

Supplementary Table 1. Demographics and Measurements of Discovery a

Short name	Full name
Discovery cohorts	
ADH	The National Longitudinal Study of Adolescent to Adult Health
ALSPAC	Avon Longitudinal Study of Parents and Children
BIG	Brain Imaging Genetics
COGA	Collaborative Study on the Genetics of Alcoholism
CoLaus	CoLaus PsyCoLaus
FinnTwin	Finnish Twin Cohort
GSA	The Genetics of Sexuality and Aggression
iPSYCH	Lundbeck Foundation Initiative for Integrative Psychiatric Research
MCTFR	Minnesota Center for Twin and Family Research
PAGES	Phenomics and Genomics Sample
PGC cohorts	Psychiatric Genomics Consortium (Cardiff sample, CHOP cohort, IMAGE-I & IMAGE-J)
QIMR - 1 (16UP, 25U)	QIMR Berghofer Medical Research Institute (16Up project, Twenty-Five and Up Study)
QIMR - 2 (SS2)	QIMR Berghofer Medical Research Institute (Semi-Structured Assessment for the Genome Epidemiology of Pathological Gambling)
QIMR - 3 (GA)	QIMR Berghofer Medical Research Institute (Genetic Epidemiology of Pathological Gambling)
QIMR - 4 (T89)	QIMR Berghofer Medical Research Institute (Twin 89 Study)
QIMR - 5 (NC)	QIMR Berghofer Medical Research Institute (Nicotine Study)
S4S	Spit for Science
TEDS - 1 (Affymetrix)	Twin Early Development Study - Affymetrix
TEDS - 2 (OEE)	Twin Early Development Study - OEE
TRAILS	TRacking Adolescents' Individual Lives Survey
Independent Replication cohorts	
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
Dunedin	Dunedin Multidisciplinary Health and Development Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
E-Risk	Environmental Risk Longitudinal Twin Study
PNC	Philadelphia Neurodevelopmental Cohort
QLSCD	Quebec longitudinal study of children development
QNTS	Quebec newborn twin study

and Prediction cohorts

Study design	Ancestry	Full Sample (Cases, when applicable)				Females (%)
		N	Age (mean, SD)	Age range	% female	N
Longitudinal	European	5874	28.87(1.73)	24.75-34.09	53.0%	3111
Longitudinal birth cohort	European	2942	24.0 (0.8)	22-26	61.1	1797
Population-based	European	862	28.8 (5.2)	18-85	56.6	488
Clinically ascertained family	European	7274	37.5(14.6)	18 - 91	52.9	3849
Population-based	European	4071 (74 cases)	48.3 (8.7)	36 - 77	24.3	2199
Population-based	European/Finnish	2554 (101 cases)	38.8 (16.5)	20 - 67	45.8	69 (26 cases)
Population-based	European	2329	26.33 (4.95)	18-48	48.7	1134
Case- control	European	24819 (2155 cases)	22.58 (5.55)	11-35	20.7	446
Family study	European	5943	35.53 (8.31)	22-65	53.1	3153
Population-based	European (95%)	2480	48.2 (16.5)	18-79	45.9	1338
Case- control	European	10288 (1647 cases)	NA	NA	NA	NA
Population Family-based	European	5340	46.26 (16.22)	18-81	66.6	3557
Population Family-based	European	381	41.25 (8.88)	30-74	44.88	171
Population Family-based	European	1696	37.82 (2.28)	31-43	60.49	1026
Population Family-based	European	241	29.99 (2.43)	24-36	47.3	114
Population Family-based	European	2705 (89 cases)	44.10 (8.53)	29-74	12.36	NA
Population-based	European	2187	19.0(0.58)	18 - 32	60.2	1317
Population-based	European	1328	22.86 (.88)	21.17 - 25.14	64.2	852
Population-based	European	2366	22.84 (.90)	21.17 - 25.14	62.63	1482
Population-based adolescents	European	1360	11.4 (1.5)	NA	50.3	684
Population based Birth Cohort	European	1037	Assessed to age 45	NA	48.1	Mums Cohort
Population based Birth Cohort	European	806	Assessed to age 45	NA	48.2	Dads Cohort
Population based Birth Cohort	European	700	Assessed to age 45	NA	48.3	Low SES Cohort
Population based Birth Cohort	European	918	Assessed to age 45	NA	48.4	Rutter Cohort
Population based Birth Cohort	European	915	Assessed to age 45	NA	48.5	DSM4 Cohort
Population based Birth Cohort	European	884	Assessed to age 45	NA	48.6	Developmental Cohort
Population based Birth Cohort	European	914	Assessed to age 45	NA	48.7	External Cohort
Population based Birth Cohort	European	918	Assessed to age 45	NA	48.8	Total Cohort
Population based Birth Cohort	European	908	Assessed to age 45	NA	48.9	Total Adolescent Cohort
Population based Birth Cohort	European	906	Assessed to age 45	NA	48.10	Any Cohort
Population based Birth Cohort	European	908	Assessed to age 45	NA	48.11	Any Adolescent Cohort
Population based Birth Cohort	European	906	Assessed to age 45	NA	48.12	Partner Cohort
Twins Birth Cohort	European	2232	Assessed to age 18	NA	51.1	(TotCE)
Twins Birth Cohort	European	1982	Assessed to age 18	NA	51.2	(crimcr)
Twins Birth Cohort	European	1857	Assessed to age 18	NA	51.3	(anyCE)
Twins Birth Cohort	European	1982	Assessed to age 18	NA	51.4	(totexte)
Twins Birth Cohort	European	1982	Assessed to age 18	NA	51.5	(lowsc)
Twins Birth Cohort	European	1999	Assessed to age 18	NA	51.6	(EXTC)
Twins Birth Cohort	European	1863	Assessed to age 18	NA	51.7	(asbmn)
Twins Birth Cohort	European	1993	Assessed to age 18	NA	51.8	(asbfm)
Twins Birth Cohort	European	1985	Assessed to age 18	NA	51.9	(parent)
Twins Birth Cohort	European	1993	Assessed to age 18	NA	51.10	(aspm)
Twins Birth Cohort	European	1993	Assessed to age 18	NA	51.11	(aspfm)
Population-based	European	4201	13.6 (3.6)	8 to 21	49.6	2082
Developmental Populati	European	599	19.0 (0.253)	18.6-19.6	60.43	362
Developmental Populati	European	341	19.9 (0.409)	19.1-22.2	52.5	179

only	Males only		Controls (when applicable)				
	Age (mean, SD)	N	Age (mean, SD)	N	Age (mean, SD)	Age range	% female
	28.75(1.73)	2763	29.01(1.73)	NA	NA	NA	NA
	24.0 (0.8)	1145	24.1 (0.8)	NA	NA	NA	NA
	29.4 (5.7)	374	27.7 (4.2)	NA	NA	NA	NA
	37.6 (14.5)	3425	37.4 (14.8)	NA	NA	NA	NA
	55.9 (11.5)	1872	54.5 (11.4)	3997	55.4 (11.5)	35 - 87	54.6
	35.9 (16.3)	1385 (75 cases)	41.3 (16.4)	2453	39 (16.6)	20 - 55	46.6
	26.30 (5.16)	1195	26.36 (4.75)	NA	NA	NA	NA
	23.01 (4.98)	1709	22.47(5.69)	22,664	22.87 (6.65)	11-35	49%
	35.02 (7.77)	2790	36.09 (8.85)	NA	NA	NA	NA
	45.6 (16.1)	1142	51.2 (16.4)	NA	NA	NA	NA
	NA	NA	NA	8,641	NA	NA	NA
	46.75 (16.03)	1783	45.29 (16.55)	NA	NA	NA	NA
	41.9 (9.71)	210	41.13 (8.16)	NA	NA	NA	NA
	37.89 (2.32)	670	37.7 (2.22)	NA	NA	NA	NA
	29.79 (2.47)	127	30.17 (2.38)	NA	NA	NA	NA
	NA	78	48.85 (10.13)	2616	48.36 (9.97)	18-81	63.84
	19.0 (0.42)	870	19.1 (0.75)	NA	NA	NA	NA
	22.83 (0.91)	476	22.9 (.83)	NA	NA	NA	NA
	22.84 (0.90)	884	22.85 (.90)	NA	NA	NA	NA
	11.4 (1.5)	676	11.4 (1.4)	NA	NA	NA	NA
Diagnostic and Stati OLS Regression							Caspi A (2020). Longitudinal assessment of mental health and substance use in the Dunedin Study.
Diagnostic and Stati OLS Regression							Caspi A (2020). Longitudinal assessment of mental health and substance use in the Dunedin Study.
Rutter Child Scale (I) OLS Regression							Wright, BR., et al. Low Self-Control, Social Bond, and Delinquency: A Test of the Self-Control Theory of Crime.
Rutter Child Scale (I) OLS Regression							Wright, BR., et al. Low Self-Control, Social Bond, and Delinquency: A Test of the Self-Control Theory of Crime.
Diagnostic and Stati OLS & Poisson							Diagnostic and Statistical Manual of Mental Disorders (5th ed.). Washington, DC: American Psychiatric Association.
DSM IV CD four cl: Tukey HSD							Ogden CL. (2007). Prediction of differential adult health outcomes from childhood obesity: A review of the literature.
Diagnostic and Stati OLS Regression							Caspi A (2020). Longitudinal assessment of mental health and substance use in the Dunedin Study.
Central computer sy Negative Binoimial Regression							NA
Central computer sy Negative Binoimial Regression							NA
Central computer sy OLS & Poisson							NA
Central computer sy OLS & Poisson							NA
Dunedin Study Abu: OLS Regression							Bourassa, K. J., (2020). Intimate Partner Violence and Mental Health: A Review of the Literature.
Diagnostic and Stati Negative Binomial Regression with Sandwic							Wertz, J, (2018). From Childhood Conduct Problems to Adult Mental Health: A Review of the Literature.
UK Police National Negative Binomial Regression with Sandwic							NA
Diagnostic and Stati Logistic Regression GEE							Wertz, J, (2018). From Childhood Conduct Problems to Adult Mental Health: A Review of the Literature.
DSM symptoms of a Logistic Regression GEE & PLM And Twin I							Schaefer JD, (2018). Adolescent victimization and mental health: A review of the literature.
Composite score der Logistic Regression GEE & PLM And Twin I							NA
DSM symptoms of a Logistic Regression GEE & PLM And Twin I							DSM symptoms of alcohol dependence, cannabis use, and other substance use disorders.
Achenbach's Child I Logistic Regression PLM							Wertz J, Z (2016). The aetiology of pervasive versus specific conduct problems: A review of the literature.
Achenbach's Child I Logistic Regression PLM							Wertz J, Z (2016). The aetiology of pervasive versus specific conduct problems: A review of the literature.
Young Adult Self-R Logistic Regression PLM							Achenbach, T. M. (1997). Manual for the young adult self-report form and profile.
Young Adult Self-R Logistic Regression PLM							Achenbach, T. M. (1997). Manual for the young adult self-report form and profile.
Young Adult Self-R Logistic Regression PLM							Achenbach, T. M. (1997). Manual for the young adult self-report form and profile.
	13.9 (3.5)	2119	13.3 (3.6)	N/A	N/A	N/A	N/A
	19 (0.251)	237	19.1 (0.256)	NA	NA	NA	NA
	19.9 (0.446)	162	19.9(0.362)	NA	NA	NA	NA

Antisocial measure

Violent = usedweapon+gangfight+seriousfight+shootstab+pulledweapon+c

Total score for all antisocial behaviour items - participants were asked 16 q

raw scores of Reactive-Proactive Aggression Questionnaire (RPQ)

Count of the number of antisocial personality disorder Criterion A criteria

Presence of antisocial personality disorder

Anti-social personality disorder diagnosis (yes/no)

Aggressive behavior mean score (14 items on a 5-point Likert scale)

NA

Count of the number of antisocial personality disorder criteria (ranges from 0 to

NA

NA

Aggression (total sum score); if the same individual had responded several

Count of the number of antisocial personality disorder behaviours

Count of the number of antisocial personality disorder behaviours

Count of the number of antisocial personality disorder behaviours

Having been arrested

Antisocial behavior was measured with the following three items from the

Count of the number of antisocial personality disorder criteria

Count of the number of antisocial personality disorder criteria

Antisocial Behavior Questionnaire (28 items on a 5-point scale)

mental health disorders and comorbidities across 4 decades among participants in

mental health disorders and comorbidities across 4 decades among participants in

Journal of Abnormal Psychology, and Crime, Criminology 37(3): 479-514

Journal of Abnormal Psychology, and Crime, Criminology 37(3): 479-514

Disorders (DSM-IV)

mental health burden by conduct problem subtypes in males. Archives of General

mental health disorders and comorbidities across 4 decades among participants in

Loneliness and Lower Relationship Quality Are Associated With Faster Biological Aging
Pathways to Poor Functioning at Age 18 Years: Examining Explanations in a Lon

Pathways to Poor Functioning at Age 18 Years: Examining Explanations in a Lon
gitudinal study of early-adult psychopathology: Approaching causal inference using a longitu

dependence, conduct disorder, ADHD, as well as symptoms of tobacco dep

Developmental and situational antisocial behaviours: a multiple-informant longitudinal coho

Developmental and situational antisocial behaviours: a multiple-informant longitudinal coho

Developmental self-report and young adult behavior checklist. Burlington, VT: Univer

Developmental self-report and young adult behavior checklist. Burlington, VT: Univer

Developmental self-report and young adult behavior checklist. Burlington, VT: Univer

Latent variable of CD symptoms (N = 4142)

7 items related to conduct disorder, delinquency and more broadly antisoci

20-item self-report questionnaire to measure antisocial behavior.

Table S1. Demographics & Measurements of participating cohorts		Sample QC
Instrument	Analysis	Call rate
Addhealth Survey questions	SUGEN	≥90%
Battery of items from the Edinburgh Study of Youth Tra	Linear regression	≥95%
Reactive-Proactive Aggression Questionnaire (RPQ)	Linear Regression	≥ 0.98
Semi-structured assessment for the Genetics of	GCTA-MLMA	
Semi-structured Diagnostic Interview for Genetic Studie	Logistic Regression	≥90%
Semi-structured assessment for genetics of alcoholism (S	Linear mixed model regressio	>98% (batch
The verbal and physical aggression items from the Buss-	Linear Regression	≥98%
ICD10 diagnosis codes (F91.x and F90.1)	Logistic regression	≥95%
Structured Clinical Interview for DSM-III-R Disorders	model based association anal	NA
Buss-Durkee Hostility Inventory: Subscale Assault (Bus	Linear regression	≥96-99%
	NA	NA
Buss-Perry Aggression Questionnaire	Linear mixed model regressio	≥95%
Questionnaire based on DSM-IV criteria for ASPD (iten	Linear mixed model regressio	≥95%
Questionnaire based on DSM-IV criteria for ASPD (iten	Linear mixed model regressio	≥95%
Questionnaire based on DSM-IV criteria for ASPD (iten	Linear mixed model regressio	≥95%
Have you been arrested since your 18th birthday? [note	Linear mixed model regressio	≥95%
Items adapted from the Semi-structured assessment for	Linear Regression	
Adapted by ALSPAC from the Edinburgh Study of Yout	Linear Regression	≥95%
Adapted by ALSPAC from the Edinburgh Study of Yout	Linear Regression	≥95%
Based on: Moffitt, T.E. & Silva, P. (1988). Self-reported	Linear Regression	≥95%
<p>the Dunedin birth cohort study. JAMA Netw Open. 2020;3(4):e203221</p> <p>the Dunedin birth cohort study. JAMA Netw Open. 2020;3(4):e203221</p>		
<p>Psychiatry Apr;64(4):476-84, Odgers CL, (2008). Female and male antisocial trajectories: From c</p> <p>the Dunedin birth cohort study. JAMA Netw Open. 2020;3(4):e203221</p>		
<p>ging. Psychology and Aging. Advance online publication</p> <p>itudinal Cohort Study. Journal of the American Academy of Child and Adolescent Psychiatry, 57,</p>		
<p>itudinal Cohort Study. Journal of the American Academy of Child and Adolescent Psychiatry, 57,</p> <p>idinal twin study to rule out non-causal explanations. Clinical Psychological Science, 6(3), 352-371.</p>		
<p>pendence assessed with the Fagerström Test for Nicotine Dependence</p> <p>rt study. Child Development 87: 312-325</p> <p>rt study. Child Development 87: 312-325</p> <p>sity of Vermont Department of Psychiatry.</p> <p>sity of Vermont Department of Psychiatry.</p> <p>sity of Vermont Department of Psychiatry.</p>		
GOASSESS (i.e., computerized KSADS-PL) - Conduct	Structural equation	≥98%
a subset of the MIA questionnaire	Linear Regression	≥95%
ASEBA questionnaire	Linear Regression	≥95%

Other exclusions

Non european, missing all phenotyping data

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch
NA

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

1) Heterozygosity; 2) Gender mismatches; 3) Ethnic outliers

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

1) non-calls in more than 5000 markers; 2) GenCall_50 s

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

NA

1) Genetic ancestry outliers; 2) Gender mismatches; 3) D

1) Genetic ancestry outliers; 2) Gender mismatches; 3) D

1) Genetic ancestry outliers; 2) Gender mismatches; 3) D

1) Genetic ancestry outliers; 2) Gender mismatches; 3) D

1) Genetic ancestry outliers; 2) Gender mismatches; 3) D

NA

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

childhood origins to adult outcomes. Developmental Psych

54-60.

54-60.

1) Ancestral outliers; 2) Gender mismatches; 3)

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

1) Ethnic outliers; 2) Heterozygosity; 3) Gender mismatch

References

- 1) Boyd et al. *Int J Epidemiol* 2013; 42: 111-127; 2) Fraser et al. *Int J Epidemiol* 2013; 42
- Franke, B., Vasquez, A.A., Veltman, J.A., Brunner, H.G., Rijpkema, M., and Fernández, G
- 1) Begleiter, H. et al. The Collaborative Study on the Genetics of Alcoholism. *Alcohol*
- Preisig, M., Waeber, G., Vollenweider, P. *et al. BMC Psychiatry* **9**, 9 (2009). <https://doi.org/10.1186/14752875-9-9>
- hes; 4) Duplicates
- Johansson et al. *Twin Res Hum Genet* 2013
- Demontis et al. *Nature Communications*, 2021 in press,
- Miller, M. B., Basu, S., Cunningham, J., Eskin, E., Malone, S. M., Oetting, W. S., ... & Mc
- 1) Rujescu D, Hartmann AM, Giegling I, et al. Genome-Wide Association Study in Vestibu
- NA
- Buss & Perry (1992). The Aggression Questionnaire. *Journal of Personality and Social Psychology* 63(2):270-280.
- Madden et al. (1997). Nicotine withdrawal in women. *Addiction*. 92(7):889-902.
- Slutske et al. (2009). The Australian twin study of gambling (OZ-GAM): Rationale, sample
- Knopik et al. (2004). Genetic effects on alcohol dependence risk: Re-evaluating the importance of the 7q31 locus. *Alcoholism: Clinical and Experimental Research* 28(12):1945-1952.
- Saccone et al. (2007). Genetic linkage to chromosome 22q12 for a heavy-smoking quantitative trait locus. *Alcoholism: Clinical and Experimental Research* 31(12):2145-2152.
- 1) Dick DM et al. Spit for Science: Launching a longitudinal study of genetic and environmental influences on substance use and mental health
- McAra L, McVie S (2010) Youth crime and justice: key messages from the Edinburgh study. *Journal of Child Psychology and Psychiatry* 51(12):1227-1235.
- McAra L, McVie S (2010) Youth crime and justice: key messages from the Edinburgh study. *Journal of Child Psychology and Psychiatry* 51(12):1227-1235.
- Huisman M, Oldehinkel AJ, Winter Ad, et al. *Int J Epidemiol*. 2008;37(6):1227-1235

Psychopathology Spring;20(2):673-716

Satterthwaite, T. D. et al. (2016) 'The Philadelphia Neurodevelopmental Cohort: a population-based study of neurodevelopmental and psychiatric disorders. *Journal of Child Psychology and Psychiatry* 57(12):1227-1235.

Côté, S. M., Orri, M., Brendgen, M., Vitaro, F., Boivin, M., Japel, C., ... & Tremblay, R. E. (2014). The Philadelphia Neurodevelopmental Cohort: a population-based study of neurodevelopmental and psychiatric disorders. *Journal of Child Psychology and Psychiatry* 57(12):1227-1235.

Achenbach, T. M. (2014). Achenbach system of empirically based assessment (ASEBA). *Journal of Child Psychology and Psychiatry* 55(12):1227-1235.

Co-authors

Brandt Levitt, Kathleen Mullan Harris

Hannah Sallis, Marcus Munafò

Marieke Klein, Nina Roth Mota, Barbara Franke, Simon E. Fisher

1. Danielle Dick, 2. Jessica E. Salvatore, 3- Fazil Aliev 4- COGA Consortium

Analysts : Giorgio Pistis, Other researchers: Enrique Castelao, PI: Martin Preisig

Teemu Palviainen, Alyce Whipp, Eero Vuoksima, Jaakko Kaprio

Ada Johansson, Yi Lu, Patrick Jern

Ditte Demontis, Anders Børghlum

Gretchen R.B. Saunders, Scott Vrieze, Matt McGue, William G. Iacono

Dan Rujescu, Ina Giegling, Bettina Konte, Annette M. Hartmann

NA

Lucía Colodro-Conde, Brittany L Mitchell, Jose J Morosoli, Michelle K Lupton.

Lucía Colodro-Conde, Brittany L Mitchell, Jose J Morosoli, Michelle K Lupton.

Lucía Colodro-Conde, Brittany L Mitchell, Jose J Morosoli, Michelle K Lupton.

Lucía Colodro-Conde, Brittany L Mitchell, Jose J Morosoli, Michelle K Lupton.

Lucía Colodro-Conde, Brittany L Mitchell, Jose J Morosoli, Michelle K Lupton.

1. Danielle Dick, 2. Jessica E. Salvatore, 3- Fazil Aliev 4- Spit for Science

Andrea G Allegrini, Kaili Rimfeld, Jean-Baptiste Pingault, Essi Viding, Robert Plomin

Andrea G Allegrini, Kaili Rimfeld, Jean-Baptiste Pingault, Essi Viding, Robert Plomin

Nolte IM, Hartman CAH, Oldehinkel AJ, Snieder H

1.) Travis T. Mallard

Éloi Gagnon, Geneviève Morneau-Vaillancourt, Michel boivin

Éloi Gagnon, Geneviève Morneau-Vaillancourt, Michel boivin

Further considerations

Udry, Peter S. Bearman, and Kathleen Mullan Harris at the University of North Carolina at Chapel Hill, and funded by grant 1R01MH085512. Ethical approval for the study was obtained from the ALSPAC Ethics and Law Committee and the Local Research Ethics Committee. This study is a joint initiative by researchers of the Donders Centre of cognitive Neuroimaging, the Human Genetics and Cognitive Neurosciences

of Lausanne, and the Swiss National Science Foundation (grants 3200B0-105993, 3200B0-118308, 33CSCO-122661, 33CSCO-122662). Participation in FinnTwin12 has been supported by the National Institute of Alcohol Abuse and Alcoholism (grant numbers R37 AA007535, AA07728, and AA07580, AA13321, AA13320, and DA019951; American Cancer Society grant IRG-58-010-50; grants from the Academy of Finland. Genotyping was partially funded by a grant awarded to Patrick Jern from the Stiftelsen för Åbo Akademi. Genotyping for handling and statistical analysis of iPSYCH data on the GenomeDK HPC facility was provided by the Center for Genomics, DA037904, AA009367, DA005147, and DA036216.

under the Australian Government's Cooperative Research Centres Program. We acknowledge the assistance of research assistants for their participation. Thanks also to Grant Montgomery for genotypic data collection.

for their participation. Thanks also to Grant Montgomery for genotypic data collection. This study is a joint initiative by researchers of the Donders Centre of cognitive Neuroimaging, the Human Genetics and Cognitive Neurosciences of Lausanne, and the Swiss National Science Foundation (grants 3200B0-105993, 3200B0-118308, 33CSCO-122661, 33CSCO-122662).

Participation in FinnTwin12 has been supported by the National Institute of Alcohol Abuse and Alcoholism (grant numbers R37 AA007535, AA07728, AA07580, AA13321, AA13320, and DA019951; American Cancer Society grant IRG-58-010-50; grants from the Academy of Finland. Genotyping was partially funded by a grant awarded to Patrick Jern from the Stiftelsen för Åbo Akademi. Genotyping for handling and statistical analysis of iPSYCH data on the GenomeDK HPC facility was provided by the Center for Genomics, DA037904, AA009367, DA005147, and DA036216.

The authors thank Stéphane Paquin for his contribution to data analysis and genotyping procedures. Both studies were supported by grants from the Australian Government's Cooperative Research Centres Program. We acknowledge the assistance of research assistants for their participation. Thanks also to Grant Montgomery for genotypic data collection.

Study Description

at P01 HD31921 from Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), with
to take part in the study. The initial number of pregnancies enrolled is 14,541 (for these at least one questionnaire has been
ience departments of the Radboud university medical centre, and the Max Planck Institute for Psycholinguistics. The Cogni

3CS30-139468, 33CS30-148401 and 33CS30_177535)

A012502, K05 AA000145, and R01 AA009203 to R. J. Rose and R01 AA015416 and K02 AA018755 to D. M. Dick) and t
ni Foundation. We are very grateful to all twins and siblings who have participated in the Genetics of Sexuality and Aggressi
omics and Personalized Medicine and the Centre for Integrative Sequencing, iSEQ, Aarhus University, Denmark (grant to /

nts Natalie Garden and Reshika Chand and the support staff of the Genetic Epidemiology Laboratory at QIMR Berghofer M
Thanks also to Grant Montgomery for genotypic data collection.

om the Australian National Health and Medical Research Council. We greatly thank the twins for their participation. Thanks

und previously G0901245), with additional support from the USNational Institutes of Health (AG046938) and the European
und previously G0901245), with additional support from the USNational Institutes of Health (AG046938) and the European
jmegen, and the Parnassia Bavo group, all in the Netherlands. TRAILS has been financially supported by various grants from

orted by grants from the Fonds de recherche du Quebec – Societe et Culture (FRQ-SC), Fonds de recherche du Quebec – Sa
orted by grants from the Fonds de recherche du Quebec – Societe et Culture (FRQ-SC), Fonds de recherche du Quebec – Sa

biobanking and Biomolecular Resources Research Infrastructure (Netherlands) (BBMRI-NL) and the Hersenstichting Nederl

twins and their families, school principals, and teachers who participated in the FinnTwin12 study, and the FinnTwin12 dat

me and interest in our research. Data collections from 25UP and GHA were made possible by multiple grants from NHMR

ion programme under the Marie Skłodowska-Curie grant agreement no. 721567. R.P. is supported by a Medical Research C
ion programme under the Marie Skłodowska-Curie grant agreement no. 721567. R.P. is supported by a Medical Research C
011; ZonMW Brainpower grant 100-001-004; ZonMw Risk Behavior and Dependence grants 60-60600-97-118; ZonMw C

Humanities Research Council of Canada (SSHRC), the Canadian Institutes for Health Research (CIHR), and Ste. Justine Ho
Humanities Research Council of Canada (SSHRC), the Canadian Institutes for Health Research (CIHR), and Ste. Justine Ho

and. In particular, the authors would also like to acknowledge grants supporting their work from the Netherlands Organization

for Scientific Research (Vernieuwingsimpuls) and the Netherlands Organization for Scientific Research (Vernieuwingsimpuls) collection staff for all their hard work. A second source of ASPD data was from SSAGA interviews conducted in the Netherlands

and the John Templeton Foundation (Genetics and Human Agency Project). We also thank David Smyth for his assistance

with the data analysis. This work was supported by funding from the National Health Research Development Council (APP1069141) and the John Templeton Foundation (Genetics and Human Agency Project). We also thank David Smyth for his assistance

with the data analysis. This work was supported by funding from the National Health Research Development Council (APP1069141) and the John Templeton Foundation (Genetics and Human Agency Project). We also thank David Smyth for his assistance

ion for Scientific Research (NWO), i.e. the NWO Brain & Cognition Excellence Program (grant 433-09- 229) and the Vici

otine Addiction Genetics study Finnish study site. We warmly thank the participating twin pairs and their family members

and Scott Gordon for IT support and Richard Parker as project manager. The Prospective Imaging Study of Aging: Genes, I

3B-MaGW 480-07-001; Social Sciences Council project grants GB-MaGW 452-04-314 and GB-MaGW 452-06-004; NWC

t Program, Universite Laval, and Universite de Montreal. The QLSCD was supported by funding from the Gouvernement du
t Program, Universite Laval, and Universite de Montreal. The QLSCD was supported by funding from the Gouvernement du

Innovation Program (grant 016–130-669 to BF). Additional support is received from the European Community's Seventh F

for their contribution. We would like to express our appreciation to the skilled study interviewers A-M Iivonen, K Karhu, H

Brain and Behaviour (PISA) is funded by a National Health and Medical Research Council (NHMRC) Boosting Dementia F

o large-sized investment grant 175.010.2003.005; NWO Longitudinal Survey and Panel Funding 481-08-013 and 481-11-0

u Quebec, the Lucie and Andre Chagnon Foundation, the Robert-Sauve Research Institute of Health and Security at Work, s
u Quebec, the Lucie and Andre Chagnon Foundation, the Robert-Sauve Research Institute of Health and Security at Work, s

01; NWO Vici 016.130.002 and 453-16-007/2735; NWO Gravitation 024.001.003), the Dutch Ministry of Justice (WODC,

Supplementary Table 2. Details of the genotyping, quality control and imputation of the cohorts included

Discovery cohorts	Genotyping Platform	Inclusion criteria			
		MAF	Call rate	HWE P-value	SNPs that met QC criteria
ALSPAC	Illumina Human Hap 550-quad	≥1%	≥95%	≥10 ⁻⁷	477,482
ADH	Illumina HumanOmni1-Quad	>=0.5	>=90%	>=5*10 ⁻⁵	468501
Brain Imaging Genetics (BIG)	Affymetrix6.0	≥1%	≥0.98	≥10 ⁻⁶	658,108
	OmniExpress	≥1%	≥0.98	≥10 ⁻⁶	665,849
	PsychChip	≥1%	≥0.98	≥10 ⁻⁶	292,548
COGA	Genotyped using multiple platforms	≥1%	≥95%	NA	785,451
CoLaus PsyCoLaus	Affymetrix 500K	≥1%	≥90%	≥10 ⁻⁶	375,108
FinnTwin	Illumina Human610-Quad & Illumina Human670-Quad	Cust>1%	>97.5%	(t>10 ⁻⁶	475 526 (batch1), 239 894 (ba
GSA (Genetics of Sexuality ar	Illumina GSA Beadchip (Illumina GSA Arrays "Infinium iS	NA	≥98%	≥10 ⁻⁶	675,288
	See Supplementary Table 10, Demontis et al. Nature				
iPSYCH	Communications, 2020, in press	≥1%	≥95% (iP	P > 10 ⁻⁶ in coi	8,285,688
MCTFR	Illumina Human660W-quad array	≥1%	≥99%	≥10 ⁻⁷	526,195
PAGES	Illumina HumanOmniExpress 12 (566), Illumina HumanHa	≥1%	≥96-99%	≥10 ⁻⁶	7,961,053
	See Supplementary Table 10, Demontis et al. Nature				
PGC cohorts	Communications, 2020, in press	≥1%	≥95% (iP	P > 10 ⁻⁶ in coi	8,285,688
QIMRB	HapMap-based, all GSA, and 1000G-based chips	≥1%	≥95%	≥10 ⁻⁶	280,164 for HapMap participa
Spit for Science	Axiom Biobank Array	NA	≥95%	NA	560,138
TEDS 1	AffymetrixGeneChip 6.0	≥0.5%	≥98%	≥10 ⁻⁵	559,772
TEDS 2	HumanOmniExpressExome-8v1.2	≥0.5%	≥98%	≥10 ⁻⁵	635,269
TRAILS	Illumina HumanCytoSNP v2	≥1%	≥95%	≥10 ⁻⁶	258,617
Independent Replication cohorts					
Dunedin	Illumina OmniExpress 12v1.1 BeadChip	≥1%	≥98%	≥10 ⁻⁴	6,346,241
E-Risk	Illumina OmniExpress 24v1.1 BeadChip	≥1%	≥98%	≥10 ⁻⁴	4,581,674
PNC	Human1M-Duov3_B, HumanOmniExpressExome-8v1_A, HumanOmniExpress-12v1_A, HumanOmniExpress-12v1-1_B, Human610-Quadv1_B, BDCHP-1X10-HUMANHAP550, HumanHan550v3 A	≥1%	≥95%	≥1E-6	3,615,185
QNTS	Illumina PsychArray-24	>1%	>98%	≥10 ⁻⁶	226,583
QLSCD	Illumina PsychArray-24	>1%	>98%	≥10 ⁻⁶	277194

in the genome-wide association meta-analyses and for the independent prediction cohorts.

Imputation

<i>Imputation software</i>	<i>Imputation quality</i>	<i>Imputation reference</i>	<i>Analysis software</i>
Michigan Imputation serv	NA	HRC	SNPTEST
Michigan imputation serv	$r^2 \geq 0.4$	HRC	SUGEN
SHAPEIT, IMPUTE	no INFO filter prior	1KG_Phase3_v5a (EUR)	PLINK
SHAPEIT, IMPUTE	no INFO filter prior	1KG_Phase3_v5a (EUR)	PLINK
SHAPEIT, IMPUTE	no INFO filter prior	1KG_Phase3_v5a (EUR)	PLINK
IMPUTE	info limitation used	HRC	GCTA
minimac3	$R^2 > 0.3$	HRC	EPACTS
Minimac3	NA	HRC	RVTESTS
EAGLE2 for prephasing,	1NA	HRC	GCTA
IMPUTE2	infoscore > 0.8	1000g phase 3	PLINK
Minimac4 (Michigan imp)	all variants are inclu	HRC	GCTA (mlma)
IMPUTE2	INFO > 0.6	1,000 Genomes reference panel phase 1	PLINK
IMPUTE2	infoscore > 0.8	1000g phase 3	PLINK
Michigan Imputation Serv	n/a	HRC 1.1.	SAIGE
IMPUTE	info limitation used	HRC	PLINK
PBWT on Sanger Imputati	info ≥ 0.4	HRC	PLINK
PBWT on Sanger Imputati	info ≥ 0.4	HRC	PLINK
Michigan Imputation Serv	not applied	HRC	SNPTEST
IMPUTE v2.3.1	≥ 0.9	1000G phase 3	R version 3.6.3
IMPUTE v2.3.1	≥ 0.9	1000G phase 3	R version 3.6.3
Minimac3 via the	$\geq .60$	1000 Genomes Project	Polygenic score analyses were
Michigan Imputation Server		Phase 3v5 (EUR subsample)	performed in R using lavaan
IMPUTE2	INFO $\geq .8$	1000 GENOMES	SHAPEIT2
IMPUTE2	INFO $\geq .8$	1000 GENOMES	SHAPEIT2

Supplementary Table 3. Summary Statistics of the combined-sex GWAS me

Note: Summary statistics were generated using linear or logistic regression models of SNP association:

<i>SNP(RS)</i>	<i>SNP(CHR:BP)</i>	<i>CHR</i>	<i>BP</i>	<i>Allele1</i>	<i>Allele2</i>	<i>Freq1</i>
rs12536335	7:114043159	7	114043159	a	g	0.5533
rs12705961	7:114017246	7	114017246	a	g	0.4934
rs4730636	7:114032019	7	114032019	t	c	0.4927
rs2396726	7:114021410	7	114021410	t	c	0.4936
rs12534017	7:114039451	7	114039451	a	c	0.4934
rs12705960	7:114015707	7	114015707	a	c	0.4927
rs10953758	7:114029863	7	114029863	a	g	0.4935
rs7779476	7:114023285	7	114023285	a	c	0.4954
rs13232831	7:114025385	7	114025385	a	c	0.4949
rs12667224	7:114024316	7	114024316	a	g	0.4949
rs1818998	7:114030784	7	114030784	t	c	0.4932
rs66571810	7:114021870	7	114021870	t	c	0.5941
rs13225495	7:114023767	7	114023767	a	g	0.4929
rs10244257	7:114023482	7	114023482	t	c	0.5336
rs35624276	7:114040103	7	114040103	a	g	0.4841
rs7783012	7:114116881	7	114116881	a	g	0.4965
rs12537376	7:114025053	7	114025053	a	g	0.5916
rs2396753	7:114148331	7	114148331	a	c	0.4950
rs2189015	7:114148243	7	114148243	a	g	0.4933
rs12977121	19:1958308	19	1958308	a	g	0.7320
rs6969376	7:114160871	7	114160871	a	g	0.4952
rs2189010	7:114119430	7	114119430	a	g	0.4964
rs9969232	7:114158954	7	114158954	a	g	0.4971
rs1818999	7:114031014	7	114031014	t	c	0.4955
rs6942634	7:114037958	7	114037958	a	g	0.4866
rs7232069	18:40158358	18	40158358	a	g	0.4956
rs7231626	18:40158227	18	40158227	t	c	0.4681
rs7230640	18:40154420	18	40154420	t	c	0.5023
rs1852470	7:114027269	7	114027269	t	g	0.4991
rs6466488	7:114145525	7	114145525	a	g	0.4962
rs10262462	7:114180062	7	114180062	a	g	0.4931
rs4243264	18:40157538	18	40157538	a	g	0.4957
rs7458242	7:114184098	7	114184098	a	g	0.4953
rs1015511	7:114142250	7	114142250	a	g	0.4930
rs4890406	18:40160119	18	40160119	a	c	0.4681
rs4243262	18:40157434	18	40157434	t	c	0.4682
rs4730633	7:113992074	7	113992074	t	g	0.4900
rs7238529	18:40161451	18	40161451	a	g	0.5025
rs12561922	1:169265794	1	169265794	a	g	0.0455
rs2982468	1:169090971	1	169090971	a	t	0.0472
rs1859100	7:114194615	7	114194615	t	g	0.4929
rs12074013	1:169133621	1	169133621	t	c	0.0446
rs12065030	1:169258201	1	169258201	t	c	0.0450
rs1476535	7:114071035	7	114071035	t	c	0.4922
rs1916980	7:113995615	7	113995615	a	g	0.4947
rs12092506	1:169405517	1	169405517	a	g	0.8975
rs9964460	18:40156291	18	40156291	a	g	0.4208

rs10262103	7:114091844	7	114091844 a	c	0.4887
rs12672683	7:113998486	7	113998486 t	c	0.4674
rs12063719	1:169272982	1	169272982 a	g	0.9054
rs2690826	7:113988537	7	113988537 a	g	0.4948
rs113069887	1:169251394	1	169251394 t	c	0.9038
rs2894699	7:114059156	7	114059156 t	c	0.4353
rs10919157	1:169355380	1	169355380 a	g	0.0422
rs2140615	7:113984768	7	113984768 a	g	0.4873
rs2049603	7:113986650	7	113986650 a	g	0.4938
rs12088672	1:169248237	1	169248237 c	g	0.0448
rs10800430	1:169276782	1	169276782 a	g	0.9041
rs68072647	17:9127907	17	9127907 a	g	0.5114
rs12058325	1:169264037	1	169264037 a	g	0.9040
rs3766088	1:169268692	1	169268692 a	t	0.0446
rs12073439	1:169284482	1	169284482 t	c	0.9040
rs12061069	1:169250293	1	169250293 t	c	0.0459
rs12067351	1:169279758	1	169279758 a	t	0.0446
rs12074966	1:169431599	1	169431599 a	g	0.9066
rs1527146	7:113987281	7	113987281 t	g	0.4952
rs10800445	1:169374793	1	169374793 a	g	0.0443
rs114133365	1:169270540	1	169270540 c	g	0.0446
rs12076519	1:169283540	1	169283540 a	g	0.0446
rs12059944	1:169449870	1	169449870 c	g	0.9052
rs3766092	1:169273400	1	169273400 a	g	0.9040
rs12083249	1:169111592	1	169111592 a	g	0.9038
rs4727799	7:114110568	7	114110568 t	c	0.4719
rs12082748	1:169116247	1	169116247 t	g	0.9038
rs10919109	1:169213599	1	169213599 a	g	0.0466
rs78292951	1:169130823	1	169130823 t	c	0.0426
rs11805562	1:169292916	1	169292916 a	c	0.9040
rs76692040	1:169295689	1	169295689 t	c	0.9040
rs78266198	1:169346615	1	169346615 a	g	0.0447
rs76288029	1:169117488	1	169117488 c	g	0.0449
rs76215458	2:81756214	2	81756214 a	c	0.0917
rs77538715	1:169290007	1	169290007 t	c	0.9040
rs12059132	1:169401824	1	169401824 a	g	0.0445
rs3766052	1:169126031	1	169126031 a	t	0.0447
rs79899534	1:169188861	1	169188861 t	c	0.0449
rs12063863	1:169269557	1	169269557 a	g	0.0457
rs113298876	1:169280579	1	169280579 a	c	0.0447
rs10919159	1:169363420	1	169363420 a	g	0.0442
rs12565852	1:169369330	1	169369330 a	t	0.0442
rs10919098	1:169189422	1	169189422 a	t	0.0450
rs2152269	9:11375023	9	11375023 a	g	0.4226
rs10919152	1:169335035	1	169335035 a	g	0.0448
rs80032696	1:169444738	1	169444738 t	c	0.0434
rs10919097	1:169188958	1	169188958 a	t	0.0450
rs75134881	1:169186127	1	169186127 t	c	0.9036
rs10919104	1:169209118	1	169209118 a	g	0.9037
rs12070031	1:169213823	1	169213823 a	g	0.0450
rs2275300	1:169337515	1	169337515 t	g	0.0446

rs11487548	1:169379397	1	169379397 t	c	0.0443
rs112534219	1:169322993	1	169322993 a	g	0.0451
rs3766082	1:169215068	1	169215068 a	t	0.9036
rs10919100	1:169190401	1	169190401 t	c	0.0450
rs12081562	1:169176266	1	169176266 a	g	0.9037
rs12063056	1:169264107	1	169264107 a	g	0.0457
rs76722603	1:169321442	1	169321442 a	g	0.0446
rs3765227	1:169437153	1	169437153 a	c	0.0432
rs57776592	1:169268023	1	169268023 a	g	0.9044
rs12071122	1:169191749	1	169191749 a	c	0.0463
rs12097260	1:169317195	1	169317195 t	c	0.0446
rs10919151	1:169334096	1	169334096 a	g	0.9040
rs12061405	1:169208368	1	169208368 a	g	0.0450
rs12097682	1:169333438	1	169333438 a	g	0.9040
rs10919156	1:169345054	1	169345054 a	g	0.9041
rs3753298	1:169176899	1	169176899 a	g	0.0450
rs80215043	1:169193763	1	169193763 t	c	0.9037
rs75487543	1:169339382	1	169339382 a	g	0.9040
rs75967403	1:169173497	1	169173497 t	g	0.9037
rs12074492	1:169215363	1	169215363 c	g	0.9040
rs12061080	1:169332848	1	169332848 a	g	0.0446
rs78524832	1:169344262	1	169344262 t	c	0.0443
rs12060959	1:169211168	1	169211168 a	t	0.9042
rs12071630	1:169421023	1	169421023 a	g	0.0441
rs10047168	1:169343533	1	169343533 a	g	0.0443
rs78967023	1:169419543	1	169419543 c	g	0.9059
rs12081030	1:169350003	1	169350003 t	c	0.0443
rs35144581	1:169183588	1	169183588 t	c	0.0462
rs3820057	1:169176732	1	169176732 t	c	0.0449
rs10800443	1:169355529	1	169355529 a	g	0.0443
rs11810815	1:169329790	1	169329790 t	c	0.9040
rs12092952	1:169389715	1	169389715 a	g	0.9057
rs12091133	1:169387826	1	169387826 a	t	0.0442
rs79478286	1:169127908	1	169127908 t	c	0.0449
rs10919110	1:169214293	1	169214293 c	g	0.0462
rs79758658	1:169387286	1	169387286 t	c	0.0442
rs12095526	1:169401827	1	169401827 a	g	0.9059
rs2280257	1:169352787	1	169352787 a	g	0.0444
rs12740226	1:169183257	1	169183257 t	c	0.9040
rs12071224	1:169191945	1	169191945 t	c	0.0462
rs80273595	1:169194147	1	169194147 a	c	0.9040
rs12094791	1:169387911	1	169387911 a	g	0.0442
rs2014519	21:22191289	21	22191289 t	c	0.6651
rs2049604	7:113990352	7	113990352 t	c	0.3614
rs11807896	1:169312751	1	169312751 t	c	0.9040
rs74967728	1:169202731	1	169202731 t	c	0.0462
rs12089602	1:169180898	1	169180898 a	t	0.0461
rs76254504	1:169182779	1	169182779 a	t	0.0461
rs113426965	1:169406545	1	169406545 t	c	0.9059
rs10465577	1:169398013	1	169398013 a	c	0.0441
rs12062884	1:169209513	1	169209513 a	g	0.0462

rs10800436	1:169328198	1	169328198 a	g	0.0451
rs78270478	1:169453555	1	169453555 a	g	0.0434
rs11802239	1:169128802	1	169128802 t	c	0.0449
rs7228101	18:40166871	18	40166871 a	g	0.5227
rs10268637	7:114074257	7	114074257 t	c	0.4535
rs74317850	1:169169924	1	169169924 t	g	0.9036
rs2014533	21:22191361	21	22191361 c	g	0.3265
rs28534444	7:114075140	7	114075140 t	c	0.5346
rs41272453	1:169412011	1	169412011 t	g	0.9059
rs1892647	21:27008248	21	27008248 a	t	0.5028
rs3766064	1:169157919	1	169157919 a	g	0.0449
rs62135622	2:37772478	2	37772478 t	c	0.9169
rs12705959	7:113998246	7	113998246 t	c	0.4591
rs78483993	1:169410428	1	169410428 a	g	0.0441
rs7544446	1:169256524	1	169256524 t	c	0.9039
rs10919079	1:169133805	1	169133805 t	c	0.9037
rs3737683	1:169438180	1	169438180 a	g	0.9061
rs60011235	1:169254727	1	169254727 t	c	0.9039
rs55971385	2:161928268	2	161928268 t	c	0.7936
rs7515326	1:169263546	1	169263546 a	g	0.9039
rs56070685	2:161928267	2	161928267 t	g	0.7941
rs12067139	1:169254507	1	169254507 t	c	0.0464
rs78568010	1:169133141	1	169133141 a	g	0.0448
rs10959903	9:11537447	9	11537447 t	c	0.7254
rs442352	7:133825945	7	133825945 t	c	0.6344
rs6497026	15:93673292	15	93673292 a	g	0.2413
rs7030303	9:11490767	9	11490767 t	c	0.7328
rs72872299	2:161881944	2	161881944 a	g	0.6659
rs78481844	21:37675771	21	37675771 a	g	0.9244
rs34169553	2:161879784	2	161879784 a	g	0.3098
rs34494741	2:161883435	2	161883435 a	c	0.3094
rs12990642	2:161882517	2	161882517 a	g	0.3096
rs35749916	2:161883324	2	161883324 t	c	0.6660
rs2152268	9:11380849	9	11380849 a	g	0.5046
rs78277513	1:169414777	1	169414777 a	c	0.9058
rs2014265	7:114080336	7	114080336 t	g	0.5353
rs2079070	7:114126432	7	114126432 c	g	0.5176
rs142890703	13:20728215	13	20728215 a	g	0.0238
rs13287695	9:11563084	9	11563084 a	g	0.7549
rs7572342	2:161884081	2	161884081 a	c	0.3095
rs12977259	19:1951123	19	1951123 a	g	0.4359
rs60603579	7:114036155	7	114036155 a	g	0.3881
rs35962414	2:161880800	2	161880800 t	c	0.6648
rs4664393	2:161884425	2	161884425 a	t	0.3095
rs175867	6:151224490	6	151224490 t	g	0.0536
rs6980093	7:114162740	7	114162740 a	g	0.4810
rs10246733	7:114075686	7	114075686 a	c	0.5391
rs2826545	21:22192884	21	22192884 a	g	0.4766
rs148628581	5:135633502	5	135633502 a	g	0.9052
rs2357982	2:161886103	2	161886103 c	g	0.6659
rs260620	2:109626929	2	109626929 t	c	0.2193

rs1999703	9:11373308	9	11373308 a	c	0.5047
rs6474664	9:11557454	9	11557454 a	g	0.5826
rs4348477	8:125251894	8	125251894 t	c	0.4999
rs58203599	1:38947394	1	38947394 t	c	0.0346
rs10225528	7:114107594	7	114107594 c	g	0.5570
rs7034132	9:11382348	9	11382348 a	g	0.4663
rs2690833	7:113997624	7	113997624 t	c	0.4637
rs36101713	19:1950566	19	1950566 t	c	0.5558
rs2184548	9:11380718	9	11380718 t	c	0.4667
rs34273969	4:181798014	4	181798014 t	c	0.4171
rs12980569	19:1955931	19	1955931 c	g	0.5391
rs727644	7:114109349	7	114109349 a	g	0.5037
rs34318825	19:1961342	19	1961342 t	c	0.5961
rs1157471	7:121195898	7	121195898 t	c	0.5785
rs16856756	2:11001859	2	11001859 t	c	0.7330
rs11177771	12:70045841	12	70045841 t	g	0.4961
rs197269	2:161908132	2	161908132 a	c	0.4953
rs11139500	9:84763025	9	84763025 t	c	0.3249
rs2107801	7:121195151	7	121195151 t	c	0.5785
rs57704564	7:121193575	7	121193575 t	g	0.5784
rs6116952	20:630898	20	630898 a	g	0.4701
rs61922025	12:12486263	12	12486263 a	g	0.1117
rs2049701	7:121197668	7	121197668 t	c	0.4061
rs4664404	2:161933850	2	161933850 a	g	0.7666
rs2189008	7:114123308	7	114123308 t	c	0.4675
rs10195283	2:161954213	2	161954213 a	t	0.4828
rs2160588	12:12487447	12	12487447 a	g	0.1119
rs57725255	12:12499023	12	12499023 t	c	0.1154
rs79542788	18:28214598	18	28214598 a	t	0.0186
rs61922026	12:12486428	12	12486428 c	g	0.8494
rs1456031	7:114296102	7	114296102 t	c	0.4923
rs60858294	7:121209686	7	121209686 t	g	0.5782
rs66647990	7:114018456	7	114018456 t	c	0.3784
rs1099663	6:167236632	6	167236632 a	g	0.5093
rs73227061	7:90578481	7	90578481 a	g	0.9775
rs28372890	12:12503519	12	12503519 a	c	0.1160
rs58109668	7:121213919	7	121213919 a	g	0.4061
rs7268200	20:630885	20	630885 a	g	0.6540
rs10249234	7:114129137	7	114129137 a	g	0.4838
rs11237295	11:77498274	11	77498274 t	c	0.2970
rs7582491	2:161929488	2	161929488 a	t	0.4921
rs61922027	12:12486444	12	12486444 t	c	0.1116
rs1989903	7:114137940	7	114137940 a	g	0.5039
rs144679328	12:12486084	12	12486084 a	g	0.8494
rs117206283	8:100545327	8	100545327 t	c	0.0246
rs17375328	12:12485292	12	12485292 t	c	0.8493
rs1358251	12:16302291	12	16302291 t	c	0.4598
rs61922028	12:12487096	12	12487096 a	c	0.8494
rs1497341	12:84007581	12	84007581 a	g	0.5059
rs1318011	2:11004489	2	11004489 a	g	0.2952
rs61922023	12:12485555	12	12485555 a	g	0.1117

rs77019094	2:81685196	2	81685196 a	g	0.0693
rs8128284	21:22190494	21	22190494 t	g	0.5148
rs2694933	7:113973098	7	113973098 a	g	0.5174
rs6946556	7:121211387	7	121211387 t	g	0.5783
rs56282570	2:161921924	2	161921924 t	g	0.7665
rs7798219	7:121204738	7	121204738 a	c	0.4068
rs75083355	2:161926563	2	161926563 t	c	0.7666
rs12819776	12:70045423	12	70045423 t	c	0.4956
rs11692929	2:81638922	2	81638922 t	c	0.4827
rs61806984	1:169299699	1	169299699 t	c	0.0542
rs7313831	12:70039653	12	70039653 a	g	0.4960
rs2161846	2:161925862	2	161925862 t	c	0.1990
rs76655020	2:161927706	2	161927706 t	g	0.7665
rs12879453	14:47309879	14	47309879 a	g	0.5121
rs79079352	2:81684173	2	81684173 t	c	0.8861
rs76476001	2:81684158	2	81684158 t	c	0.8861
rs7871636	9:11525541	9	11525541 t	c	0.4003
rs1114339	2:161916845	2	161916845 a	c	0.7663
rs79796927	2:161924504	2	161924504 t	c	0.7664
rs10176583	2:161913429	2	161913429 a	t	0.4918
rs35753095	12:70043024	12	70043024 t	c	0.4960
rs117310909	15:76386927	15	76386927 t	c	0.0186
rs60800681	2:161933348	2	161933348 a	g	0.1989
rs12670589	7:133845097	7	133845097 c	g	0.6732
rs78028836	12:12485448	12	12485448 a	g	0.1117
rs7982561	13:100510372	13	100510372 t	c	0.7979
rs4664035	2:161933659	2	161933659 a	g	0.7601
rs4817047	21:27013147	21	27013147 t	g	0.5242
rs9894743	17:9129372	17	9129372 t	c	0.4901
rs62472545	7:121214757	7	121214757 t	c	0.4061
rs4761251	12:70042268	12	70042268 a	g	0.4892
rs28431297	7:114017067	7	114017067 a	g	0.3783
rs10809443	9:11376445	9	11376445 t	g	0.2445
rs61922044	12:12490914	12	12490914 a	g	0.1119
rs4761252	12:70042395	12	70042395 t	g	0.4892
rs12954824	18:40135969	18	40135969 t	c	0.4719
rs2113522	2:161926101	2	161926101 t	c	0.1992
rs16845606	2:161939212	2	161939212 a	g	0.7666
rs17132749	7:121214581	7	121214581 t	c	0.5783
rs4629063	18:40157231	18	40157231 a	g	0.4714
rs1391072	12:84060843	12	84060843 a	g	0.4346
rs2358014	2:161915229	2	161915229 c	g	0.7662
rs2358013	2:161915226	2	161915226 t	c	0.7662
rs7299233	12:70042867	12	70042867 t	c	0.4958
rs12466011	2:81674525	2	81674525 t	c	0.8871
rs1596341	9:11499438	9	11499438 a	g	0.3927
rs1035603	2:161927572	2	161927572 t	c	0.1980
rs1114338	2:161916814	2	161916814 a	c	0.1994
rs10259672	7:114021306	7	114021306 t	c	0.3783
rs78120385	9:32755143	9	32755143 t	g	0.0220
rs889918	2:161915072	2	161915072 t	c	0.7664

rs10139619	14:47305486	14	47305486 a	g	0.5118
rs2694937	7:113983778	7	113983778 t	g	0.4641
rs10233347	7:114021527	7	114021527 a	g	0.6030
rs34611593	2:83738306	2	83738306 a	c	0.1666
rs16845609	2:161939233	2	161939233 t	c	0.7664
rs12476522	2:81690901	2	81690901 a	c	0.8871
rs2396728	7:114025485	7	114025485 a	g	0.6036
rs78936251	2:81679736	2	81679736 t	c	0.8871
rs56829405	12:12496935	12	12496935 a	g	0.1158
rs78183408	2:81677673	2	81677673 t	c	0.0684
rs77879328	2:81689906	2	81689906 t	c	0.0684
rs6972929	7:114021196	7	114021196 a	g	0.3784
rs17143547	7:121219433	7	121219433 t	c	0.4062
rs73277491	12:12494818	12	12494818 t	c	0.1162
rs12091844	1:169433273	1	169433273 t	c	0.0435
rs80348072	2:81675137	2	81675137 t	c	0.8871
rs16845618	2:161944775	2	161944775 a	t	0.7664
rs1559527	2:161906593	2	161906593 t	c	0.1991
rs79218643	2:81674992	2	81674992 a	t	0.0684
rs7302527	12:70039802	12	70039802 t	c	0.4910
rs757712	7:121216082	7	121216082 a	g	0.5782
rs16845509	2:161903427	2	161903427 t	c	0.1982
rs13413697	2:74319805	2	74319805 t	c	0.0206
rs56324352	2:161947688	2	161947688 a	g	0.1972
rs6962871	7:121216317	7	121216317 t	c	0.4063
rs17137004	7:114029251	7	114029251 a	g	0.6040
rs4664399	2:161911196	2	161911196 a	c	0.1991

Meta-analysis (N=85,359)

s ($P < 1.0 \times 10^{-5}$) with antisocial measures in individual cohorts and with a sample-size weighted meta-ar

<i>FreqSE</i>	<i>N</i>	<i>Zscore</i>	<i>P-value</i>	<i>BETA</i>	<i>Direction of effect for</i>
0.0294	50758.58	6.182	6.322e-10	4.34643	+++?++-++++++
0.0237	56632.58	-5.862	4.57e-09	-4.1447	+-----+-----
0.0290	50758.58	5.831	5.505e-09	4.1227	-++?++-++++++
0.0235	56632.58	-5.830	5.543e-09	-4.12209	+-----+-----
0.0288	50758.58	5.817	5.983e-09	4.11288	-++?++-++++++
0.0245	56632.58	-5.814	6.112e-09	-4.11068	+-----+-----
0.0248	50758.58	5.786	7.224e-09	4.09097	-+?++-++++++
0.0241	50758.58	-5.754	8.719e-09	-4.06852	+--?--+-----
0.0280	50758.58	-5.739	9.517e-09	-4.05787	+--?--+-----
0.0280	50758.58	-5.735	9.762e-09	-4.05505	+--?--+-----
0.0317	50758.58	5.707	1.153e-08	4.03509	-++?++-++++++
0.0488	50758.58	5.635	1.746e-08	3.91335	-++?++-++-++++
0.0324	50758.58	5.621	1.898e-08	3.97425	-++?++-++++++
0.0282	56632.58	-5.537	3.077e-08	-3.9064	+-----+-----
0.0140	48278.58	-5.521	3.379e-08	-3.90196	+?--?--+-----
0.0829	56632.58	5.514	3.509e-08	3.89889	++++++-++++++
0.0479	50758.58	5.505	3.688e-08	3.82674	-++?++-++-++++
0.0940	56632.58	5.394	6.907e-08	3.81394	++++++-++++++
0.0878	56632.58	-5.393	6.938e-08	-3.81308	-----+-----
0.0614	47818.11	5.337	9.445e-08	3.34299	+?+?++++++-++++
0.0941	56632.58	5.335	9.535e-08	3.77224	++++++-++++++
0.0845	56632.58	5.334	9.615e-08	3.77161	++++++-++++++
0.1453	49398.58	5.288	1.236e-07	3.73912	+++?++-?+----++
0.0307	48278.58	5.274	1.332e-07	3.72913	-?+?++-++++++
0.0345	43484.58	-5.264	1.41e-07	-3.72087	+--?--+-----
0.2653	49398.58	-5.253	1.498e-07	-3.71429	+--?--+-----
0.2572	55272.58	-5.252	1.509e-07	-3.70616	+-----?----+-
0.2517	55272.58	5.249	1.529e-07	3.71156	-++++++?++-++
0.0319	43484.58	5.246	1.554e-07	3.70948	-++?++-++++++
0.0849	56632.58	5.235	1.653e-07	3.7016	++++++-++++++
0.0878	56632.58	-5.233	1.672e-07	-3.69994	-----+-----
0.2654	49398.58	-5.230	1.693e-07	-3.69803	+--?--+-----
0.0943	56632.58	5.225	1.738e-07	3.69447	++++++-++++++
0.0779	56632.58	-5.217	1.823e-07	-3.68861	-----+-----
0.2573	55272.58	-5.216	1.826e-07	-3.68075	+-----?----+-
0.2572	55272.58	-5.213	1.855e-07	-3.67868	+-----?----+-
0.0167	50758.58	-5.204	1.946e-07	-3.67905	+--?--+-----
0.2532	55272.58	5.202	1.973e-07	3.67832	-++++++?++-++
0.0036	44186.30	5.190	2.103e-07	1.52959	?+--+?+?++++?++
0.0031	51460.30	5.188	2.129e-07	1.55592	?+--+?+?++++?++
0.0881	56632.58	-5.183	2.183e-07	-3.66456	-----+-----
0.0033	42826.30	5.156	2.529e-07	1.50518	?+--+?+?++++?++
0.0032	42826.30	5.150	2.603e-07	1.50984	?+--+?+?++++?++
0.0542	49358.58	5.134	2.84e-07	3.62984	+++++?+-----
0.0191	50758.58	-5.106	3.296e-07	-3.61028	+--?--+-----
0.2103	44186.30	-5.092	3.546e-07	-2.18415	?+--+?+?----?--
0.2464	47998.58	-5.090	3.572e-07	-3.55373	+--?--+-----

0.0690	49358.58	5.061	4.168e-07	3.57775	++++?+++++++
0.0194	50758.58	-5.057	4.262e-07	-3.56823	+--+?--+-----
0.1956	51460.30	-5.053	4.343e-07	-2.09137	?+----?-----?
0.0188	50758.58	5.047	4.494e-07	3.56857	-++?++-+-+-----
0.1982	50100.30	-5.045	4.536e-07	-2.10378	?+---+?---?--
0.0272	43484.58	-5.040	4.648e-07	-3.53386	---??+-----
0.0044	50100.30	5.029	4.922e-07	1.42985	?+----+?+?+?+?
0.0162	43484.58	-5.025	5.035e-07	-3.55207	+--+??---+-----
0.0188	50758.58	-5.014	5.322e-07	-3.54516	+--+?--+-----
0.0030	50100.30	4.998	5.779e-07	1.46217	?+----+?+?+?+?
0.1982	50100.30	-4.986	6.155e-07	-2.07627	?+---+?---?--
0.0119	53220.14	-4.982	6.286e-07	-3.52189	+?-----+-----
0.1982	50100.30	-4.980	6.366e-07	-2.07474	?+---+?---?--
0.0028	50100.30	4.977	6.469e-07	1.45292	?+----+?+?+?+?
0.1982	50100.30	-4.975	6.533e-07	-2.07266	?+---+?---?--
0.0034	51460.30	4.972	6.628e-07	1.47146	?+----+?+?+?+?
0.0030	50100.30	4.966	6.849e-07	1.44971	?+----+?+?+?+?
0.1961	51460.30	-4.963	6.955e-07	-2.0424	?+---+?-----?
0.0207	50758.58	4.962	6.982e-07	3.5085	-++?++-+-+-----
0.0031	51460.30	4.958	7.121e-07	1.44273	?+----+?+?+?+?
0.0029	50100.30	4.958	7.127e-07	1.44738	?+----+?+?+?+?
0.0029	50100.30	4.958	7.131e-07	1.44738	?+----+?+?+?+?
0.1986	50100.30	-4.956	7.178e-07	-2.05316	?+---+?---?--
0.1982	50100.30	-4.955	7.231e-07	-2.06433	?+---+?---?--
0.1981	50100.30	-4.946	7.576e-07	-2.06249	?+---+?---?--
0.1440	42124.58	4.943	7.693e-07	3.4897	+++??+--+-----
0.1981	50100.30	-4.943	7.706e-07	-2.06124	?+---+?---?--
0.0029	51460.30	4.940	7.802e-07	1.47256	?+----+?+?+?+?
0.0046	50100.30	4.934	8.066e-07	1.40918	?+----+?+?+?+?
0.1981	50100.30	-4.933	8.111e-07	-2.05516	?+---+?---?--
0.1981	50100.30	-4.929	8.262e-07	-2.05349	?+---+?---?--
0.0029	51460.30	4.928	8.329e-07	1.44016	?+----+?+?+?+?
0.0026	50100.30	4.927	8.336e-07	1.44293	?+----+?+?+?+?
0.0164	54014.30	4.925	8.418e-07	2.01011	?+----+?+?+?+?
0.1982	50100.30	-4.925	8.445e-07	-2.05183	?+---+?---?--
0.0031	51460.30	4.924	8.463e-07	1.43591	?+----+?+?+?+?
0.0028	50100.30	4.922	8.56e-07	1.4384	?+----+?+?+?+?
0.0030	50100.30	4.919	8.683e-07	1.44059	?+----+?+?+?+?
0.0034	51460.30	4.918	8.722e-07	1.45246	?+----+?+?+?+?
0.0029	50100.30	4.915	8.869e-07	1.43636	?+----+?+?+?+?
0.0031	51460.30	4.915	8.888e-07	1.42867	?+----+?+?+?+?
0.0031	51460.30	4.914	8.912e-07	1.42838	?+----+?+?+?+?
0.0030	50100.30	4.914	8.939e-07	1.44065	?+----+?+?+?+?
0.2498	47998.58	4.913	8.975e-07	3.43214	++++?+?+?+?+?
0.0031	51460.30	4.903	9.414e-07	1.43438	?+----+?+?+?+?
0.0025	50100.30	4.902	9.472e-07	1.41253	?+----+?+?+?+?
0.0029	50100.30	4.898	9.684e-07	1.43596	?+----+?+?+?+?
0.1981	50100.30	-4.897	9.745e-07	-2.04396	?+---+?---?--
0.1981	50100.30	-4.892	9.961e-07	-2.04092	?+---+?---?--
0.0029	50100.30	4.892	1e-06	1.4342	?+----+?+?+?+?
0.0029	50100.30	4.892	1e-06	1.42811	?+----+?+?+?+?

0.0031	51460.30	4.890	1.006e-06	1.42294	?+---?++++?++
0.0029	50100.30	4.890	1.007e-06	1.43513	?+---?+?+++?++
0.1981	50100.30	-4.888	1.021e-06	-2.0402	?-+++?-?---?--
0.0029	50100.30	4.887	1.026e-06	1.43273	?+---?+?+++?++
0.1982	50100.30	-4.885	1.035e-06	-2.038	?-+++?-?---?--
0.0034	51460.30	4.882	1.052e-06	1.44183	?+---?+?+++?++
0.0029	50100.30	4.879	1.068e-06	1.42431	?+---?+?+++?++
0.0028	51460.30	4.878	1.07e-06	1.40252	?+---?+?+++?++
0.1951	51460.30	-4.876	1.08e-06	-2.02763	?-+++?-----?--
0.0035	51460.30	4.875	1.089e-06	1.44873	?+---?+?+++?++
0.0029	50100.30	4.875	1.09e-06	1.42315	?+---?+?+++?++
0.1982	50100.30	-4.871	1.111e-06	-2.02933	?-+++?-?---?--
0.0029	50100.30	4.870	1.114e-06	1.42775	?+---?+?+++?++
0.1982	50100.30	-4.869	1.124e-06	-2.0285	?-+++?-?---?--
0.1982	50100.30	-4.866	1.14e-06	-2.0263	?-+++?-?---?--
0.0029	50100.30	4.865	1.143e-06	1.42628	?+---?+?+++?++
0.1981	50100.30	-4.864	1.15e-06	-2.02924	?-+++?-?---?--
0.1983	50100.30	-4.863	1.154e-06	-2.026	?-+++?-?---?--
0.1981	50100.30	-4.863	1.155e-06	-2.02882	?-+++?-?---?--
0.1949	51460.30	-4.861	1.167e-06	-2.02517	?-+++?-----?--
0.0029	50100.30	4.861	1.17e-06	1.41906	?+---?+?+++?++
0.0031	51460.30	4.858	1.183e-06	1.41363	?+---?+?+++?++
0.1942	51460.30	-4.858	1.185e-06	-2.02203	?-+++?-----?--
0.0031	51460.30	4.857	1.189e-06	1.41029	?+---?+?+++?++
0.0031	51460.30	4.857	1.191e-06	1.41334	?+---?+?+++?++
0.1959	51460.30	-4.856	1.198e-06	-2.00507	?-+++?-----?--
0.0031	51460.30	4.855	1.206e-06	1.41276	?+---?+?+++?++
0.0034	51460.30	4.854	1.212e-06	1.441	?+---?+?+++?++
0.0029	50100.30	4.852	1.22e-06	1.42097	?+---?+?+++?++
0.0031	51460.30	4.852	1.22e-06	1.41188	?+---?+?+++?++
0.1982	50100.30	-4.851	1.226e-06	-2.021	?-+++?-?---?--
0.1959	51460.30	-4.850	1.236e-06	-2.00449	?-+++?-----?--
0.0031	51460.30	4.848	1.245e-06	1.4092	?+---?+?+++?++
0.0029	50100.30	4.846	1.26e-06	1.41921	?+---?+?+++?++
0.0034	51460.30	4.845	1.265e-06	1.43833	?+---?+?+++?++
0.0031	51460.30	4.842	1.288e-06	1.40745	?+---?+?+++?++
0.1959	51460.30	-4.841	1.29e-06	-1.99887	?-+++?-----?--
0.0031	51460.30	4.840	1.297e-06	1.40991	?+---?+?+++?++
0.1950	51460.30	-4.837	1.321e-06	-2.01517	?-+++?-----?--
0.0034	51460.30	4.836	1.326e-06	1.43566	?+---?+?+++?++
0.1950	51460.30	-4.834	1.335e-06	-2.01392	?-+++?-----?--
0.0031	51460.30	4.830	1.362e-06	1.40397	?+---?+?+++?++
0.0440	49621.11	-4.825	1.403e-06	-3.22043	-?---?-----+---
0.0366	48278.58	-4.823	1.411e-06	-3.27673	-?-?-----+---
0.1982	50100.30	-4.823	1.415e-06	-2.00933	?-+++?-?---?--
0.0034	51460.30	4.821	1.427e-06	1.4312	?+---?+?+++?++
0.0034	51460.30	4.820	1.434e-06	1.42943	?+---?+?+++?++
0.0034	51460.30	4.820	1.439e-06	1.42943	?+---?+?+++?++
0.1960	51460.30	-4.818	1.452e-06	-1.98938	?-+++?-----?--
0.0031	51460.30	4.817	1.461e-06	1.39868	?+---?+?+++?++
0.0034	51460.30	4.813	1.49e-06	1.42883	?+---?+?+++?++

0.0028	50100.30	4.808	1.524e-06	1.41106	?+---?+?+++?++
0.0027	50100.30	4.803	1.567e-06	1.384	?+----?+?+++?++
0.0030	50100.30	4.799	1.592e-06	1.40544	?+---?+?+++?++
0.2591	51578.58	4.799	1.592e-06	3.38991	-+++++++?+?+---
0.0226	56632.58	4.791	1.657e-06	3.37307	++++++-+++++++
0.1981	50100.30	-4.783	1.726e-06	-1.99637	?-+++?-?---?--
0.0451	49621.11	4.778	1.77e-06	3.16863	+?+++?+++++-----
0.0328	56632.58	-4.776	1.791e-06	-3.36905	-----+-----
0.1960	51460.30	-4.775	1.801e-06	-1.97162	?-+++?-?---?--
0.1419	46143.58	-4.769	1.855e-06	-3.37214	??+?----?-----
0.0029	50100.30	4.766	1.876e-06	1.39578	?+---?+?+++?++
0.0240	46469.83	4.761	1.927e-06	1.85855	??+-----+-----
0.0207	46878.58	-4.754	1.998e-06	-3.35032	+?+?-+--+-----
0.0031	51460.30	4.751	2.029e-06	1.37951	?+---?+-----+---
0.1948	51460.30	-4.748	2.058e-06	-1.97901	?-+++?-?---?--
0.1982	50100.30	-4.745	2.087e-06	-1.9796	?-+++?-?---?--
0.1960	51460.30	-4.742	2.113e-06	-1.95613	?-+++?-?---?--
0.1948	51460.30	-4.740	2.136e-06	-1.97567	?-+++?-?---?--
0.0779	53918.59	-4.740	2.136e-06	-2.713	-?----+-----+---
0.1948	51460.30	-4.739	2.152e-06	-1.97526	?-+++?-?---?--
0.0779	53918.59	-4.738	2.157e-06	-2.70942	-?----+-----+---
0.0036	51460.30	4.735	2.194e-06	1.40857	?+---?+-----+---
0.0030	50100.30	4.716	2.407e-06	1.37967	?+---?+-----+---
0.1293	49358.58	4.716	2.407e-06	2.97665	++++?+++-----
0.0427	41004.58	-4.714	2.434e-06	-3.21062	-?-??+-----
0.0748	40544.11	-4.708	2.501e-06	-2.84882	-?-??-----
0.1318	49358.58	4.706	2.525e-06	2.94495	++++?+++-----
0.0822	55857.58	-4.701	2.586e-06	-3.1358	?-----+-----
0.0153	33321.83	-4.698	2.622e-06	-1.75638	??-??---+-----?
0.0218	55857.58	4.694	2.674e-06	3.06963	?++++-+++++-----
0.0221	55857.58	4.691	2.722e-06	3.06658	?++++-+++++-----
0.0219	55857.58	4.690	2.73e-06	3.06647	?++++-+++++-----
0.0827	55857.58	-4.688	2.761e-06	-3.12689	?-----+-----
0.2520	55272.58	-4.687	2.766e-06	-3.31407	-----+-----
0.1959	51460.30	-4.687	2.777e-06	-1.93621	?-+++?-?---?--
0.0336	56632.58	-4.686	2.785e-06	-3.30523	-----+-----
0.2310	52792.58	-4.678	2.894e-06	-3.3058	-?+-----?+-----
0.0027	30348.81	4.673	2.975e-06	1.00732	??+?+++?+?+?+?
0.0703	46878.58	4.673	2.975e-06	2.84267	+?+?+++-----
0.0221	55857.58	4.662	3.132e-06	3.04789	?++++-+++++-----
0.3019	40200.11	-4.654	3.26e-06	-3.26372	+?-?-?-?-----
0.0304	56632.58	4.653	3.279e-06	3.20671	++++++-+++++++
0.0820	55857.58	-4.651	3.309e-06	-3.10498	?-----+-----
0.0221	55857.58	4.647	3.363e-06	3.03808	?++++-+++++-----
0.0053	39336.83	4.639	3.508e-06	1.47761	??+?+-----+?
0.0935	49358.58	4.638	3.518e-06	3.27719	++++?+-----
0.0251	54152.58	-4.632	3.622e-06	-3.26529	-?-----+-----
0.0129	52917.11	4.631	3.644e-06	3.27102	??+-----+-----
0.2608	30982.00	-4.626	3.734e-06	-1.91645	?-?---?+?+?+?
0.0826	55857.58	-4.611	4.014e-06	-3.07576	?-----+-----
0.0704	54152.58	4.610	4.017e-06	2.6976	-?+-----+-----

0.2528	55272.58	-4.603	4.161e-06	-3.25467	----+---?-----
0.0459	49358.58	4.601	4.198e-06	3.2087	++++?+---+++++
0.0251	47818.11	4.601	4.211e-06	3.2534	+?+?+++++---++
0.0037	33937.83	-4.596	4.308e-06	-1.18792	??-?-?+--?+--?
0.2248	45518.58	-4.593	4.375e-06	-3.22657	-?+--?---?+----
0.2585	55272.58	4.592	4.399e-06	3.23965	++++-+++?+++++
0.0931	47998.58	-4.590	4.432e-06	-3.23706	+---?-+--?+----
0.3106	40200.11	4.589	4.449e-06	3.22464	-?+?+?+??++++++
0.2571	55272.58	4.584	4.564e-06	3.23418	++++-+++?+++++
0.0250	48278.58	4.583	4.576e-06	3.19582	+?+?+++++++---+
0.2056	40200.11	4.582	4.598e-06	3.23004	+?+?+?+??++++++
0.0777	49358.58	-4.573	4.805e-06	-3.23351	----?-+-----
0.0245	48278.58	4.570	4.887e-06	3.17123	+?+?+++++++
0.0469	56632.58	4.561	5.079e-06	3.18512	+++++++---++
0.1357	49358.58	4.555	5.248e-06	2.84978	++++?+---++
0.0385	50758.58	-4.544	5.51e-06	-3.213	---?-----+
0.1614	55272.58	4.544	5.511e-06	3.21295	++++-++?+++
0.0307	42709.58	4.544	5.52e-06	3.00962	?+?+?+?+?+?+?
0.0469	56632.58	4.542	5.566e-06	3.17185	+++++++---++
0.0473	56632.58	4.542	5.567e-06	3.17195	+++++++---++
0.0134	53692.11	-4.542	5.581e-06	-3.20593	-?-----+---
0.0072	55273.30	-4.537	5.712e-06	-2.02111	?-----+---
0.0261	56632.58	-4.536	5.74e-06	-3.15037	-----+---+
0.1479	56398.59	-4.522	6.123e-06	-2.70508	-+---+---+---
0.0198	56632.58	4.522	6.131e-06	3.19077	+++++++---++
0.1613	48497.58	4.513	6.389e-06	3.18928	?+---?+?+?+?
0.0072	55273.30	-4.512	6.41e-06	-2.01155	?-----+---
0.0064	55273.30	-4.511	6.45e-06	-2.03828	?-----+---
0.0114	34405.56	-4.508	6.545e-06	-0.861348	???-?-?+?+?+---
0.1581	55273.30	4.505	6.622e-06	2.27865	?+?+?+?+?+?+?
0.0363	49398.58	-4.505	6.623e-06	-3.18514	++-?-----
0.0477	56632.58	4.501	6.748e-06	3.14352	+++++++---++
0.0320	56632.58	4.501	6.754e-06	3.08713	-++++-+++++
0.2816	42124.58	-4.499	6.824e-06	-3.18072	---??-+?+---
0.0143	37803.42	-4.495	6.957e-06	-0.942745	??-?---?+?+?
0.0065	55273.30	-4.493	7.01e-06	-2.03473	?-----+---
0.0261	56632.58	-4.493	7.02e-06	-3.1205	-----+---+
0.0402	53220.14	4.485	7.282e-06	3.0172	+?+?+?+?+?+?
0.0837	49358.58	4.485	7.301e-06	3.16971	++++?+?+?+?+?
0.0266	48583.58	4.484	7.332e-06	2.89759	?+?+?+?+?+?
0.1666	50684.58	4.483	7.351e-06	3.16956	?+?+?+?+?+?
0.0071	55273.30	-4.480	7.478e-06	-1.99494	?-----+---
0.0779	49358.58	-4.478	7.535e-06	-3.16633	----?-+-----
0.1581	55273.30	4.478	7.539e-06	2.265	?+?+?+?+?+?+?
0.0022	43193.42	-4.477	7.557e-06	-0.980756	?---?-?+?+?+---
0.1582	55273.30	4.476	7.604e-06	2.2646	?+?+?+?+?+?+?
0.0207	49358.58	4.476	7.607e-06	3.15476	++-?+?+?+?+?
0.1582	55273.30	4.476	7.615e-06	2.26399	?+?+?+?+?+?+?
0.0719	43484.58	4.475	7.647e-06	3.16408	-+?+?+?+?+?
0.0147	48583.58	-4.474	7.673e-06	-2.88604	?---?-+---+---
0.0072	55273.30	-4.474	7.677e-06	-1.99305	?-----+---

0.0132	54014.30	4.472	7.735e-06	1.60616	?+++++-----?++
0.0110	52917.11	-4.472	7.738e-06	-3.1608	??-----+----
0.0932	47998.58	4.472	7.744e-06	3.16027	-+++?+-+?+-----
0.0468	56632.58	4.472	7.752e-06	3.12317	+++++++-----
0.1475	56398.59	-4.470	7.831e-06	-2.67437	-+-----+-----
0.0260	56632.58	-4.468	7.882e-06	-3.10398	-----+-----
0.1478	56398.59	-4.468	7.911e-06	-2.67278	-+-----+-----
0.0386	50758.58	-4.467	7.931e-06	-3.15852	---?-----+----
0.0567	46878.58	4.465	8.008e-06	3.15534	+?++?+++++-----
0.0034	51460.30	4.465	8.009e-06	1.42967	?+-----?+++++?++
0.0381	50758.58	-4.464	8.061e-06	-3.15642	---?-----+----
0.0758	56398.59	4.463	8.076e-06	2.51991	+-----+-----+--
0.1478	56398.59	-4.462	8.122e-06	-2.66959	-+-----+-----
0.0264	49983.58	4.462	8.134e-06	3.15419	?-+?+-+-----+--
0.1792	54014.30	-4.461	8.159e-06	-2.00424	?-----+-----?--
0.1792	54014.30	-4.461	8.167e-06	-2.00424	?-----+-----?--
0.0322	49358.58	-4.460	8.205e-06	-3.09036	----?--+-----
0.1477	56398.59	-4.459	8.226e-06	-2.66859	-+-----+-----
0.1477	56398.59	-4.458	8.277e-06	-2.66759	-+-----+-----
0.1643	50684.58	4.457	8.309e-06	3.15115	?++++-?-?++++?++
0.0380	50758.58	-4.455	8.375e-06	-3.15006	---?-----+----
0.0030	36195.00	4.454	8.43e-06	0.85103	?+-----?++?+?+
0.0758	56398.59	4.454	8.444e-06	2.51435	+-----+-----+--
0.1023	50758.58	-4.452	8.511e-06	-2.95313	-+?-+-----
0.0071	55273.30	-4.452	8.518e-06	-1.98325	?-----+-----
0.0898	46184.12	4.452	8.524e-06	2.52829	+?++?--+-----
0.1438	56398.59	-4.451	8.543e-06	-2.68796	-+-----+-----
0.1000	41548.58	-4.449	8.637e-06	-3.14223	-???-?-----
0.0126	53220.14	4.448	8.65e-06	3.14459	-?+++++-----+----
0.0261	56632.58	-4.447	8.715e-06	-3.08855	-----+-----
0.0395	43484.58	-4.446	8.75e-06	-3.14306	---??-?-----
0.0319	56632.58	4.446	8.751e-06	3.04925	-+++++-----
0.0627	56632.58	-4.446	8.751e-06	-2.70235	----+-----
0.0072	55273.30	-4.445	8.771e-06	-1.98168	?-----+-----
0.0394	43484.58	-4.445	8.772e-06	-3.14236	---??-?-----
0.2218	49398.58	4.445	8.802e-06	3.13812	-++?++++?+++---
0.0758	56398.59	4.444	8.81e-06	2.51013	+-----+-----+--
0.1478	56398.59	-4.444	8.829e-06	-2.65842	-+-----+-----
0.0468	56632.58	4.444	8.833e-06	3.10361	+++++-----
0.2361	55272.58	-4.443	8.886e-06	-3.13653	+-----?-----
0.0456	43484.58	4.442	8.907e-06	3.11398	-++?+-----+----
0.1485	56398.59	-4.442	8.918e-06	-2.65881	-+-----+-----
0.1484	56398.59	-4.442	8.926e-06	-2.65881	-+-----+-----
0.0382	50758.58	-4.440	9.004e-06	-3.13944	---?-----+----
0.1795	54014.30	-4.439	9.056e-06	-1.98671	?-----+-----?--
0.0327	49358.58	-4.438	9.081e-06	-3.06503	----?--+-----
0.0761	56398.59	4.438	9.1e-06	2.50105	+-----+-----+--
0.0758	56398.59	4.436	9.158e-06	2.50655	+-----+-----+--
0.0319	56632.58	4.436	9.186e-06	3.04239	-+++++-----
0.0026	42151.47	4.435	9.199e-06	0.920003	?-++++?+??+?++
0.1477	56398.59	-4.435	9.212e-06	-2.65383	-+-----+-----

0.0260	49983.58	4.433	9.301e-06	3.13373	?++?+-----++
0.0929	47998.58	-4.430	9.416e-06	-3.1244	+---?--+?+---
0.0620	56632.58	-4.430	9.429e-06	-3.0653	+-----+-----
0.0877	47584.12	4.429	9.455e-06	2.33391	+?+?+-----++
0.1478	56398.59	-4.429	9.464e-06	-2.65024	-+----+----+-
0.1795	54014.30	-4.428	9.493e-06	-1.98178	?-----+----?--
0.0626	56632.58	-4.428	9.51e-06	-3.06312	+-----+-----
0.1795	54014.30	-4.427	9.546e-06	-1.98133	?-----+----?--
0.0057	55273.30	-4.427	9.558e-06	-2.00334	?-----+-----
0.0130	54014.30	4.426	9.605e-06	1.58004	?+++++----++?++
0.0130	54014.30	4.426	9.606e-06	1.58004	?+++++----++?++
0.0319	56632.58	4.426	9.606e-06	3.03569	-+++++-----++
0.0261	56632.58	-4.426	9.617e-06	-3.07409	-----+----+-
0.0058	55273.30	-4.425	9.648e-06	-2.00543	?-----+-----
0.0026	47766.30	4.422	9.766e-06	1.27562	?+---?+??+?++
0.1795	54014.30	-4.422	9.782e-06	-1.9791	?-----+----?--
0.1479	56398.59	-4.422	9.793e-06	-2.64605	-+----+----+-
0.0758	56398.59	4.421	9.808e-06	2.49667	+-----+-----++
0.0130	54014.30	4.421	9.81e-06	1.57826	?+++++----++?++
0.0309	50758.58	4.421	9.836e-06	3.12561	+++?+-----++
0.0468	56632.58	4.420	9.868e-06	3.08695	+++++-----++
0.0762	56398.59	4.419	9.919e-06	2.49129	+-----+-----++
0.0024	36624.37	4.419	9.919e-06	0.887672	?+?+---??+?++
0.0771	56398.59	4.418	9.943e-06	2.48598	+-----+-----++
0.0260	56632.58	-4.418	9.944e-06	-3.06865	-----+----+-
0.0628	56632.58	-4.418	9.96e-06	-3.05567	+-----+-----
0.0758	56398.59	4.418	9.978e-06	2.49497	+-----+-----++

analysis in METAL.
each cohort

Supplementary Table 4. Summary Statistics of the male-specific GWAS meta-Summary statistics were generated using linear or logistic regression models of SNP associations with ε

<i>SNP(RS)</i>	<i>SNP(CHR:BP)</i>	<i>Allele1</i>	<i>Allele2</i>	<i>N</i>	<i>Zscore</i>	<i>P-value</i>
rs145396517	18:32396238	a	g	10363	4,902	9.511e-07
rs1671498	12:16290917	a	g	22322	-4,738	2.159e-06
rs8071568	17:814877	t	g	18612	4,664	3.102e-06
rs2829734	21:26786029	t	g	19432	4,647	3.373e-06
rs342511	3:42578509	a	g	22322	-4,645	3.407e-06
rs4799064	18:77312251	t	c	18290	4,631	3.634e-06
rs4798909	18:77342658	t	c	15023	-4,617	3.894e-06
rs12692827	2:167549691	a	t	19432	4,614	3.957e-06
rs34584736	4:181801069	a	g	22195	4,613	3.977e-06
rs62054478	16:86439295	a	g	16419	4,610	4.03e-06
rs1358251	12:16302291	t	c	22322	4,603	4.155e-06
rs1671490	12:16301480	t	c	22322	4,599	4.239e-06
rs1671509	12:16294049	t	c	22322	4,594	4.346e-06
rs57098061	17:710512	a	t	15849	4,592	4.395e-06
rs13139012	4:176584446	a	t	18863	-4,571	4.856e-06
rs34273969	4:181798014	t	c	22322	4,567	4.954e-06
rs13148290	4:181818383	t	c	21053	4,565	4.998e-06
rs1555514	14:100201864	a	g	21626	-4,565	4.999e-06
rs8913	3:42578768	a	g	22322	-4,563	5.032e-06
rs7702871	5:55748971	a	g	21626	-4,554	5.255e-06
rs75016974	14:100197940	t	c	21626	-4,552	5.306e-06
rs11932265	4:176586259	t	c	18863	-4,548	5.406e-06
rs4294879	18:77340637	t	c	15023	-4,548	5.411e-06
rs8066798	17:814834	a	g	18612	4,545	5.487e-06
rs9990731	4:6139701	t	g	19308	-4,545	5.488e-06
rs17693098	17:814529	t	c	18612	4,539	5.657e-06
rs4295305	4:181811555	a	t	22195	4,539	5.661e-06
rs73128977	5:55748844	a	c	21626	-4,533	5.803e-06
rs9915381	17:814729	a	g	18612	-4,512	6.421e-06
rs73350477	14:100194128	t	c	20484	4,508	6.538e-06
rs66729512	18:77344254	a	g	15023	4,506	6.609e-06
rs60120758	4:181811159	a	g	22195	-4,505	6.636e-06
rs3915810	18:77340512	a	g	15023	4,504	6.674e-06
rs61480114	4:181797393	a	g	22195	-4,503	6.694e-06
rs4512066	4:6140737	a	g	19308	-4,500	6.793e-06
rs60861881	18:77344566	t	c	15023	-4,493	7.036e-06
rs13235551	7:24316622	a	g	22322	4,489	7.139e-06
rs60999262	13:48271273	t	c	14018	-4,489	7.168e-06
rs58404898	18:77344544	t	c	15023	4,481	7.415e-06
rs60489689	5:55747132	t	g	21626	4,478	7.529e-06
rs10007447	4:181807979	t	g	22195	-4,478	7.53e-06
rs182378874	18:32365029	t	c	10363	4,475	7.646e-06
rs13103571	4:188985153	t	c	21053	-4,464	8.045e-06
rs12033058	1:76278926	a	g	19432	4,463	8.083e-06
rs7525919	1:76285342	t	g	19432	-4,461	8.163e-06
rs12724860	1:76285457	a	g	19432	4,460	8.192e-06
rs5745314	1:76268223	a	t	19432	-4,457	8.306e-06

rs2131558	1:76287926	a	g	19432	-4,456 8.352e-06
rs370365	18:77315562	t	c	18290	-4,455 8.4e-06
rs66663217	18:77344787	t	c	15023	4,454 8.413e-06
rs12024645	1:76284395	a	g	19432	-4,451 8.564e-06
rs12987573	2:1971538	t	c	16200	4,450 8.605e-06
rs4799068	18:77339008	t	c	16165	4,449 8.643e-06
rs9701452	1:229290907	t	g	21626	-4,447 8.724e-06
rs73477179	13:48293885	t	c	14018	4,446 8.741e-06
rs10782556	1:76292379	c	g	19432	4,446 8.763e-06
rs7522578	1:15784019	t	c	18417	-4,445 8.777e-06
rs2883052	16:86399603	a	c	18037	4,445 8.79e-06
rs2655834	2:167598793	t	c	19559	4,443 8.857e-06
rs34486572	1:76298059	t	c	19432	4,442 8.892e-06
rs13129656	4:176581302	a	g	18863	-4,442 8.902e-06
rs11216464	11:117456464	t	c	22322	4,442 8.907e-06
rs7232069	18:40158358	a	g	21626	-4,441 8.942e-06
rs3737574	1:76272837	a	g	19432	-4,438 9.098e-06
rs12564772	1:76294280	a	g	19432	4,438 9.1e-06
rs1077901	14:100207687	a	t	18863	-4,436 9.152e-06
rs2655825	2:167592193	t	c	19559	-4,436 9.161e-06
rs61389441	18:77343198	a	g	15023	4,435 9.213e-06
rs2655835	2:167597771	t	c	19559	-4,431 9.398e-06
rs7238529	18:40161451	a	g	21836	4,430 9.422e-06
rs12407107	1:76292728	t	c	19432	4,430 9.441e-06
rs12727156	1:76275459	t	c	19432	4,429 9.487e-06
rs71656856	1:76297857	a	g	19432	-4,425 9.656e-06
rs17097634	1:76302470	t	c	19432	-4,424 9.683e-06
rs10273936	7:24316321	t	c	22322	-4,424 9.708e-06
rs12024786	1:76323666	t	c	18290	4,420 9.848e-06
rs12045363	1:76304930	t	c	19432	4,419 9.893e-06
rs4318904	6:130032090	a	t	20097	4,418 9.955e-06
rs637538	18:77318375	t	c	18290	-4,416 1.005e-05
rs4861876	4:181787326	a	g	20694	4,414 1.014e-05
rs7231626	18:40158227	t	c	21836	-4,412 1.024e-05
rs34613593	4:181788670	t	c	20694	4,410 1.036e-05
rs2664013	2:167607256	a	g	19559	4,404 1.065e-05
rs35718347	4:181788942	a	g	20694	4,403 1.07e-05
rs4243264	18:40157538	a	g	21626	-4,402 1.074e-05
rs4890406	18:40160119	a	c	21836	-4,401 1.077e-05
rs8106042	19:7161849	c	g	21053	-4,397 1.099e-05
rs2664015	2:167616933	t	g	19559	-4,395 1.109e-05
rs10183007	2:167573022	a	g	19559	4,393 1.116e-05
rs2655832	2:167602301	a	g	19559	-4,393 1.12e-05
rs17030057	1:6976880	a	g	13076	4,391 1.13e-05
rs4284844	2:167573359	a	g	19559	-4,390 1.133e-05
rs1396871	2:167575649	t	c	19559	-4,388 1.145e-05
rs5745334	1:76273441	c	g	18072	-4,386 1.154e-05
rs7900725	10:33448510	t	c	20694	4,383 1.169e-05
rs36001401	4:181788610	a	g	20694	4,383 1.173e-05
rs442352	7:133825945	t	c	21053	-4,382 1.177e-05

rs7230640	18:40154420	t	c	21836	4,382	1.178e-05
rs183833313	12:723046	a	g	12633	4,381	1.179e-05
rs7740442	6:52424837	a	c	22322	4,379	1.194e-05
rs2664009	2:167587702	t	g	19559	-4,378	1.2e-05
rs8088755	18:77341187	t	c	17786	4,377	1.201e-05
rs112189650	8:74303258	t	c	20324	4,377	1.204e-05
rs2655836	2:167628016	a	g	19432	4,376	1.211e-05
rs2140200	4:181790682	a	g	20694	4,373	1.225e-05
rs9964460	18:40156291	a	g	21626	-4,373	1.228e-05
rs147771531	4:181794496	a	t	20694	4,368	1.257e-05
rs4798908	18:77338947	c	g	18928	4,367	1.262e-05
rs308531	18:77318730	a	g	18290	4,366	1.265e-05
rs34380816	4:188981694	a	c	21053	4,364	1.276e-05
rs4243262	18:40157434	t	c	21836	-4,363	1.285e-05
rs66988461	4:181787573	t	c	20694	-4,360	1.298e-05
rs4861878	4:181794137	a	t	20694	4,358	1.312e-05
rs115641088	4:176586984	t	c	18863	4,356	1.324e-05
rs34216541	4:176590847	t	c	18863	4,354	1.334e-05
rs35165819	4:181791622	t	c	20694	-4,351	1.354e-05
rs4667918	2:167533972	a	t	10433	4,349	1.368e-05
rs142820161	1:76323984	t	c	18290	-4,346	1.385e-05
rs12278598	11:95698325	t	g	22195	4,343	1.406e-05
rs36109638	4:181794645	a	g	20694	4,342	1.411e-05
rs7092141	10:16711372	t	c	13758	-4,341	1.415e-05
rs4530383	2:167553119	t	g	19432	4,336	1.451e-05
rs366085	18:77307244	a	g	18290	4,335	1.455e-05
rs1970678	18:69326967	a	g	22322	-4,335	1.458e-05
rs438222	18:77307274	a	g	18290	-4,334	1.465e-05
rs2256325	2:167608978	a	g	19559	4,330	1.489e-05
rs12692833	2:167551717	t	c	19432	4,330	1.493e-05
rs35888026	4:176592105	t	c	18863	-4,326	1.519e-05
rs10206201	2:167579827	a	g	19559	4,322	1.545e-05
rs1627168	13:101383548	a	t	14986	4,321	1.55e-05
rs7605290	2:167553776	a	g	19432	4,320	1.557e-05
rs7593002	2:167553795	t	g	19432	4,320	1.558e-05
rs10930248	2:167552794	a	g	19432	-4,320	1.563e-05
rs2390421	2:167553331	a	g	19432	4,320	1.563e-05
rs2390422	2:167553157	a	t	19432	4,320	1.563e-05
rs7590160	2:167553640	t	c	19432	4,320	1.564e-05
rs10930247	2:167551248	t	c	19432	-4,319	1.567e-05
rs10930249	2:167554124	t	c	19432	-4,319	1.57e-05
rs10930246	2:167551221	t	c	19432	-4,318	1.575e-05
rs4542867	2:167552635	a	t	19432	4,315	1.596e-05
rs12692834	2:167552196	a	g	19432	4,314	1.601e-05
rs13002681	2:167552151	a	g	19432	-4,314	1.601e-05
rs4535059	2:167552276	a	g	19432	-4,314	1.602e-05
rs13025254	2:167549865	a	g	19432	-4,314	1.606e-05
rs11681563	2:167551100	t	c	19432	4,313	1.609e-05
rs11885569	2:167551373	a	g	19432	-4,313	1.61e-05
rs12995178	2:167550838	c	g	19432	-4,313	1.611e-05

rs62197060	2:167549967	t	c	19432	4,311	1.627e-05
rs12692829	2:167550378	a	c	19432	4,309	1.641e-05
rs12692830	2:167550522	a	g	19432	4,308	1.65e-05
rs9585489	13:101380286	a	g	14986	4,306	1.661e-05
rs11884003	2:1970852	t	c	16200	4,304	1.675e-05
rs255887	5:1111103421	a	g	19654	-4,301	1.702e-05
rs6566554	18:69330330	t	c	22322	-4,300	1.71e-05
rs13185077	5:174199283	a	g	21626	-4,299	1.714e-05
rs1660130	18:77305835	t	c	18290	4,296	1.737e-05
rs62197061	2:167550147	a	c	19432	-4,296	1.739e-05
rs60435280	7:24318853	a	g	22322	4,294	1.752e-05
rs889191	5:79811662	a	g	21180	4,293	1.766e-05
rs12619000	2:167549363	t	g	19432	4,292	1.775e-05
rs1540663	4:188981386	a	g	22322	-4,286	1.816e-05
rs449183	18:77312779	t	c	18290	-4,285	1.824e-05
rs74188966	2:1959967	a	g	20255	-4,281	1.863e-05
rs4507120	2:167552236	c	g	19432	4,278	1.888e-05
rs9973671	2:167558479	t	c	19432	-4,278	1.889e-05
rs116408457	2:230913713	a	t	18512	-4,277	1.891e-05
rs1396873	2:167557904	a	c	19432	4,275	1.916e-05
rs9725104	1:229273230	a	t	21626	4,274	1.921e-05
rs17392621	4:176574362	t	c	18863	4,270	1.958e-05
rs1957516	14:100208990	a	g	18476	-4,264	2.004e-05
rs4905890	14:100205888	t	c	18863	-4,264	2.004e-05
rs76215458	2:81756214	a	c	18263	4,263	2.016e-05
rs7158575	14:100215383	t	c	21626	-4,259	2.053e-05
rs10171763	2:167559098	a	g	19432	4,257	2.072e-05
rs3779477	7:24327526	a	g	22322	-4,256	2.079e-05
rs2390419	2:167572643	t	c	19432	-4,256	2.08e-05
rs10256432	7:24320787	a	g	22322	-4,253	2.109e-05
rs34474026	2:167528366	t	g	19559	-4,251	2.127e-05
rs12750326	1:229287077	a	g	21626	-4,250	2.133e-05
rs12912547	15:71531523	a	g	17721	-4,251	2.133e-05
rs11599046	10:33449386	a	t	21626	-4,248	2.161e-05
rs10930253	2:167565920	a	g	19432	4,246	2.178e-05
rs12536335	7:114043159	a	g	22322	4,246	2.178e-05
rs10166296	2:167566022	t	c	19432	4,245	2.184e-05
rs4667919	2:167534187	t	c	19559	-4,244	2.192e-05
rs701171	1:232683475	a	g	22195	4,243	2.201e-05
rs116299010	2:109804522	a	g	14018	4,240	2.24e-05
rs838043	18:77300550	t	g	18290	-4,239	2.241e-05
rs11161728	1:76315457	a	c	19432	4,239	2.243e-05
rs28408523	12:115857514	c	g	22195	4,238	2.253e-05
rs1556926	14:51496021	t	c	22195	4,238	2.26e-05
rs12661318	6:151216868	a	g	16891	-4,236	2.278e-05
rs6759767	2:167542397	t	c	19559	-4,235	2.285e-05
rs116855224	6:151215261	c	g	15749	-4,234	2.293e-05
rs144410048	14:33541991	t	c	12146	-4,234	2.296e-05
rs77351201	2:109805577	t	c	14018	4,234	2.296e-05
rs7561719	2:167565102	t	c	19432	4,234	2.3e-05

rs6854130	4:181786172	a	c	20694	4,233	2.308e-05
rs12958236	18:77305823	t	c	18290	4,233	2.31e-05
rs838044	18:77300563	t	c	18290	-4,229	2.347e-05
rs175861	6:151234239	c	g	16891	4,228	2.36e-05
rs838045	18:77300799	a	g	18290	4,227	2.366e-05
rs7600702	2:167565007	t	g	19432	-4,226	2.381e-05
rs76123274	10:99401494	t	c	12943	-4,224	2.397e-05
rs6760520	2:167566991	t	g	19432	-4,224	2.398e-05
rs4266032	2:167573436	t	c	19432	4,224	2.405e-05
rs58510662	7:103196790	a	g	11554	-4,222	2.419e-05
rs4834854	4:12898697	t	c	22195	4,222	2.425e-05
rs1912158	2:167572968	t	c	19432	-4,220	2.444e-05
rs12692843	2:167568912	a	g	19432	4,219	2.452e-05
rs17827328	6:147021119	t	c	22195	-4,218	2.467e-05
rs508253	18:3599193	t	c	18822	-4,217	2.473e-05
rs1660127	18:77307746	a	g	18290	-4,213	2.523e-05
rs34945544	4:176588987	a	g	18863	4,212	2.528e-05
rs5574	7:24329133	t	c	22322	-4,211	2.543e-05
rs838046	18:77301142	t	c	18290	4,211	2.543e-05
rs71613762	4:176580837	t	c	18863	4,210	2.554e-05
rs8090895	18:69330655	a	g	22322	-4,208	2.582e-05
rs12049212	1:76331979	a	g	19432	4,207	2.588e-05
rs1842586	4:67876333	t	c	20324	-4,206	2.594e-05
rs10438231	14:100211950	t	c	18863	4,206	2.597e-05
rs12871671	13:101379923	a	g	14986	-4,206	2.599e-05
rs5745426	1:76331265	t	c	19432	-4,206	2.604e-05
rs1476535	7:114071035	t	c	22322	4,204	2.621e-05
rs2655828	2:167624375	a	g	22195	4,204	2.624e-05
rs8108656	19:44214930	a	t	21053	-4,203	2.629e-05
rs9636289	2:167574098	a	g	19432	-4,200	2.664e-05
rs111323446	8:8986221	a	g	19182	4,200	2.675e-05
rs9287873	2:167574337	t	c	19432	-4,199	2.677e-05
rs11695487	2:167565263	t	c	19432	4,199	2.686e-05
rs1711179	13:101383135	t	c	14986	-4,198	2.69e-05
rs10930242	2:167514250	a	g	19559	-4,198	2.691e-05
rs987811	4:67872428	a	g	20324	-4,198	2.698e-05
rs5745429	1:76332803	a	g	19432	-4,197	2.703e-05
rs8090903	18:69330683	a	g	22322	-4,193	2.749e-05
rs113131652	17:73954563	a	c	12633	-4,193	2.753e-05
rs1605874	2:167570171	a	c	19432	4,193	2.758e-05
rs35290302	1:76326033	t	c	19432	-4,192	2.763e-05
rs12031600	1:76335536	t	c	19432	4,191	2.773e-05
rs540110	18:77339086	a	g	16545	-4,190	2.79e-05
rs11621662	14:100213461	a	c	21626	-4,187	2.824e-05
rs16887743	4:12897986	t	c	22195	4,185	2.846e-05
rs13105325	4:188981810	a	c	21053	4,185	2.85e-05
rs9973418	2:167499266	a	g	19432	4,184	2.864e-05
rs4293823	4:181823631	c	g	22195	-4,183	2.872e-05
rs6666818	1:76318695	t	c	19432	4,181	2.908e-05
rs10803817	2:167543060	t	c	19432	-4,180	2.92e-05

rs1522700	4:181844474	t	g	21836	4,179	2.928e-05
rs16476	7:24330219	t	g	22322	4,179	2.931e-05

antisocial measures in individual cohorts and with a sample-size weighted meta-analysis in METAL.

Supplementary Table 5. Summary Statistics of the female-specific GWAS 1

Summary statistics were generated using linear or logistic regression models of SNP associations with

<i>SNP(RS)</i>	<i>SNP(CHR:BP,AI)</i>		<i>A2</i>	<i>N</i>	<i>Zscore</i>	<i>P-value</i>
rs137997787	5:135894647	t	c	15869.00	-4,772	1.822e-06
rs17114266	14:29243242	t	g	26144.00	-4,750	2.037e-06
rs114302060	4:94664978	a	g	17488.00	-4,746	2.071e-06
rs11161033	14:29246574	a	g	26144.00	-4,706	2.522e-06
rs75462958	2:2003003	t	c	13670.00	-4,691	2.722e-06
rs198558	17:48660714	t	g	25557.00	-4,634	3.594e-06
rs55715619	5:135601253	t	c	24375.00	-4,600	4.223e-06
rs139688854	15:67264485	t	c	10559.00	-4,593	4.361e-06
rs817362	20:62559964	a	g	22691.00	-4,533	5.806e-06
rs77395735	2:127581809	t	g	26228.00	-4,460	8.194e-06
rs73629159	10:8999811	t	c	26895.00	-4,459	8.222e-06
rs78541542	13:105403080	t	c	25544.00	-4,459	8.252e-06
rs12135913	1:246185168	a	g	19683.00	-4,449	8.642e-06
rs191110766	12:33163278	a	t	15869.00	-4,440	9.008e-06
rs113466884	2:127577208	a	g	26228.00	-4,436	9.148e-06
rs13345197	19:2999759	a	g	25973.00	-4,431	9.399e-06
rs74154349	1:246198060	a	t	19683.00	-4,428	9.491e-06
rs56059302	13:105399887	t	c	25544.00	-4,419	9.911e-06
rs55732304	13:105399497	c	g	25544.00	-4,416	1.007e-05
rs79964129	2:127580999	t	c	26228.00	-4,401	1.076e-05
rs78655305	2:127580550	a	c	26228.00	-4,400	1.081e-05
rs150680694	12:33200149	t	c	15869.00	-4,380	1.187e-05
rs12121282	1:246169593	t	g	19683.00	-4,378	1.2e-05
rs74741282	13:105397153	a	g	25544.00	-4,377	1.205e-05
rs78603497	2:127572778	a	t	26228.00	-4,362	1.288e-05
rs4671535	2:64071232	a	c	26895.00	-4,362	1.291e-05
rs11756132	6:23266068	a	g	21678.00	-4,359	1.307e-05
rs2358851	10:20437012	t	c	26144.00	-4,353	1.345e-05
rs10924452	1:246185214	t	c	19683.00	-4,347	1.38e-05
rs16919952	10:20437429	a	g	26144.00	-4,323	1.536e-05
rs17604972	12:45970721	a	g	22446.00	-4,307	1.652e-05
rs77993081	8:2353181	c	g	15869.00	-4,304	1.678e-05
rs6509876	19:54997478	a	g	17913.00	-4,302	1.689e-05
rs3219184	6:31515140	a	g	24561.00	-4,300	1.706e-05
rs10827986	10:20469796	a	g	24485.00	-4,293	1.765e-05
rs138315932	14:34398683	t	c	10559.00	-4,291	1.781e-05
rs55649618	9:17942987	a	g	26228.00	-4,291	1.776e-05
rs73683954	7:28087001	a	g	18567.00	-4,290	1.785e-05
rs10786901	10:107766229	c	g	26895.00	-4,289	1.792e-05
rs11996092	8:2356884	a	c	15869.00	-4,286	1.821e-05
rs80159467	8:110600469	t	c	13670.00	-4,284	1.835e-05
rs62523690	8:135482762	t	c	26144.00	-4,281	1.858e-05
rs28639642	4:71376971	t	c	27311.00	-4,277	1.89e-05
rs518399	19:3000372	t	c	22862.00	-4,273	1.933e-05
rs72840832	10:123888270	t	g	15855.00	-4,269	1.961e-05
rs852807	1:58329157	a	g	27482.00	-4,267	1.985e-05
rs852798	1:58319534	t	g	27482.00	-4,266	1.987e-05

rs7846395	8:88289418	c	g	24977.00	-4,266	1.992e-05
rs76153779	2:127561777	a	g	26228.00	-4,261	2.034e-05
rs10895323	11:102470895	a	g	26895.00	-4,259	2.049e-05
rs80070074	13:105406100	a	c	25544.00	-4,259	2.051e-05
rs55728129	13:105410897	t	g	25544.00	-4,258	2.065e-05
rs852806	1:58324779	a	g	27482.00	-4,258	2.066e-05
rs111513895	2:127561193	t	c	26228.00	-4,258	2.066e-05
rs78644356	2:127561293	t	c	26228.00	-4,258	2.062e-05
rs78985832	2:127565014	a	c	26228.00	-4,258	2.059e-05
rs79611259	2:127561049	a	g	26228.00	-4,256	2.082e-05
rs74411084	2:127561139	c	g	26228.00	-4,256	2.08e-05
rs140464344	1:91220766	t	g	13670.00	-4,252	2.119e-05
rs112370941	2:127562608	a	g	26228.00	-4,247	2.17e-05
rs75668990	2:127561394	t	c	26228.00	-4,245	2.188e-05
rs113858282	2:127561794	a	g	26228.00	-4,243	2.208e-05
rs146281313	7:27064750	a	c	19217.00	-4,242	2.216e-05
rs75521124	13:105411069	t	g	25544.00	-4,241	2.23e-05
rs72669245	1:38948046	a	g	13670.00	-4,236	2.278e-05
rs8087405	18:75982973	t	c	20247.00	-4,236	2.277e-05
rs68092383	6:31511705	a	g	24561.00	-4,236	2.275e-05
rs2049603	7:113986650	a	g	24485.00	-4,234	2.301e-05
rs6904223	6:32894520	t	g	22328.00	-4,228	2.36e-05
rs706412	1:58317833	a	g	27482.00	-4,227	2.373e-05
rs79918411	4:86061157	c	g	23784.00	-4,224	2.401e-05
rs77027609	2:127560000	c	g	26228.00	-4,223	2.416e-05
rs6924224	6:32894506	c	g	20846.00	-4,214	2.513e-05
rs28481280	1:247802670	t	c	26144.00	-4,213	2.518e-05
rs143438296	8:2323018	t	c	13670.00	-4,212	2.534e-05
rs150420599	10:20435379	t	c	23147.00	-4,211	2.544e-05
rs77227210	2:127558962	t	c	26228.00	-4,204	2.618e-05
rs113296793	13:105414525	t	c	25544.00	-4,198	2.697e-05
rs139447375	19:23392907	t	c	12758.00	-4,191	2.775e-05
rs57502576	4:71449279	a	c	25557.00	-4,191	2.775e-05
rs77406822	8:2320773	t	c	13670.00	-4,191	2.78e-05
rs9501239	6:32895580	a	g	20846.00	-4,190	2.789e-05
rs4763733	12:9819374	a	t	22446.00	-4,189	2.806e-05
rs12063317	1:246220439	a	c	17176.00	-4,186	2.84e-05
rs9501240	6:32895643	a	g	20846.00	-4,186	2.834e-05
rs730289	2:161914821	t	c	27482.00	-4,185	2.847e-05
rs17220961	6:33032636	a	g	12457.00	-4,182	2.894e-05
rs76228091	5:57930760	a	c	20139.00	-4,180	2.913e-05
rs17019490	2:4653262	a	g	24485.00	-4,179	2.929e-05
rs323446	13:105419321	t	c	26211.00	-4,178	2.942e-05
rs12217790	10:20437661	a	t	23436.00	-4,177	2.957e-05
rs4319703	15:61608398	a	t	22248.00	-4,175	2.986e-05
rs144668125	4:175693966	a	g	17038.00	-4,171	3.034e-05
rs13061932	3:165264156	t	c	26144.00	-4,163	3.142e-05
rs7335077	13:109971464	a	g	27311.00	-4,162	3.153e-05
rs149898403	8:141735682	a	g	10559.00	-4,161	3.174e-05
rs130970	22:34774585	a	c	27482.00	-4,160	3.184e-05

rs7335054	13:109971424	a	g	27311.00	-4,159 3.197e-05
rs56070685	2:161928267	t	g	25557.00	-4,159 3.201e-05
rs13120855	4:100616883	c	g	17488.00	-4,159 3.192e-05
rs6815796	4:100618105	a	t	17488.00	-4,159 3.202e-05
rs76545544	2:127557953	t	c	26228.00	-4,157 3.23e-05
rs35144150	5:135460330	c	g	26211.00	-4,157 3.219e-05
rs7164364	15:61632898	c	g	20766.00	-4,156 3.237e-05
rs73091037	1:212092589	a	g	10559.00	-4,153 3.287e-05
rs72706839	4:173640028	a	c	18054.00	-4,153 3.281e-05
rs73091032	1:212089356	a	c	10559.00	-4,151 3.303e-05
rs6681376	1:246343670	a	c	19683.00	-4,151 3.306e-05
rs10740967	10:20464491	a	g	27482.00	-4,149 3.345e-05
rs7657411	4:100624532	a	g	17488.00	-4,149 3.346e-05
rs6657610	1:246220416	a	g	19683.00	-4,148 3.359e-05
rs78279126	1:212023232	t	c	10559.00	-4,145 3.405e-05
rs12119107	1:246344906	t	c	19683.00	-4,144 3.418e-05
rs6690727	1:246345212	t	c	19683.00	-4,142 3.438e-05
rs114035167	6:982287	a	g	23503.00	-4,142 3.448e-05
rs11199993	10:123291264	c	g	17172.00	-4,140 3.47e-05
rs12532890	7:36694170	a	t	26144.00	-4,140 3.467e-05
rs71614611	4:100635087	a	t	17488.00	-4,135 3.545e-05
rs1652881	13:105415498	a	c	25544.00	-4,134 3.559e-05
rs117582156	12:128398289	t	c	19371.00	-4,133 3.582e-05
rs12094672	1:246206561	t	c	19683.00	-4,132 3.603e-05
rs6021671	20:50682257	t	g	27482.00	-4,132 3.591e-05
rs60358213	4:71449060	a	g	25557.00	-4,129 3.641e-05
rs889921	2:161917143	a	g	27482.00	-4,128 3.654e-05
rs118160015	8:72921542	c	g	13670.00	-4,128 3.653e-05
rs492286	3:74354251	a	t	24200.00	-4,125 3.701e-05
rs116522310	6:978763	a	t	23503.00	-4,124 3.718e-05
rs55971385	2:161928268	t	c	25557.00	-4,122 3.76e-05
rs2004842	19:54992335	t	c	23358.00	-4,119 3.805e-05
rs114585529	6:979641	a	g	23503.00	-4,119 3.808e-05
rs10975833	9:6795572	t	c	27482.00	-4,119 3.806e-05
rs12080754	1:246185918	t	c	17197.00	-4,118 3.815e-05
rs12085648	1:246186004	a	c	17197.00	-4,116 3.859e-05
rs36104203	4:71454115	t	c	25557.00	-4,115 3.865e-05
rs115221532	5:73188238	a	g	17207.00	-4,113 3.912e-05
rs76859121	8:26952658	a	t	17488.00	-4,113 3.904e-05
rs12354335	1:246188784	c	g	17197.00	-4,112 3.93e-05
rs62189259	2:208810060	t	c	13670.00	-4,112 3.923e-05
rs60166986	13:107279613	t	c	26258.00	-4,109 3.974e-05
rs7080628	10:20445678	t	c	24485.00	-4,107 4.011e-05
rs72631529	2:4650529	a	c	27596.00	-4,104 4.056e-05
rs10924447	1:246181503	t	c	17197.00	-4,103 4.085e-05
rs6746443	2:161920587	a	c	27482.00	-4,102 4.091e-05
rs10209038	2:4651289	a	g	27596.00	-4,102 4.103e-05
rs6426261	1:246184441	a	c	17197.00	-4,101 4.122e-05
rs7174130	15:61609835	t	c	22248.00	-4,101 4.109e-05
rs34695408	6:124231786	c	g	21313.00	-4,099 4.155e-05

rs12141840	1:246334655	t	g	19683.00	-4,098	4.169e-05
rs66816272	15:32238389	t	c	22433.00	-4,097	4.192e-05
rs116984611	8:72909424	a	g	13670.00	-4,096	4.212e-05
rs114190239	6:977701	a	g	23503.00	-4,095	4.214e-05
rs28514495	1:247801870	c	g	23033.00	-4,094	4.247e-05
rs2140615	7:113984768	a	g	27596.00	-4,094	4.233e-05
rs2782987	13:105418388	t	c	26211.00	-4,092	4.268e-05
rs6496476	15:88900454	t	c	27596.00	-4,092	4.269e-05
rs4730633	7:113992074	t	g	27596.00	-4,092	4.281e-05
rs2038380	1:58336349	t	c	27482.00	-4,091	4.301e-05
rs2450437	5:73199538	t	c	15869.00	-4,091	4.288e-05
rs144497169	6:977263	t	c	23503.00	-4,091	4.29e-05
rs10457215	6:110833590	a	c	23033.00	-4,088	4.359e-05
rs143419878	6:975456	a	t	23503.00	-4,088	4.359e-05
rs6973414	7:153524142	t	c	22849.00	-4,088	4.345e-05
rs710848	3:163902423	t	c	27311.00	-4,087	4.37e-05
rs114131590	6:974536	a	g	23503.00	-4,087	4.369e-05
rs138477719	6:975812	c	g	23503.00	-4,087	4.368e-05
rs74946725	1:246330800	t	c	19683.00	-4,086	4.39e-05
rs9491690	6:127417440	t	c	21625.00	-4,086	4.393e-05
rs115992181	6:974002	a	t	23503.00	-4,086	4.385e-05
rs114847280	6:974063	c	g	23503.00	-4,086	4.394e-05
rs1086088	3:163935411	a	g	27311.00	-4,085	4.415e-05
rs79939298	6:973134	a	g	23503.00	-4,085	4.404e-05
rs6079710	20:15203893	t	c	26895.00	-4,084	4.432e-05
rs852782	1:58296910	t	g	24371.00	-4,083	4.446e-05
rs556084	3:163944439	c	g	27311.00	-4,082	4.474e-05
rs111433871	13:105416237	t	g	25544.00	-4,080	4.513e-05
rs483558	3:163941553	a	g	27311.00	-4,080	4.509e-05
rs28503794	1:247802038	c	g	23033.00	-4,078	4.545e-05
rs862823	3:74356600	t	c	24200.00	-4,078	4.533e-05
rs62042282	16:83555635	t	c	22165.00	-4,077	4.557e-05
rs16898452	8:88307005	t	c	27311.00	-4,077	4.56e-05
rs1667799	3:163916755	t	c	27311.00	-4,076	4.589e-05
rs11196257	10:114941162	t	g	15869.00	-4,075	4.604e-05
rs28525571	10:77003807	c	g	18970.00	-4,075	4.601e-05
rs72669230	1:38933251	a	g	25557.00	-4,074	4.628e-05
rs12782650	10:20453062	t	c	24485.00	-4,072	4.666e-05
rs602127	3:163927147	a	t	27311.00	-4,072	4.654e-05
rs1853104	3:163949369	a	c	27311.00	-4,072	4.67e-05
rs651053	3:163950052	t	c	27311.00	-4,072	4.667e-05
rs11011842	10:20467230	a	g	24371.00	-4,071	4.673e-05
rs1609736	3:163948080	t	c	27311.00	-4,071	4.678e-05
rs6661444	1:246331832	t	c	19683.00	-4,070	4.707e-05
rs79612322	2:14338623	t	c	22248.00	-4,070	4.696e-05
rs3010858	1:222015930	t	c	26895.00	-4,069	4.731e-05
rs2061886	2:4648705	a	c	27596.00	-4,069	4.716e-05
rs1667790	3:163950930	t	c	27311.00	-4,068	4.735e-05
rs1667783	3:163951886	t	g	27311.00	-4,068	4.739e-05
rs10112169	8:88277879	t	g	27311.00	-4,068	4.74e-05

rs56041192	1:246332834	c	g	19683.00	-4,066	4.791e-05
rs140700016	20:14118224	a	c	10559.00	-4,066	4.779e-05
rs788894	3:163909559	a	g	27311.00	-4,066	4.773e-05
rs8064563	17:78770152	t	c	21625.00	-4,065	4.795e-05
rs890806	5:177763360	c	g	19015.00	-4,065	4.811e-05
rs6468738	8:88285893	t	g	27311.00	-4,064	4.814e-05
rs6710968	2:231567603	t	c	23033.00	-4,063	4.851e-05
rs826327	19:37495299	a	g	27596.00	-4,062	4.866e-05
rs528492	3:163939121	a	c	27311.00	-4,062	4.865e-05
rs789322	3:163938621	a	g	27311.00	-4,061	4.89e-05
rs28616623	7:153520754	a	t	22849.00	-4,061	4.878e-05
rs1449930	3:163933484	t	c	27311.00	-4,060	4.904e-05
rs942948	10:131847378	a	g	25557.00	-4,059	4.92e-05
rs693096	3:163933856	a	c	27311.00	-4,059	4.925e-05
rs1086090	3:163935274	t	c	27311.00	-4,059	4.928e-05
rs686697	3:163938800	a	g	27311.00	-4,059	4.927e-05
rs624318	3:74356081	t	c	24200.00	-4,059	4.938e-05
rs474623	3:163932902	a	g	27311.00	-4,058	4.939e-05
rs598510	3:163932910	t	c	27311.00	-4,058	4.944e-05
rs1202824	1:58349005	t	c	27482.00	-4,057	4.961e-05
rs524870	3:163939492	a	g	27311.00	-4,056	4.987e-05
rs197262	2:161904700	a	g	27482.00	-4,055	5.012e-05
rs646764	3:163896873	a	g	27311.00	-4,055	5.007e-05
rs611734	3:74355631	t	g	24200.00	-4,053	5.054e-05
rs789311	3:163929621	a	c	27311.00	-4,051	5.107e-05
rs2551049	19:37493617	t	c	27596.00	-4,049	5.145e-05
rs41420948	20:15216195	a	g	26895.00	-4,048	5.157e-05
rs9287805	2:161913632	a	t	24774.00	-4,048	5.169e-05
rs7602906	2:4648041	t	g	27596.00	-4,048	5.173e-05
rs475988	3:74350997	t	c	24200.00	-4,048	5.176e-05
rs140623805	1:246267451	t	c	10559.00	-4,047	5.189e-05
rs112643448	20:41354808	a	g	20243.00	-4,047	5.189e-05
rs672784	3:74352061	t	c	24200.00	-4,043	5.283e-05
rs1916980	7:113995615	a	g	27596.00	-4,043	5.276e-05
rs112955776	6:960919	t	c	23503.00	-4,042	5.289e-05
rs9987355	8:5943185	t	g	22651.00	-4,042	5.303e-05
rs72666806	8:88275898	a	g	27311.00	-4,042	5.296e-05
rs7675940	4:100625606	a	g	17488.00	-4,041	5.313e-05
rs12130884	1:246351051	c	g	19683.00	-4,040	5.344e-05
rs1667821	3:163930774	c	g	27311.00	-4,039	5.358e-05
rs34879128	15:88895932	t	c	27596.00	-4,038	5.388e-05
rs10206503	2:4645034	a	g	27596.00	-4,038	5.398e-05
rs4925567	1:247808221	a	g	26144.00	-4,037	5.42e-05
rs13157474	5:135540385	t	c	26211.00	-4,033	5.495e-05
rs6110555	20:15208752	a	g	26895.00	-4,032	5.531e-05
rs130943	22:34766583	a	g	27482.00	-4,032	5.532e-05
rs74781047	6:147784029	t	c	24018.00	-4,031	5.545e-05
rs11196272	10:114990185	a	c	15869.00	-4,030	5.567e-05
rs77366690	16:86530505	c	g	17910.00	-4,030	5.576e-05
rs1870514	4:151180679	a	t	23033.00	-4,030	5.568e-05

rs10959852	9:11478825	t	g	27596.00	-4,029 5.604e-05
rs564025	3:163950030	t	g	27311.00	-4,027 5.654e-05

h antisocial measures in individual cohorts and with a sample-size weighted meta-analysis in METAL.

Supplementary Table 6. Gene-based association tests (GWGAS) results

Note: GWGAS tests were performed in MAGMA and represent the aggregate effect of all SNPs in a gene

<i>GENE</i>	<i>CHR</i>	<i>START</i>	<i>STOP</i>	<i>NSNPS</i>	<i>NPARAM</i>	<i>N</i>
FOXP2	7	113726382	114333827	702	39	48628
SRXN1	20	627259	634014	21	5	48558
SLC19A2	1	169433147	169455241	29	8	51079
MANSC1	12	12482198	12503475	83	10	50520
CSNK1G2	19	1941188	1981337	104	9	46576
JAM2	21	27011584	27089874	190	22	50347
RP5-850E9	20	627270	656444	57	18	45096
C6ORF165	6	88117701	88174183	166	14	51838
STK17A	7	43622357	43666385	137	10	53657
C6orf165	6	88117730	88221352	289	20	52585
COA1	7	43648055	43769316	334	13	53825
BEST3	12	70037140	70093256	238	19	51500
GYPA	4	145030457	145061904	97	9	43219
LUZP1	1	23410516	23504301	144	15	50756
IER5	1	181057638	181059977	6	2	49493
CNBD1	8	87878670	88627447	1803	60	51218
AL357673.1	1	54635333	54637997	6	1	47916
CCDC136	7	128430811	128462186	63	5	49616
RP11-159D	17	56066399	56082614	25	5	45698
BLVRA	7	43798279	43846939	78	11	51052
MSH4	1	76262567	76378923	388	20	51936
ARID2	12	46123448	46301823	108	13	48795
VEZF1	17	56048910	56065620	19	3	47917
C6orf164	6	88106840	88109467	11	2	50466
INSR	19	7112266	7294045	621	61	47832
POT1	7	124462440	124570037	277	7	52054
HCG27	6	31165537	31171745	75	12	49022
ZFP57	6	29640169	29648887	62	10	48307
SCAF11	12	46312914	46385903	64	10	48941
RP11-159G	3	88108424	88188123	157	4	51630
GABPA	21	27106881	27144771	45	7	48898
C6orf89	6	36839646	36896740	148	12	52211
AP000688.1	21	37402368	37417818	32	6	52441
CGGBP1	3	88101094	88199035	194	5	51230
CTD-2192J1.1	19	12775642	12780211	3	2	40412
SETD4	21	37406839	37451687	116	15	50773
ATP5J	21	27088815	27107984	23	6	50416
RP11-463C	14	77564654	77691805	366	37	51396
CEP57L1	6	109416313	109485135	62	7	48141
C3orf38	3	88198893	88217879	35	3	50458
SIM1	6	100832891	100912805	170	23	50192
AL626787.1	1	166026679	166028709	4	2	53794
APOC1	19	45417504	45422606	8	4	41626
N6AMT1	21	30244513	30257693	47	5	52914
PXDC1	6	3722848	3752260	72	15	48103
NOP14	4	2939660	2965112	50	8	45967
FBXO9	6	52916789	52965671	54	9	42706

SOGA2	18	8705659	8832776	357	47	47593
ZNF654	3	88188254	88193815	9	2	48407
TMEM63C	14	77582911	77725838	496	40	51562
CCDC65	12	49297893	49325623	62	5	51357
RP11-302B	12	49297286	49351148	141	9	51141
AC073610..	12	49315767	49333446	42	5	51324
DTL	1	212208919	212280742	214	23	48013
USH1C	11	17515442	17565963	133	21	49765
FAM215A	17	41994576	41995326	7	1	46081
GABBR1	6	29523406	29601753	262	25	47528
GRK4	4	2965335	3042474	222	17	49669
BLZF1	1	169337208	169365778	68	9	52254
FBXW9	19	12798867	12807457	2	1	40093
CBLN1	16	49311828	49315742	10	4	46147
BAZ2B	2	160175490	160473203	767	46	47874
AKIRIN2	6	88384790	88411927	70	10	51724
AVEN	15	34158428	34331377	531	32	45027
MTFP1	22	30821518	30825045	9	4	48015
UHMK1	1	162467041	162499419	60	4	52722
ARF3	12	49329506	49351334	63	7	50422
MTFR2	6	136552162	136571473	2	1	39449
GPR37	7	124386051	124405681	38	7	49612
SLC7A2	8	17354597	17428082	316	49	46986
CTD-3105H	19	12502763	12551896	213	7	52387
INTS7	1	212113741	212208884	301	16	47654
PSORS1C2	6	31105313	31107127	19	9	44178
RAB11FIP5	2	73300510	73383849	195	18	50168
UGP2	2	64068074	64118696	107	19	46961
FCRL2	1	157715523	157746922	48	10	48626
LBH	2	30454397	30546596	284	26	49224
CD28	2	204571198	204603635	67	9	50707
CXCR4	2	136871919	136875735	4	2	46137
NME7	1	169101769	169337205	632	18	51749
RWDD1	6	116892530	116918838	57	9	53220
UPK1B	3	118892364	118924000	98	21	50319
SLC16A6	17	66263167	66287408	54	9	50729
TIMM13	19	2425622	2427892	8	3	47922
FKBP11	12	49315301	49320257	8	2	49058
ZNF701	19	53059075	53090427	154	23	43226
RPL3L	16	1993975	2007607	35	10	40023
MRPL39	21	26957968	26979829	85	5	50245
COL19A1	6	70576463	70919679	740	57	49561
FLJ00388	1	48226979	48227290	1	1	45036
RP1-102H1	6	88032323	88109459	216	16	51370
TMEM30B	14	61744088	61748558	8	3	44257
C1orf87	1	60452941	60539442	173	30	50149
PLCZ1	12	18836103	18890991	171	20	50524
SPRY2	13	80910111	80915086	6	2	43931
CD2BP2	16	30362087	30366682	3	1	42657
MLST8	16	2254249	2259417	5	2	41420
MLC1	22	50497820	50524331	149	11	52701

ICK	6	52866077	52926600	65	11	45284
ZNF148	3	124944405	125094198	253	9	50600
GNG3	11	62475130	62476673	1	1	41390
NLRX1	11	119037277	119054725	13	4	50011
ASB17	1	76384558	76398116	47	9	48972
KRT14	17	39738531	39743173	6	2	50304
DET1	15	89054790	89089906	73	8	50015
ELMO1	7	36893961	37488852	1550	99	49457
BTBD17	17	72352555	72358085	19	4	45626
NOD2	16	50727514	50766988	68	9	46759
VAX1	10	118888032	118897812	7	2	41522
CCDC181	1	169364108	169429907	158	16	51500
MRPL32	7	42971799	42988557	50	6	51200
TTC22	1	55245385	55266940	62	11	49510
RASGRF2	5	80256491	80525975	705	65	50819
ZNF443	19	12540521	12551926	67	4	53159
NTF4	19	49559050	49568333	16	4	45233
RBM12B-A'	8	94752349	94753001	1	1	49358
PPIL1	6	36822603	36842800	57	10	52122
EXOC4	7	132937829	133751342	1234	31	50735
C1orf234	1	23337327	23342343	8	3	50479
LIPT1	2	99771418	99779620	27	5	44800
DNHD1	11	6518490	6614988	207	27	46420
OR4K14	14	20482419	20483352	2	1	47258
CCDC124	19	18043825	18054800	30	8	40771
LRRC24	8	145747761	145752416	3	1	45619
RABGGTB	1	76251879	76260764	18	5	48957
HINT3	6	126277927	126301387	29	3	45044
STX7	6	132767006	132834337	177	22	50419
CGB7	19	49557531	49562117	15	3	46020
KRT9	17	39722096	39728310	8	1	49508
CDC23	5	137523339	137549032	29	6	48835
GNAZ	22	23412540	23467224	91	7	48687
NNAT	20	36149617	36152092	1	1	51460
RP4-576H2	20	1520790	1600655	110	18	50441
CAPN3	15	42640301	42704516	127	9	50030
UCP3	11	73711326	73720480	24	5	48531
SLC38A2	12	46751972	46766650	20	4	47543
CDC42EP1	22	37956454	37965412	14	3	46709
AL354993.:	20	52105495	52106164	1	1	42124
FIP1L1	4	54243810	55161439	2241	122	50309
GRIA4	11	105480721	105852819	580	32	50587
SLC14A1	18	43304092	43332485	104	7	50898
LTN1	21	30300466	30365270	107	14	50913
KIAA1598	10	118643742	118886097	196	12	45678
KPNA2	17	66031635	66042958	30	3	45077
NMUR1	2	232387871	232395206	29	3	52492
SIRPB1	20	1544167	1600707	50	11	49950
PARP3	3	51976361	51982883	2	1	38982
TMEM215	9	32783497	32787397	9	4	46026
KRT36	17	39642388	39648798	17	5	47490

C1orf177	1	55271736	55307925	127	8	51551
UBE2H	7	129470572	129592789	373	11	52366
PRKAG1	12	49396057	49412980	11	2	50255
SAR1A	10	71907045	71930279	70	9	48767
LY75-CD30	2	160628362	160761221	403	29	50815
LY75	2	160628362	160761260	403	29	50815
CTHRC1	8	104383743	104395225	37	7	51771
AP000350	22	24236613	24241117	23	6	51394
C17orf58	17	65987217	65989765	1	1	39644
GGT7	20	33432523	33460663	44	6	51796
NOL8	9	95059640	95087918	58	7	49920
KIAA1279	10	70748487	70776738	78	12	51983
OST4	2	27293340	27294641	1	1	45812
TMEM63B	6	44094651	44123256	91	13	51381
HTR1D	1	23516993	23521222	9	2	52649
ZNF823	19	11832080	11849824	41	4	44828
CDH12	5	21750782	22853731	2294	92	49157
GLYATL3	6	49467671	49494760	75	7	50780
OR8S1	12	48901137	48923680	89	11	51430
SIRPD	20	1514897	1539489	69	11	51157
WNT10B	12	49359123	49365546	9	3	46658
SLFN13	17	33762115	33775856	37	9	49287
GYPB	4	144917257	145061844	245	22	44289
NTRK2	9	87283466	87638505	860	56	48870
PEX19	1	160246602	160256138	9	4	43397
CCL19	9	34689564	34691274	4	2	51637
Sep-10	2	110300559	110371783	155	16	46379
SOWAHC	2	110371911	110376563	10	3	50864
RSPH1	21	43892596	43916464	60	15	49653
TRMT11	6	126307576	126360422	38	3	45946
NXPE2	11	114549108	114579362	92	14	52187
ATP8B3	19	1782074	1812275	73	15	41845
NPAS3	14	33404139	34273382	2488	247	48630
FBXL14	12	1675159	1703331	37	12	36020
ANKK1	11	113258513	113271140	37	7	46792
MATN3	2	20191872	20212455	40	10	50154
MED8	1	43849588	43855479	4	2	45219
TRAPPC4	11	118889142	118896164	27	3	49339
RTTN	18	67671029	67873181	318	14	38280
MARCH9	12	58148881	58154190	2	1	49901
RBM33	7	155437145	155574179	314	9	51853
ARSG	17	66255323	66418872	343	53	46348
LRP10	14	23340822	23350789	8	3	48436
RPS6KA2	6	166822852	167319939	1480	128	48590
GAL	11	68451247	68458643	11	3	44350
CDCP1	3	45123770	45187914	180	48	48747
RAP1GDS1	4	99182535	99365012	269	7	48123
SLC10A6	4	87744621	87770416	29	8	47608
AUTS2	7	69063905	70258054	2182	76	50428
LRP2	2	169983619	170219195	640	63	49089
FAM69B	9	139607022	139618502	30	6	41171

CCP110	16	19535133	19564730	88	11	48658
TXNL4B	16	72078188	72128330	121	15	48734
NSUN4	1	46805849	46830824	149	3	54700
STARD3NL	7	38217824	38270272	143	17	53063
TEDDM1	1	182367252	182369751	7	2	50854
CYB561A3	11	61116217	61129771	2	1	39348
MEOX2	7	15650837	15726437	234	22	50428
TRIM66	11	8633584	8693413	122	12	52416
PGP	16	2261998	2264808	6	2	45579
TEX101	19	43905648	43922763	47	6	47643
DDX21	10	70715884	70744829	52	12	49082
INSM2	14	36003248	36006260	3	1	40144
GPR142	17	72363546	72368761	8	3	43433
CDKN1A	6	36644305	36655116	35	8	50492
NR2F2	15	96869167	96883492	12	2	43401
AC138655.	2	47799601	47801998	8	2	45575
KRTAP5-5	11	1651033	1652160	5	2	52991
KCTD6	3	58477841	58488087	14	4	51950
C6	5	41142336	41261540	330	25	49580
VPS39	15	42450899	42500514	75	8	49155
SFXN5	2	73169165	73302747	186	11	49268
C10orf11	10	77360998	78319925	1587	111	47419
TCEA2	20	62681189	62703700	55	12	45631
STX19	3	93733213	93747454	11	3	47547
CFHR3	1	196743925	196763203	13	1	44499
POU6F2	7	39017598	39532694	1370	58	52589
METTL18	1	169761670	169764107	6	3	52290
AC132872.	17	80214131	80216080	2	1	34900
PDZD2	5	31639517	32111037	1567	175	47636
NFASC	1	204797779	204991950	512	47	46626
CHN2	7	29161890	29553944	1246	112	50463
TVP23B	17	18684308	18710027	38	7	50632
CLEC19A	16	19297061	19333467	116	13	50450
RASA2	3	141205889	141334184	132	10	49696
MAMSTR	19	49215999	49222978	15	3	47729
SOBP	6	107811162	107981357	270	29	45641
TMBIM1	2	219138915	219157309	43	3	49674
DAND5	19	13075973	13085567	11	5	41152
HAO2	1	119911402	119936753	51	8	48677
DPYSL5	2	27070615	27173219	125	7	49810
SGCZ	8	13947373	15095848	5532	160	49864
DOK5	20	53092136	53267710	356	22	47309
FZD6	8	104310661	104345094	99	13	52345
GANC	15	42565431	42645864	199	9	51002
GPLD1	6	24424793	24495433	446	30	49531
LINC00923	15	98285448	98417780	519	34	50195
PLA2R1	2	160788519	160919121	371	28	49233
AC025278.	19	7011514	7013338	10	2	46843
RP11-297M	16	9760742	9770700	26	5	53015
RTKN	2	74652963	74669549	10	3	36094
MAP1LC3A	20	33134658	33148149	20	4	50547

LIPI	21	15481134	15583166	333	18	51752
PLN	6	118869461	118881893	22	6	49762
WDR83OS	19	12778885	12782170	5	3	42479
XRN1	3	142025449	142166904	151	14	50043
CXCL17	19	42932440	42947200	12	1	51613
GABRB1	4	46995740	47428461	913	59	50131
CCDC84	11	118868852	118886501	42	5	47859
CSMD3	8	113235157	114449328	2621	62	50557
HOXB1	17	46605888	46608359	4	1	52878
UBE2M	19	59067079	59070327	3	1	42841
MAVS	20	3827487	3849280	51	14	43812
CELF4	18	34823010	35146000	758	79	50125
DCDC1	11	30851916	31391357	600	18	50470
LY6G6C	6	31686425	31689622	6	3	44077
BRINP1	9	121915736	122131745	419	41	48477
ANKRD9	14	102973179	102976136	8	2	49921
C11orf70	11	101918174	101955291	76	7	52156
PDS5B	13	33160564	33352157	273	8	50207
KCTD17	22	37447779	37459430	12	4	47006
RTDR1	22	23401593	23487208	144	10	49547
REM2	14	23352374	23356895	5	3	46291
C1QTNF1- <i>A</i>	17	77015291	77023737	8	2	52045
LIPE	19	42905659	42931578	5	1	38619
RAVER2	1	65210778	65298915	139	13	51537
TSPAN5	4	99391518	99579780	453	46	48087
RPS2	16	2012053	2014861	17	3	44749
CNIH1	14	54893654	54908149	25	4	45107
PMP2	8	82352561	82359758	12	3	45889
AC007461.	17	70036164	70036872	4	2	52995
TLE2	19	2997636	3047633	150	26	41616
LANCL2	7	55433141	55501435	166	11	53096
CPVL	7	29034847	29235067	635	65	49791
B4GALT3	1	161141100	161147287	7	3	50717
CNPY3	6	42896938	42907025	20	6	49712
DKFZP434E	11	77184416	77188074	8	3	44175
SCIN	7	12610203	12693228	289	37	49687
LYG2	2	99858709	99871745	20	6	45033
ABLIM3	5	148521046	148640105	261	17	48647
ZNF830	17	33288549	33290205	3	2	45724
ACTL10	20	32254304	32256331	3	1	49804
XRN2	20	21283942	21370463	143	11	48744
NTS	12	86268073	86276770	20	3	53003
NELL2	12	44902058	45315631	798	43	51242
PXT1	6	36358328	36410666	147	11	51341
CGRRF1	14	54976530	55005567	32	6	45228
CASC5	15	40886218	40956540	122	10	47825
CDHR3	7	105517242	105676877	508	67	50416
AAMP	2	219128850	219134980	9	3	45292
CNOT4	7	135046547	135194875	214	23	51497
OR2B11	1	247614255	247615308	6	2	48305
ABLIM1	10	116190872	116444762	629	55	50235

USP21	1	161129240	161135513	4	2	51633
NFYB	12	104510855	104532067	38	9	51151
TBC1D7	6	13266774	13328815	273	14	49414
TRNT1	3	3168600	3192563	70	9	47732
SESN1	6	109307640	109416022	172	7	50370
FCRL3	1	157644111	157670647	40	7	50753
P2RY12	3	151055168	151102600	129	16	51287
TFEB	6	41651716	41703997	142	24	50646
KIAA0930	22	45586219	45636650	177	20	50368
ZFAND1	8	82613569	82645138	109	11	49029
LRRC53	1	74935562	74978298	25	3	48091
LACTBL1	1	23279536	23291831	33	8	47203
ZNF668	16	31072813	31073451	1	1	50758
FRMD3	9	85857905	86153461	1053	71	51753
STEAP3	2	119981384	120023228	138	19	50375
SMAD5	5	135468534	135524435	124	4	51454
GLTPD1	1	1260136	1264277	2	1	30993
CTD-3105H	19	12543917	12595630	180	10	52535
ZFP3	17	4981543	4999669	42	8	50332
PLIN1	15	90207596	90222658	32	9	44824
TMEM179E	11	62554887	62557877	4	2	43897
LRRC14	8	145743376	145750557	6	2	43172
GCLC	6	53362139	53481768	355	46	47575
YAP1	11	101981192	102104154	236	14	50874
PAPOLG	2	60983365	61029220	91	12	52231
SFT2D3	2	128458597	128461385	9	4	45631
VWCE	11	61025762	61062896	8	3	42350
DDX50	10	70661034	70706603	120	16	50323
SLC35A1	6	88180341	88222054	117	13	53568
PLA2G4F	15	42433332	42448839	47	9	46311
TMPRSS11I	4	68918916	68995598	146	8	50632
DLX4	17	48046334	48052321	13	3	45846
E2F4	16	67226072	67232821	10	3	42325
OR1F1	16	3254247	3255188	3	1	42485
RPS25	11	118886422	118889401	11	2	47069
COX6A2	16	31439052	31439967	1	1	41280
ISL1	5	50678921	50690564	19	6	46678
GDE1	16	19513015	19533467	54	7	48567
MRPL30	2	99797542	99814089	38	6	43616
NXN	17	702553	883010	681	88	42633
ATP6V1E1	22	18074902	18111584	166	10	51808
SHH	7	155592680	155604967	16	6	35235
VWA5B2	3	183948217	183960117	22	4	50367
HS2ST1	1	87380331	87602334	401	13	48382
SLC11A1	2	219246752	219261617	19	4	47368
NAPB	20	23355159	23402125	140	11	51286
KMT2D	12	49412758	49453557	33	6	47779
HMHA1	19	1065922	1086627	70	14	42244
SYT3	19	51124564	51171651	95	16	42689
AC092687	2	10987703	10995081	36	7	49186
SBF2	11	9800214	10315754	1466	34	51256

ZNF671	19	58231119	58238992	16	6	49720
Sep-15	1	87328132	87380107	103	6	49090
CBX5	12	54624724	54673886	34	6	44573
SACS	13	23902965	24007841	311	33	50171
QPCTL	19	46195741	46207247	21	7	44806
GLB1L	2	220101328	220110200	7	3	43574
TRIM39	6	30294256	30311506	34	9	47798
CTD-2215E	5	96424779	96519354	195	34	48182
ARRDC4	15	98462784	98517068	216	26	44876
ARFIP2	11	6496910	6502666	4	2	49612
NYAP2	2	226265364	226518734	393	32	50800
GNAS	20	57414773	57486247	156	30	46371
AP001362.	11	65358665	65359947	1	1	44731
NDUFAF7	2	37458774	37480546	61	10	49824
LSM12	17	42112003	42144987	35	7	48711
RAMP3	7	45197390	45225901	190	10	49632
HNRNPR	1	23630264	23670829	32	5	45523
NUTM2D	10	89117425	89130452	2	1	41721
SNRNP70	19	49588676	49611862	38	11	46145
HPN	19	35531410	35557475	81	13	48614
ZNF133	20	18269121	18297640	81	14	49894
PLEKHJ1	19	2230002	2237703	8	2	41009
C22orf24	22	32329507	32341504	37	10	49110
GAL3ST1	22	30950622	30970574	54	19	46698
GSTA3	6	52761437	52774483	28	6	43532
RPUSD2	15	40861499	40866659	10	3	47395
PLEKHM1	17	43513266	43568115	87	6	50097
SH2B3	12	111843752	111889427	31	3	48438
GPT	8	145728356	145732557	4	1	42894
GPAT2	2	96687694	96705199	5	2	45730
MAX	14	65472892	65569413	193	20	47787
GMFB	14	54941202	54955914	15	3	45588
PIGH	14	68048672	68067004	57	10	47048
MED12L	3	150803484	151154860	700	40	49917
VNN3	6	133043926	133055904	41	7	49568
CHIC2	4	54875956	54930857	58	6	45635
TAS2R20	12	11149094	11150474	11	2	47085
KIF20A	5	137514408	137523404	10	5	44359
KANK4	1	62702651	62785085	312	22	50473
WDR35	2	20110021	20189892	170	18	51061
CEP78	9	80850978	80894606	85	13	48222
DHX38	16	72127461	72146811	45	6	45794
CADM2	3	85008132	86123579	2559	47	49341
PTPN13	4	87515468	87736324	546	13	50253
PSAT1	9	80912059	80945009	139	17	51459
TIMM23	10	51592080	51623365	5	2	46295
ITGB7	12	53585102	53601091	27	6	44978
GLUL	1	182350839	182361341	26	5	48449
HINFP	11	118992297	119006752	28	3	52905
C1QL2	2	119913819	119916465	9	2	48399
ARMC9	2	232063260	232239548	344	28	47965

SPAG9	17	49039535	49198226	146	10	50069
C11orf68	11	65684279	65686588	1	1	33650
NKAIN2	6	124125286	125146803	2343	174	48876
TMEM87A	15	42502730	42565861	71	9	47705
CHAF1B	21	37757676	37791313	100	11	46458
TRIM24	7	138145079	138274738	162	18	50173
POLR1E	9	37485932	37503694	104	4	53583
C20orf26	20	20033158	20341346	881	50	46975
ST6GALNA4	9	130647600	130667687	24	6	39075
MATR3	5	138609441	138667360	38	4	43417
BIRC5	17	76210267	76221717	63	8	51544
GTF2E2	8	30435835	30515768	147	16	50322
ANKRD65	1	1353800	1357149	3	1	37673
WDR5B	3	122130715	122134882	5	2	51601
PLAA	9	26904081	26947461	134	14	50820
TRUB1	10	116697952	116737430	76	11	48155
FBXO28	1	224301789	224349749	98	8	51295
SLC25A33	1	9599541	9645237	45	5	43783
LIX1	5	96427574	96478576	63	9	48338
DEGS1	1	224363458	224381143	39	8	51225
S100A5	1	153509623	153514241	7	2	47424
WDR83	19	12777614	12786646	10	5	41705
ARL17B	17	44352150	44439130	20	2	48001
KRT16	17	39766030	39772151	4	1	54709
RAB6B	3	133543083	133614680	180	38	48154
STC2	5	172741716	172756506	15	4	38851
HSH2D	19	16244838	16269386	57	14	47982
TRAPPC2L	16	88922628	88929094	25	4	38645
MADCAM1	19	489176	505347	15	6	34951
ENAM	4	71494461	71552533	60	7	40810
TUSC2	3	50357458	50365682	4	2	40635
HSD17B3	9	98997588	99064434	159	22	51398
IL6	7	22765503	22771621	16	4	43015
PPARG	3	12328867	12475855	298	19	49497
GNG11	7	93551011	93557922	14	5	41761
FBXO46	19	46213887	46234162	22	8	44645
ATF4	22	39915700	39918691	2	1	43311
CLPSL1	6	35748794	35761452	34	7	51289
CNPY2	12	56703626	56710120	7	3	48065
RBM15	1	110881128	110889299	8	3	51806
CLCN3	4	170533784	170644824	223	17	51446
KIF25	6	168396921	168445769	192	26	48890
LEMD3	12	65563351	65642107	64	8	49818
CFHR1	1	196788887	196801319	7	2	43883
ABHD16A	6	31654726	31671221	30	7	46557
TPST2	22	26921458	26992681	259	27	51362
SMC3	10	112327449	112364394	85	7	50329
BPTF	17	65821640	65980494	194	4	47161
FBXL15	10	104178946	104182893	3	2	49805
RP11-286N	11	61196692	61253294	51	2	49838
MTMR9	8	11141925	11185646	87	8	48982

OSM	22	30658818	30662829	7	4	45505
SMIM18	8	30496117	30503581	11	3	49681
TIMM10B	11	6502715	6530208	63	7	49282
FAM183A	1	43610824	43622067	40	7	45933
MAG	19	35783028	35804707	39	8	50236
ITGB8	7	20370325	20455377	294	16	50909
JUND	19	18390563	18392432	2	1	48818
GAD2	10	26505236	26593487	179	10	49275
C2orf81	2	74641304	74648718	7	2	40891
OR13G1	1	247835320	247836365	7	2	47590
OTUB1	11	63753325	63769283	24	4	44956
SLC24A3	20	19193290	19703581	1347	92	48213
CCDC153	11	119060347	119067479	9	4	50449
LACTB	15	63413999	63434260	48	6	48631
ONECUT3	19	1752372	1780987	39	8	42091
KLC1	14	104028233	104167888	299	16	50263
TRIM22	11	5710919	5758319	238	28	50607
WDR54	2	74648805	74652882	2	1	42041
WDR70	5	37379314	37753537	658	23	50921
GCLM	1	94350761	94374966	55	9	46691
PTGER3	1	71318036	71513491	547	37	50089
TRIM59	3	160150233	160203561	92	14	48889
WNT3	17	44839872	44910520	103	17	47324
SLC35G5	8	11188397	11189717	7	2	48783
SI	3	164696686	164796283	174	10	50886
OR10AG1	11	55734975	55735990	11	1	55048
ALCAM	3	105085753	105295744	572	29	50786
AC087645.	17	76210462	76220740	56	7	51683
C21orf128	21	43522244	43528644	29	5	51996
RAD51C	17	56769934	56811703	64	10	48266
TUBA1B	12	49521565	49525180	4	1	49009
CTD-2349B	16	19125324	19184900	58	9	39041
FAM53C	5	137667624	137685416	37	8	50057
HSD3B7	16	30996519	31000473	6	2	47714
MPC1	6	166778407	166796486	22	2	48849
CBL	11	119076752	119178859	112	11	49151
AC107021.	3	145782358	145784156	3	2	52784
TNNI2	11	1860219	1862910	5	2	36070
MTL5	11	68474908	68519032	65	6	50182
TOR2A	9	130493803	130497604	11	4	43224
RP5-1052IE	1	87458692	87634884	329	20	48440
PKLR	1	155259630	155271225	12	2	47251
RP11-73M:	14	104029299	104152261	263	15	50469
ZC3HAV1L	7	138710452	138720775	29	3	51279
TIMP3	22	33197687	33259030	116	23	50162
PSG2	19	43568363	43587197	78	7	32019
PAPPA2	1	176432307	176814735	736	35	50807
WNT16	7	120965421	120981158	32	6	45377
TCF25	16	89940000	89977792	94	4	47396
FAM96B	16	66965959	66968326	3	2	41571
SPRYD3	12	53458388	53473204	26	7	47087

ECHDC3	10	11784365	11806069	58	7	52652
NDNF	4	121956768	121994176	96	15	48790
NKX2-2	20	21491648	21494664	4	1	49423
CABYR	18	21718942	21741567	35	5	48850
LIN9	1	226418850	226497570	112	16	49112
RAB3IP	12	70132461	70216984	192	20	52645
GPR161	1	168053997	168106821	91	10	52274
RNASE7	14	21510385	21512393	6	3	44122
TUBA1A	12	49578579	49583107	4	1	46010
ADA	20	43248163	43280874	79	18	48407
MSI2	17	55333212	55762046	1019	127	46753
ZNF536	19	30719197	31204445	941	107	48466
MGAT4C	12	86372516	87232681	1749	37	50067
B3GNT3	19	17905637	17923891	56	10	43598
PLAU	10	75668935	75677255	11	2	46311
CHPF	2	220403669	220408509	10	2	46805
AKT2	19	40736224	40791443	91	11	47958
SMIM5	17	73629514	73637484	6	2	44375
ARHGAP11	15	30916697	31065196	167	10	50877
ASIC4	2	220378892	220403494	44	8	46398
SZRD1	1	16679070	16724640	85	9	51528
HNRNPA1	12	54673977	54680872	6	3	45967
NUP214	9	134000948	134110057	173	11	49395
BLOC1S4	4	6717842	6719387	1	1	35113
BCL11A	2	60678302	60780702	146	28	47818
ATF6B	6	32065953	32096030	64	20	47280
GJB4	1	35225342	35229325	14	7	37776
SH2D3C	9	130500596	130541020	76	11	42133
C1orf64	1	16330731	16335302	14	4	50306
FLNB	3	57994127	58157982	343	27	48619
DIAPH3	13	60239717	60738121	1030	26	51020
ECE1	1	21543740	21671997	315	31	50617
GTF3C5	9	135906076	135933890	45	4	46216
DHODH	16	72042487	72058954	47	9	51421
RNF144B	6	18368779	18469105	449	34	51227
RAB22A	20	56884752	56942563	154	17	45430
KRT15	17	39669995	39678781	19	2	46873
PTCRA	6	42883727	42893573	21	4	52546
AP003774.	11	64216546	64219126	3	2	50855
C10orf55	10	75669727	75682535	15	2	48124
B3GALNT1	3	160801671	160823172	37	5	50427
ALOX5	10	45869661	45941561	188	20	48595
NOS2	17	26083792	26127525	103	16	50585
TRIAP1	12	120881764	120884215	1	1	55857
P2RX3	11	57105848	57138073	84	11	49239
OR51A7	11	4928600	4929538	4	2	40954
AK8	9	135600965	135754164	369	28	50293
KIAA1377	11	101785746	101871789	182	15	48646
C3	19	6677715	6730573	175	23	48601
NPIPB11	16	29392675	29415350	1	1	39646
SLC25A21-	14	37641093	37643016	4	2	48305

OR7D2	19	9296279	9299493	5	2	41424
ZFP36L1	14	69254377	69263190	16	4	51433
CD200	3	112051194	112081659	87	12	51189
ORMDL1	2	190635049	190649097	30	5	49711
CLPSL2	6	35744371	35747329	6	2	51401
CASP12	11	104756445	104769397	3	2	41263
OR8I2	11	55860753	55861762	4	1	53794
FBXO10	9	37510889	37588871	201	23	51317
SLC26A8	6	35911291	35992645	180	20	51000
PARD3B	2	205410516	206484886	2290	117	48868
ZUFSP	6	116956781	116989957	65	8	50611
ANKRD7	7	117854727	117882785	57	6	50281
COL3A1	2	189839046	189877472	58	10	45508
TCFL5	20	61472467	61493115	56	5	49236
LYVE1	11	10578513	10633236	135	20	45991
HSBP1L1	18	77724561	77730822	18	4	50936
ESPNL	2	239008798	239041928	154	19	46307
MYBL2	20	42295754	42345136	101	8	50917
PRG3	11	57144242	57148623	8	4	43711
XXbac-BPG	6	31654739	31681849	53	12	46298
TMEM229/	7	123670973	123673523	2	1	53542
OLFM3	1	102268130	102462586	573	53	50644
PDZRN4	12	41582250	41968392	1158	44	49221
CCDC179	11	22868477	22881972	42	5	54572
DOPEY2	21	37529080	37666572	493	47	52093
ARHGAP10	4	148653214	148993931	483	30	44047
AK4	1	65613232	65697828	164	13	49892
SYBU	8	110586207	110704020	229	20	50779
FNIP2	4	159690290	159829201	157	12	48878
IQCF2	3	51895645	51897440	1	1	36524
SPATA32	17	43331760	43339479	22	4	49348
C10orf53	10	50887697	50918307	89	9	48106
TNRC6A	16	24741016	24838953	136	12	51435
KIAA1191	5	175773064	175788971	28	6	49612
DLGAP2	8	1449532	1656642	784	38	48544
CHORDC1	11	89934328	89956532	65	8	51478
C9orf69	9	139006427	139010731	7	4	45426
TRIM36	5	114460459	114516243	113	13	47434
KRT19	17	39679869	39684560	6	1	47450
KCNJ1	11	128706210	128737268	73	11	50905
FDCSP	4	71091788	71100969	16	5	53281
RPS27L	15	63418071	63450220	99	12	48925
KDM1A	1	23345941	23410182	58	6	49955
PPOX	1	161136200	161147803	16	4	50661
CSN3	4	71108305	71117145	66	5	53910
RTN2	19	45988547	46000319	30	6	48805
AUH	9	93976097	94124195	232	17	50770
WNT7B	22	46316242	46373009	70	12	33167
C16orf72	16	9185505	9215497	59	9	50576
GALNT4	12	89913185	89920039	12	3	53143
POC1B-GAI	12	89913185	89920039	12	3	53143

WDR24	16	734622	740444	11	3	39568
THEMIS2	1	28199055	28213196	42	7	46981
RP11-1084	5	33987279	34124633	196	18	49543
NEB	2	152341850	152591001	305	22	46692
OR4S2	11	55418380	55419315	2	1	48497
PRH1	12	11033610	11036854	9	1	47447
XRCC3	14	104163946	104181841	27	6	48651
SNX20	16	50700211	50715264	14	6	40976
MAPK10	4	86936276	87515284	1445	51	48779
UBE2T	1	202300785	202311108	10	3	54214
HYAL1	3	50337320	50349812	12	4	45688
PEX16	11	45931220	45940363	16	3	47343
OAZ2	15	64979772	64995480	22	5	47262
FOSB	19	45971253	45978437	20	5	45553
MIXL1	1	226411319	226414755	2	1	51068
TSTD1	1	161007421	161008780	2	1	44531
LOH12CR2	12	12508342	12510001	6	3	43212
TGFBI	5	135364584	135399507	77	8	46824
PAX5	9	36833272	37034103	695	58	50111
KRBA2	17	8271955	8280029	14	4	49411
C2CD3	11	73723763	73882255	215	14	48548
PIP4K2A	10	22823778	23003484	447	22	50588
C12orf68	12	48577366	48579709	4	2	46578
NIPSNAP3E	9	107526438	107539738	34	7	50788
C14orf23	14	29241910	29282493	53	15	44756
TMEM198	2	220408385	220415317	8	1	52614
OR52M1	11	4566421	4567374	5	3	44623
BDNF	11	27676440	27743605	86	11	48132
SORCS2	4	7194265	7744554	2678	228	47678
CBFA2T3	16	88941266	89043612	301	27	40844
GCHFR	15	41056218	41059906	2	1	48709
HIST1H1D	6	26234440	26235216	3	1	55790
ARHGAP27	17	43471275	43511787	92	6	51847
MOG	6	29624758	29640149	81	15	44168
ANAPC2	9	140069236	140082989	21	1	38372
OGN	9	95146249	95166978	45	5	49949
CEACAM8	19	43084393	43099207	3	1	48466
MCMDC2	8	67782984	67834283	56	7	46653
EF5	14	23825611	23834961	18	4	47552
RP11-613N	9	37512544	37592466	209	24	51163
RP11-446E	1	54606897	54665746	144	24	49230
RRAD	16	66955582	66959547	5	2	34563
RECQL4	8	145736667	145743229	9	1	45348
SPRED3	19	38879061	38886881	21	3	50481
GALNT7	4	174089904	174245118	227	25	46837
AC135178	17	8261731	8263538	1	1	45351
RAD51	15	40986972	41024354	65	7	50105
GABARAPL1	16	75600249	75611779	25	5	39687
SNX19	11	130745331	130786404	207	12	51576
CCDC28B	1	32665987	32670988	2	1	33750
DAB2	5	39371780	39462402	261	25	50596

RP11-5140	6	167271582	167369612	248	30	46002
POC1B	12	89813495	89919801	237	18	52797
OR5K2	3	98216448	98217496	1	1	53918
MTUS2	13	29598748	30077892	1476	74	50095
RGS19	20	62704534	62711323	9	3	46830
OTUD3	1	20209006	20239438	69	13	51394
PPM1E	17	56833230	57058983	289	15	46209
C1QTNF3	5	34019553	34043937	68	6	50312
EFNA5	5	106712590	107006596	653	81	50164
BCCIP	10	127512115	127542264	36	6	48111
SMARCD3	7	150935850	150974982	98	17	48996
KRBOX1	3	42850938	43097363	460	30	49191
CIT	12	120123595	120315095	408	27	46544
DCN	12	91539025	91576900	32	4	47264
TPGS2	18	34359987	34409158	86	5	52359
S100A7	1	153430220	153433177	6	2	54124
ALOX15B	17	7942335	7952452	44	9	49068
LPAR2	19	19734477	19739739	4	1	50112
GNRH2	20	3024268	3026393	4	1	52674
TRMT1L	1	185087220	185126204	56	4	51275
PPM1N	19	45992035	46005768	35	6	48417
PLEKHA3	2	179345195	179381189	59	11	46852
C17orf112	17	51062880	51065012	3	2	45652
MORC3	21	37692487	37758446	179	10	45030
CHST6	16	75510949	75529282	33	10	42015
CHPF2	7	150929575	150935908	11	3	54779
UBE2R2	9	33817565	33920402	237	19	52298
ALOX12	17	6899384	6914055	40	5	48563
SYVN1	11	64889252	64902004	13	5	48852
CES3	16	66995140	67009051	12	4	45243
HELZ	17	65066554	65242105	254	14	42676
A3GALT2	1	33772367	33786699	29	7	46574
GZMA	5	54398476	54406080	10	2	43039
PPP2R5E	14	63838075	64010092	346	17	48706
CLIC6	21	36041688	36090525	87	9	49192
ALG3	3	183960089	183967336	11	4	45733
GNRHR	4	68605046	68620078	43	6	44410
FUT4	11	94277017	94283063	6	4	41707
MAP7	6	136663875	136871957	136	4	46275
CLN8	8	1703944	1734738	87	8	50452
EMX1	2	73143389	73162020	13	3	47196
PLD2	17	4710391	4726729	42	10	42315
C2orf78	2	74011316	74044274	5	2	47038
TTC31	2	74710200	74722013	4	1	33272
GPR124	8	37641709	37702414	81	17	43623
UBE2E3	2	181831975	181941312	351	12	51916
DR1	1	93811445	93835055	37	4	49781
BEST2	19	12862516	12869272	3	2	42509
STEAP4	7	87905744	87936206	46	5	52237
NAV1	1	201592411	201796102	418	39	48570
AC026461.	16	56662971	56666150	9	4	48243

ALS2CR11	2	202352148	202483901	340	17	49511
C19orf18	19	58469805	58485902	43	6	51615
MCL1	1	150547032	150552066	6	4	45521
CDH22	20	44802372	44937137	248	38	48714
PAPD7	5	6714718	6757161	176	19	51230
CES2	16	66968347	66978999	11	4	41534
KRTAP10-8	21	46031996	46032871	1	1	40758
CAMK2A	5	149599054	149669854	119	19	46758
ZNF709	19	12572373	12662288	204	17	48256
CLNK	4	10488019	10686489	629	31	50581
NPY1R	4	164245113	164265984	47	8	46798
MANEAL	1	38259474	38266809	4	2	45226
SBF1	22	50883429	50913454	73	14	45856
DIAPH1	5	140894583	140998622	153	23	49482
BRD8	5	137475455	137514675	39	7	48093
OBSL1	2	220415451	220436581	48	8	46003
ZFP90	16	68563993	68609975	165	6	52230
MYH9	22	36677327	36784063	240	28	45451
WDR93	15	90234028	90286869	142	9	52274
NCOA4	10	51565108	51590734	26	5	48116
DLK1	14	101192042	101201539	20	7	47241
ATP9A	20	50213053	50385173	655	30	50887
PRB1	12	11504757	11548500	63	8	44075
PRPF40A	2	153508107	153574511	129	13	50914
TSTA3	8	144694788	144700218	19	4	44376
C12orf44	12	52463030	52471278	25	4	43310
VPS4B	18	61056423	61089716	72	8	51224
AC027309.	5	172036245	172036436	1	1	56632
CHRM5	15	34260921	34357291	237	17	47384
GPN2	1	27202624	27216788	18	3	49461
NSA2	5	74062817	74072737	17	3	51362
CYB5RL	1	54638009	54665709	41	14	46985
SCN1A	2	166845670	166984523	345	20	51252
HNRNPD	4	83273651	83295656	38	3	49392
PAPD5	16	50186829	50269221	139	13	44971
GTF2H1	11	18343842	18388591	79	9	46116
CDK14	7	90095738	90839905	2005	68	49820
AC000003.	17	10048831	10050277	7	3	47675
TDG	12	104359582	104382652	85	14	47492
TMEM38B	9	108456825	108538893	195	7	47366
CAAP1	9	26840683	26892802	109	16	48866
CGA	6	87795216	87804824	25	5	51412
ATG4C	1	63249806	63331184	142	10	52096
LAMTOR2	1	156024543	156028301	7	4	42151
GRPEL2	5	148724993	148734146	13	4	45508
HCN3	1	155247374	155259639	17	2	46962
ZNF436	1	23685941	23695935	26	5	47513
BLCAP	20	36120874	36156333	44	5	49007
PCP4L1	1	161228517	161255240	83	13	49941
ZNF462	9	109625378	109775915	195	30	47491
UCHL1	4	41258430	41270472	39	7	50225

IL22	12	68642022	68647387	13	5	50027
PHF7	3	52444673	52457657	11	5	46530
ETS2	21	40177231	40196879	36	7	49656
ATP1B1	1	169074935	169101960	89	16	47202
SPATA21	1	16713612	16763919	114	17	49528
GNA14	9	80037995	80263223	571	69	47150
RP11-272B	12	59917059	59917965	2	1	51306
LMNB2	19	2427636	2456994	98	11	44743
PARP9	3	122246771	122283424	73	10	52473
OR10T2	1	158368312	158369256	7	2	52627
MT2A	16	56642111	56643409	5	3	47199
SHISA8	22	42307297	42310570	9	2	51030
HABP4	9	99212483	99253618	65	6	49380
PLK5	19	1524073	1535455	46	8	40796
METTL12	11	62432781	62435968	5	3	40730
AC121757.	12	52709128	52709790	3	2	50020
PTER	10	16478942	16555736	238	20	50383
OGDHL	10	50942689	50970425	71	10	47831
NCOA6	20	33284722	33413452	163	11	50183
RPGRIP1	14	21756098	21819460	132	17	49768
CLDN1	3	190023490	190040264	79	18	50348
AL441883.:	6	13615728	13621126	3	2	50618
LENG9	19	54972981	54974894	2	1	38807
UPF2	10	11962021	12085169	363	17	51589
CLCA1	1	86934051	86965972	113	23	50393
TAS2R19	12	11174218	11175219	3	1	50711
STX3	11	59480929	59573354	215	6	48695
PRKCE	2	45878484	46415129	1755	174	47865
OGFOD3	17	80347099	80376513	73	12	46151
PDK1	2	173420101	173489823	191	12	49581
SLC47A1	17	19398698	19482347	112	17	44739
NPRL2	3	50384761	50388522	1	1	46074
C1QA	1	22962999	22966101	6	3	45875
USP16	21	30396950	30426809	33	8	50951
AP2S1	19	47341393	47354249	12	5	37928
ATP5B	12	57031959	57039798	7	1	54663
FNTB	14	65381203	65529368	323	30	49694
WDR33	2	128458596	128568761	229	25	48968
BRPF3	6	36164521	36200567	37	8	45744
NAALAD2	11	89864683	89926062	237	13	51199
UGT1A10	2	234545100	234681951	418	26	49578
SH3TC2	5	148303202	148442726	346	28	51192
DHCR24	1	55315306	55352891	115	13	49415
AC023632.	8	95558771	95560630	8	2	52156
FOXD3	1	63788730	63790797	2	1	46884
SCN3B	11	123499895	123525952	92	15	47772
C7orf76	7	96110938	96132835	40	8	49292
SCAF8	6	155054459	155155192	159	14	47517
SLC29A2	11	66129992	66139685	15	2	47639
PPP4R1L	20	56806188	56884495	185	16	49556
C1orf186	1	206238872	206288647	15	1	35000

ZNF860	3	32023263	32033120	36	4	46587
MYO18B	22	26138111	26427007	886	83	47741
KIAA0825	5	93488671	93954309	600	63	49997
ZNF648	1	182023705	182030847	7	2	50418
SMTN	22	31460091	31500743	129	16	49502
P2RY14	3	150929905	150996255	122	13	52019
INO80B	2	74682150	74688011	5	2	37446
C6orf25	6	31686371	31694491	11	3	44990
GIMAP6	7	150322463	150329473	17	4	50005
MAP1LC3B	16	87417601	87438385	63	13	43279
RPAIN	17	5322961	5336196	56	5	46108
HPR	16	72088522	72111145	46	9	50713
TMEM216	11	61159159	61166335	7	2	45994
KLHL6	3	183205319	183273477	123	13	48263
OR13C5	9	107360650	107361788	8	2	48578
CACNA2D1	7	81575760	82073114	1349	91	50361
STK33	11	8413418	8615836	535	22	50771
FCHSD1	5	141018869	141030986	46	12	48797
CLDN7	17	7163222	7167302	6	3	46080
COPA	1	160259063	160313190	61	9	45873
BCLAF1	6	136578001	136610989	10	1	48050
PAK1	11	77032752	77185680	303	13	44339
LRRC4	7	127667124	127672160	8	4	52060
SIRT7	17	79869815	79879199	2	1	32124
GATA2	3	128198270	128212028	36	11	48263
MR1	1	181003067	181031074	79	15	50465
AREGB	4	75480629	75490486	3	1	39510
UBE2I	16	1355548	1377019	113	9	46932
NYAP1	7	100081550	100092422	16	4	47644
MRS2	6	24403153	24425810	101	9	49908
PIGU	20	33148346	33264910	130	10	51102
RNF183	9	116059373	116065656	18	4	50917
GFM2	5	74017029	74063196	73	7	49528
PSMD8	19	38865176	38874464	24	5	46816
C7orf13	7	156431057	156433348	5	2	49542
NIPSNAP3A	9	107509969	107522403	28	7	47833
C1orf110	1	162794248	162838605	176	25	46491
OR13C2	9	107366924	107367951	2	1	49749
LTBP4	19	41098789	41135725	91	11	48479
MOGS	2	74688184	74692537	3	1	37821
RABEP1	17	5185558	5289129	291	20	47828
KANSL1L	2	210886147	211036107	97	17	46742
OR5F1	11	55761157	55762101	6	2	53372
SRSF1	17	56080721	56084707	1	1	42387
RP11-248J2	10	97620305	97684601	163	20	51750
IARS	9	94972489	95056038	169	14	51221
CAPZA2	7	116451124	116562103	159	17	49316
ACO2	22	41865129	41924993	48	8	44390
CDH15	16	89238175	89261900	78	10	49907
ING5	2	242641450	242668893	19	4	31328
WEE1	11	9595228	9615004	34	8	49775

GIF	11	59596741	59612974	13	3	44163
C1QBP	17	5336097	5352150	42	9	45424
MEX3A	1	156041804	156051789	12	5	44368
SHISA5	3	48509197	48542259	40	6	43057
RMDN3	15	41028082	41048049	29	5	48548
CCL17	16	57438679	57449974	39	9	48390
TMEM134	11	67231824	67236743	2	1	36177
COX16	14	70791798	70826448	105	14	52385
C11orf31	11	57508825	57510986	3	1	53722
C16orf80	16	58147496	58163354	37	5	51445
BOD1L2	18	54814293	54817531	11	3	51377
UBE2O	17	74385532	74449288	141	17	46969
SNAI3	16	88744090	88752901	15	4	45135
UGT1A8	2	234526291	234681956	459	29	49551
RP11-65D2	13	112240548	112324955	249	25	48344
TOB2	22	41829496	41843027	18	2	48763
RALBP1	18	9475007	9538114	193	22	50747
PDE4B	1	66258197	66840259	1190	70	48944
TMEM185E	2	120978854	120980984	5	2	51213
H2AFX	11	118964564	118966177	4	1	45748
KIAA1683	19	18367908	18385319	82	9	48284
C7orf25	7	42948325	42951904	13	3	48183
FAM126A	7	22980878	23053749	195	17	52701
ADIPOR2	12	1797740	1897844	237	20	49366
SLC45A2	5	33944721	33984835	29	7	40359
TMEM41B	11	9302201	9336327	89	10	52929
RP11-67H2	8	114612539	114629187	29	7	46756
APOA4	11	116691419	116694022	12	6	45322
SLC16A4	1	110905470	110933704	50	9	51577
CHURC1-FN	14	65381203	65528521	321	29	49696
TEX14	17	56634039	56769416	242	20	49479
ACTR5	20	37377085	37400834	91	10	52312
ATP6V1C2	2	10861775	10925236	179	25	50162
GJB7	6	87992696	88038996	107	9	51347
AC003043.	17	42335297	42355825	36	12	44101
AC117395.	3	149689066	149690535	1	1	46740
IL1RAP	3	190231840	190375843	398	55	48415
CCL20	2	228678558	228682272	2	1	35422
KRT17	17	39775689	39781094	2	1	41695
OMD	9	95176527	95186743	16	5	50819
CYP2C8	10	96796530	96829254	133	15	51461
MARS2	2	198570087	198573113	1	1	49124
WWP2	16	69796209	69975644	403	23	50157
TRMT2A	22	20099389	20104915	18	7	48827
ZFP82	19	36874022	36909558	58	6	52122
KRTAP5-11	11	71292901	71314399	45	5	33948
ZNF408	11	46722368	46727462	5	2	48739
PPP1R12B	1	202317827	202561834	230	13	50223
IRF6	1	209959036	209979465	47	5	53636
TXLNA	1	32645287	32663886	14	2	48653
SPRR2G	1	153122058	153123345	4	1	46421

ZDHC18	1	27153201	27184093	41	6	51319
PIP	7	142829170	142836839	16	3	50308
CYLD	16	50775961	50835846	73	10	49454
RGS7BP	5	63802084	63908139	196	25	51306
UBN1	16	4896666	4932361	118	15	50705
CHODL	21	19273580	19639690	965	85	48075
ISLR2	15	74392652	74430881	13	6	40470
NEURL1B	5	172068269	172118543	121	18	48619
NOB1	16	69775770	69788843	24	6	48573
SLC6A20	3	45796942	45838027	83	24	46910
FAM83H	8	144806103	144815971	24	3	37090
HSPE1	2	198364718	198368181	2	1	50921
MTMR10	15	31231144	31283810	127	12	49343
PROC	2	128176003	128186822	27	5	51117
PNKD	2	219135115	219211516	162	10	48965
C14orf142	14	93669239	93673439	3	1	45143
PLCG1	20	39765600	39811629	48	12	47231
AP1G1	16	71762913	71843104	166	16	51012
SLC37A4	11	118894824	118901616	19	5	41569
ZNF480	19	52800430	52829175	80	14	48977
NDUFS7	19	1383526	1395583	17	3	43441
CORO7	16	4404543	4475706	142	15	45712
OSBPL10	3	31699382	32119072	1129	102	47185
CLDN15	7	100875373	100882101	13	4	48796
NEIL3	4	178230990	178284097	159	29	46523
MEF2BNB-I	19	19256376	19302967	168	13	52403
PPP1R16A	8	145703352	145727504	22	4	43071
RP11-552I1	12	103545620	103562087	45	9	50873
GJA1	6	121756838	121770873	26	6	44897
DCAF10	9	37800499	37867663	157	5	50909
BPIFB2	20	31595406	31611515	32	7	50672
LOX	5	121398890	121413980	20	4	50928
DEK	6	18224099	18265054	65	14	48471
TMEM234	1	32680073	32687972	8	2	43986
PQLC3	2	11295324	11319000	64	10	49650
TMEM39B	1	32537632	32568467	30	3	48631
DEFB121	20	29992648	30000641	17	4	50569
NFKBIL1	6	31514647	31526606	62	16	48573
GPR97	16	57702099	57723975	76	14	48085
SELM	22	31500758	31516055	38	7	49270
MEF2B	19	19256377	19303400	170	14	52349
SLC10A5	8	82605842	82608409	6	3	49550
ASTN2	9	119187504	120177348	2758	150	50154
ZNF709	19	12571998	12624668	139	8	50352
DNAJA3	16	4475806	4506776	61	6	49082
CYB561D1	1	110036674	110045554	10	2	49677
KCNT1	9	138594031	138684992	268	28	45951
UGT1A9	2	234580499	234681946	344	19	50033
PSAPL1	4	7432022	7436700	37	8	50751
SERPINH1	11	75273101	75283828	30	4	46996
ZCCHC24	10	81142081	81205383	217	37	48150

RBBP8NL	20	60985293	61002589	46	11	43489
ADCY7	16	50280048	50352046	131	20	43671
KRT2	12	53038342	53045948	13	5	49858
CD207	2	71057347	71062952	29	7	44496
SS18L1	20	60718822	60757540	150	9	49771
COQ7	16	19078921	19091417	30	5	43881
EIF3I	1	32687529	32697205	10	1	51004
TWF1	12	44187526	44200178	23	6	47288
FAM71A	1	212797789	212800120	10	5	44569
DRD5	4	9783258	9785632	4	2	45677
WBP1	2	74685456	74688018	3	1	37511
OSMR	5	38845960	38945698	235	35	47364
C6orf99	6	159290971	159331385	147	24	45092
ITM2C	2	231729354	231743963	51	11	47367
TNC	9	117782806	117880536	271	25	50330
PRNP	20	4666882	4682236	32	5	48735
TRIT1	1	40306723	40349183	98	11	47799
FGF14	13	102372134	103054124	1606	94	49263
PPHLN1	12	42632249	42853517	515	15	52029
SLC25A32	8	104410863	104427417	51	7	52863
SH3GL3	15	84115980	84287495	383	54	49466
MNT	17	2287354	2304412	47	7	49474
RIF1	2	152266397	152364527	180	18	46450
CPE	4	166282346	166419472	533	24	53071
KRT81	12	52679697	52685318	10	3	52318
FAM3C	7	120988905	121036418	90	5	51749
HNRNPDL	4	83343717	83351294	25	5	48688
ATP6AP1L	5	81575281	81682796	163	19	50003
TMEM199	17	26684604	26708716	43	5	46989
EDIL3	5	83236373	83680611	775	67	49765
PGC	6	41704449	41721847	42	13	45276
SH3D19	4	152023903	152246784	433	23	47570
TOMM40	19	45393826	45406946	44	9	44541
DLL4	15	41221538	41231237	7	2	51038
OR8K5	11	55926870	55927793	1	1	55273
C5orf60	5	179068545	179072047	5	3	46892
SEL1L	14	81937893	82000205	60	13	45153
TLR4	9	120466610	120479149	24	7	48381
C1orf63	1	25568728	25664704	27	6	39423
NDUFB7	19	14676890	14682874	11	5	42891
TMX2	11	57480072	57508445	30	5	45714
FOXH1	8	145698795	145701718	2	1	39737
KPNA1	3	122140796	122233792	182	18	50309
FCRL1	1	157764193	157789895	57	7	52725
RFTN2	2	198432948	198540769	121	9	50360
PLEKHG4	16	67311413	67323402	17	6	43734
DPRX	19	54135310	54140263	3	1	39385
BHLHE40	3	5020801	5027008	16	3	50808
POLR3E	16	22308730	22346424	25	6	43431
ARMC5	16	31469401	31478487	13	5	40786
SPATA9	5	94987885	95034415	113	13	49905

SPEG	2	220299568	220363009	80	10	45674
FST	5	52776239	52782964	10	5	49634
ADD1	4	2845584	2931803	123	14	50149
CPNE5	6	36708552	36807778	330	48	49721
OR2H2	6	29555683	29556745	3	2	47360
RNF180	5	63461671	63668696	258	14	49382
FAM154A	9	18927656	19033251	526	23	50648
ASPDH	19	51014857	51017947	8	3	47657
C1orf35	1	228288427	228293112	4	2	43416
LAYN	11	111411005	111432264	31	6	44309
KPNA4	3	160212783	160283376	101	13	48155
PRPF4	9	116037623	116055185	51	9	50279
PHLPP2	16	71671738	71758604	161	15	52347
FHOD1	16	67263290	67281561	19	5	42614
GKN2	2	69172364	69180102	17	5	46414
PRB3	12	11418857	11422739	5	2	44774
MRPS6	21	35445524	35515334	89	9	47337
FAM198A	3	43020759	43101703	192	17	50716
DEFB118	20	29956421	29961726	7	3	49057
SLC38A9	5	54921673	55069022	619	24	49770
GFI1B	9	135820932	135867083	165	38	48033
GLYR1	16	4853204	4897343	110	15	50292
BPIFA1	20	31823801	31831115	21	3	49163
FLRT3	20	14303634	14318262	20	6	47332
NAV2	11	19372271	20143144	1981	189	49031
ZFAND2B	2	220059959	220074373	21	6	41659
SLC23A3	2	219940051	220035549	144	8	47361
PSD	10	104162376	104181296	23	9	48581
PDK4	7	95212811	95225803	39	6	50321
C19orf60	19	18699495	18703146	9	2	52978
ASCL5	1	201083081	201096312	31	6	48752
CELSR3	3	48673902	48700348	22	2	49021
TMEM150C	4	83404323	83483510	166	28	46597
PLCB1	20	8112824	8949003	2366	154	50478
CTAGE1	18	19993564	19997878	3	2	35087
AC015987.	7	135611542	135613214	1	1	47999
KDELC1	13	103436631	103451357	36	5	49376
IL21R	16	27413483	27462115	143	26	48305
FITM1	14	24600484	24602058	2	1	45485
OXTR	3	8792094	8811314	88	21	47587
NHEJ1	2	219940039	220025587	133	7	47450
SCMH1	1	41492872	41707826	484	26	49379
STRADB	2	202252581	202345569	141	12	45527
C2CD2L	11	118972908	118989252	39	7	46489
KPNA6	1	32573639	32642169	57	6	48113
SGOL1	3	20202085	20227784	80	10	52727
PLAG1	8	57073463	57123883	80	10	49089
SCGB1D4	11	62063754	62066536	7	3	51944
NREP	5	110998318	111333161	785	46	49414
FAM115A	7	143548468	143599291	30	6	48036
UCP2	11	73685712	73694352	14	2	51584

ZBTB44	11	130096572	130184581	78	8	46872
MARVELD3	16	71660064	71676017	30	6	50636
PF4	4	74846794	74847841	2	1	48335
CHRNA3	15	78885394	78913637	64	7	48925
KRTAP4-1	17	39340354	39341594	8	1	44560
PCNP	3	101292939	101313281	44	9	52562
UBP1	3	33429828	33482863	116	11	46584
METTL3	14	21966277	21979517	34	6	48110
FLJ20306	7	6522922	6524873	4	2	47007
RP11-20123	16	2546033	2570219	1	1	34337
ZNF638	2	71503691	71662199	405	21	48987
KLRF2	12	10034088	10048432	36	8	48314
MUC5AC	11	1151580	1222364	78	8	36494
TMEM155	4	122680088	122686582	21	5	46878
KMT2A	11	118307205	118397539	69	6	47251
UBE2K	4	39699664	39784412	224	16	51822
DEDD	1	161090764	161102478	11	4	46953
BLOC1S5	6	8013800	8064647	175	14	52913
CCDC18	1	93645476	93744287	194	13	50084
AC025263.	12	70195449	70249143	153	18	51913
AP000867.	11	71292956	71318487	52	6	33770
KLHL11	17	40009797	40021684	28	5	48695
SKAP1	17	46210802	46507637	634	24	52343
GGN	19	38874905	38878722	9	3	48942
POU5F1	6	31132119	31148508	156	24	48801
TAS1R1	1	6615241	6639817	33	4	46465
CLTB	5	175819456	175843570	48	12	47925
CORO7-PAI	16	4390252	4470495	154	16	44660
LMX1B	9	129376722	129463311	231	34	48064
SNPH	20	1246960	1289972	115	23	49964
HIST1H2BD	6	26158349	26171577	15	4	48718
RP11-849F.	17	8271956	8286505	27	5	49622
HAND2	4	174446120	174451380	4	2	48235
C12orf40	12	40019969	40302102	579	23	47938
MYOM1	18	3066805	3220106	530	52	49056
RNF150	4	141780961	142134031	955	68	49764
DDN	12	49388932	49393092	5	2	48347
MRPL30	2	99771461	99811761	95	9	43990
TBCK	4	106962756	107242652	516	15	51409
ZCRB1	12	42705880	42719920	27	5	51329
OCEL1	19	17337013	17340028	26	6	46742
VTN	17	26691290	26700110	20	3	45776
ADAMTS10	19	8645126	8675620	44	13	39566
MYBPHL	1	109834987	109849663	35	8	47147
AL162407.	10	115674530	115676949	2	1	38076
RP11-944C	14	90095265	90109015	29	6	50975
AC061975.	17	26638667	26642323	1	1	55273
LAX1	1	203734304	203745361	33	4	48680
PARP1	1	226548392	226595780	116	10	51177
OSBP	11	59341871	59383617	52	4	50072
EPCAM	2	47572297	47614740	113	18	48969

FKBPL	6	32096484	32098068	6	3	47184
DHX32	10	127524906	127585005	53	8	47220
OPRK1	8	54138284	54164257	132	11	50179
FBXL2	3	33318517	33445154	222	17	47638
MDH1	2	63815743	63834331	31	5	49192
IFT80	3	159974774	160117668	151	17	49247
TXNL4A	18	77732867	77793949	156	14	49742
CCDC43	17	42750437	42767147	14	6	46805
RAB2B	14	21927179	21945132	46	5	46001
WDPCP	2	63348518	64054977	1321	28	48080
C4orf27	4	170650616	170679104	56	9	46561
UBE2QL1	5	6448736	6495022	152	29	46451
MTRF1	13	41790505	41837742	112	9	51492
VPS54	2	64119280	64246206	333	25	45490
AC009065.	16	2303738	2312343	4	1	47398
SARM1	17	26691378	26728065	64	6	48228
AP002353.	11	107582998	107595135	28	7	50954
SERINC3	20	43124862	43150750	26	4	50827
KISS1R	19	917287	921015	5	2	39632
CCDC108	2	219867568	219906249	39	6	45256
SNX13	7	17830385	17980124	285	16	50622
NUSAP1	15	41624892	41673248	57	6	49073
TRIM28	19	59055458	59062089	7	3	46140
C10orf120	10	124457225	124459338	5	2	52630
CYB561D2	3	50388126	50395891	5	2	36648
ZC3H8	2	112969102	113012713	43	6	50901
LIN37	19	36239262	36245420	11	4	50816
AC027763.	17	6779954	6915668	254	32	45867
RTL1	14	101346992	101351184	6	3	45545
C14orf180	14	105046021	105056852	21	3	41670
SSNA1	9	140083099	140084822	4	1	39064
BBX	3	107241783	107530171	482	34	49889
LRRC55	11	56949221	56959191	28	7	50010
TSPYL5	8	98285717	98290176	8	3	47814
RCOR2	11	63678693	63684316	5	1	47166
DCAF8	1	160185505	160254920	62	8	45805
PCOLCE	7	100199800	100205798	2	1	46015
CD3E	11	118175260	118186890	27	5	50152
HPS5	11	18300223	18343745	100	11	48776
FAM3D	3	58619673	58652575	115	15	49153
ASB4	7	95107756	95169544	146	20	50888
NXPE1	11	114392437	114430617	73	5	49947
GDPD4	11	76927603	77012732	246	19	46147
MORN1	1	2252692	2323146	252	28	43260
HERC4	10	69681665	69835105	208	17	48004
AC005493.	7	34685709	34699772	57	11	47625
PBX1	1	164524821	164868533	765	87	46484
RRAGD	6	90074355	90121989	98	17	50687
LRRTM2	5	138204612	138211057	7	2	47974
RWDD2B	21	30376705	30391699	20	5	50841
FAM78B	1	166026674	166136206	221	18	50986

OR10V1	11	59480296	59481337	3	2	45621
FAM83G	17	18872102	18908117	39	9	41679
RP11-362K	12	58937907	59206842	586	47	49208
THRA	17	38214543	38250120	52	11	45995
MTRNR2L1	1	238107024	238108575	10	2	53004
CCDC39	3	180320646	180588793	516	29	49192
OIT3	10	74653339	74692791	24	2	44007
ZW10	11	113603909	113644533	109	14	52505
SCRN1	7	29959719	30029905	159	17	45888
PRPF38B	1	109234945	109244425	5	3	48346
FXD7	19	35634154	35645204	19	6	39196
PALLD	4	169418217	169849608	1227	96	50551
POM121L1	7	53103349	53104617	7	2	55040
FAM153B	5	175487692	175559261	18	4	47176
ITPKB	1	226819391	226927024	170	24	50449
TMX2-CTNI	11	57480077	57559058	82	10	46243
TEX15	8	30689060	30748122	127	10	49340
FERMT1	20	6055492	6104191	221	24	49127
ARL13B	3	93698983	93774512	45	8	48580
DNAJC24	11	31391387	31453396	76	7	50828
KIAA1586	6	56911347	56920023	6	2	50192
FHL3	1	38462442	38471278	10	6	35975
ACVR1	2	158592958	158732374	140	20	45827
MAP1S	19	17830051	17845325	59	7	46901
PROCA1	17	27030215	27038872	9	3	46744
MBL2	10	54525140	54531460	29	7	46921
PLBD1	12	14656595	14721283	94	12	46101
DCAF13	8	104426942	104455681	67	7	53014
FREM1	9	14734664	14910993	624	69	49433
POP5	12	121016567	121019201	10	3	48926
CD36	7	79998891	80308593	767	42	47893
ACOT8	20	44470360	44486045	33	9	47716
SOX10	22	38366693	38383429	9	2	41663
RAB21	12	72148654	72184699	34	4	49639
C12orf73	12	104343980	104359486	60	11	49219
TRIM14	9	100831557	100881494	80	15	47803
OR10K2	1	158389718	158390656	2	1	50758
AC079341.	4	122685740	122687962	7	3	49543
CCDC174	3	14693271	14714166	49	5	47441
AL138764.:	10	13350145	13350447	1	1	52193
ZNF273	7	64330550	64391344	212	13	52699
OR10H2	19	15838834	15839862	4	2	48730
SNRPE	1	203830731	203839678	30	4	52099
CBLB	3	105374305	105588396	486	24	50375
CCT8	21	30428126	30446118	21	5	50184
ZHX2	8	123793633	123986750	427	73	48541
PCDH10	4	134070470	134129356	92	18	47995
PRR7	5	176873446	176883283	9	2	42565
SLN	11	107578104	107590419	27	6	50384
RAD54B	8	95384188	95487337	311	16	48297
DYNLL1	12	120907653	120936296	77	11	50764

DACT1	14	59100685	59115039	26	6	50223
ITLN2	1	160914815	160924589	19	4	48289
SDHAF2	11	61197514	61215001	17	2	49372
GNB4	3	179116990	179169378	79	11	53187
TPM4	19	16177831	16213813	72	11	44749
TRAPPC5	19	7745729	7747744	6	3	35583
AP000721.	11	63742092	63755818	20	3	47683
BIRC2	11	102217942	102249401	49	6	50251
ZNF347	19	53627325	53662328	81	13	46359
RP4-539M6	22	30805244	30824977	42	11	49310
IFT74	9	26947037	27062928	281	20	48790
C12orf55	12	96883349	97269333	962	34	50844
MDN1	6	90352218	90529442	349	22	51572
LHFP	13	39917029	40177665	791	60	48710
NUP35	2	183982241	184026408	246	22	51440
OR10H1	19	15917817	15918936	3	2	55469
GPR108	19	6729925	6737614	18	5	37676
PARL	3	183547173	183602721	153	16	51728
HELT	4	185939995	185941958	7	3	45166
KRT5	12	52908359	52914471	26	2	52371
AVPR1A	12	63539014	63544722	12	4	43709
PDSS1	10	26986588	27035727	137	16	50725
TMEM212	3	171561139	171656505	258	17	50474
TYSND1	10	71897737	71906432	35	7	46329
TIMM10B	11	6502677	6505909	6	2	53832
CLMP	11	122943035	123065989	449	39	49005
NSF	17	44668035	44834830	54	5	45448
MZB1	5	138723169	138725770	1	1	46650
CD226	18	67498394	67629039	261	25	46039
DNAH6	2	84743579	85046713	607	15	49623
CHRNA6	8	42607763	42651535	84	8	44076
LILRB5	19	54754263	54761164	19	5	38212
GNAO1	16	56225302	56391356	387	42	48438
FLNC	7	128470431	128499328	53	9	44280
CCDC50	3	191046866	191116459	286	17	51146
NOL7	6	13615559	13632971	18	5	48753
SERPINB9	6	2887500	2903514	41	13	46806
PCCA	13	100741269	101182686	747	41	50216
STXBP3	1	109289296	109352148	188	10	44566
GAS2	11	22647188	22834601	390	30	49359
LIN28B	6	105404923	105531207	131	18	48424
TAF1L	9	32629452	32635667	5	3	45142
WDR92	2	68350068	68384692	59	7	50719
PMFBP1	16	72146056	72210777	157	19	49474
HUNK	21	33245628	33416946	511	47	51514
PNMAL2	19	46990163	46999755	30	9	48458
RAPGEF1	9	134452157	134615461	364	22	51281
ENTHD2	17	79202077	79212891	11	3	45883
MAP3K7CL	21	30449792	30548210	269	14	52870
LY6E	8	144099399	144105249	12	4	43849
F11	4	187187099	187210835	63	13	50507

BFSP1	20	17474550	17549865	208	46	48080
TAS2R31	12	11182986	11184006	6	2	54221
AC040160.	16	67244251	67260930	13	3	43067
JAZF1	7	27870192	28220362	810	68	48164
SCYL3	1	169818772	169863408	147	13	52782
AC003101.	17	29898161	29902678	5	2	35821
ARHGAP24	4	86396267	86923823	1344	62	48203
COA6	1	234509202	234519795	33	4	50754
NEK8	17	27052915	27070473	16	4	49014
CEBPZ	2	37428755	37458856	51	12	49137
OR10A3	11	7960081	7961141	1	1	49358
APOBEC3D	22	39410368	39429281	35	5	44006
LENG8	19	54960065	54973217	48	6	43900
CDA	1	20915441	20945401	109	16	52367
S100A6	1	153507075	153508720	2	1	54033
ADARB2	10	1228073	1779670	1950	164	49053
WDR75	2	190306159	190340291	173	6	50618
GZF1	20	23342787	23353700	25	5	47804
ZNF213	16	3179778	3192806	16	3	48338
HSPB6	19	36245469	36248980	3	2	49720
PCGF5	10	92979908	93044088	113	5	48840
COQ5	12	120941077	120972237	95	13	51315
ADORA3	1	112025970	112106584	223	33	48117
OR4X1	11	48285413	48286330	4	2	50013
TSPAN16	19	11406824	11437672	60	7	46079
ELOVL6	4	110967002	111120355	437	56	50107
UBAP2	9	33921691	34048947	337	16	51883
TMEM25	11	118401756	118417995	39	2	44099
CENPV	17	16245848	16256970	10	3	43927
SRI	7	87834433	87856308	27	5	48903
C10orf107	10	63422719	63526524	362	22	48235
PLS1	3	142315229	142432506	226	18	49727
TMEM161E	5	87485450	87565293	110	14	44736
KHDRBS1	1	32479430	32526451	10	5	41033
CCHCR1	6	31110216	31126015	149	20	50683
NAT8	2	73867959	73869520	2	1	48874
SYDE1	19	15218214	15225799	11	2	49736
ENOPH1	4	83351715	83382244	66	16	46808
F2R	5	76011868	76031606	25	6	47790
DRGX	10	50572237	50603497	57	6	51632
SLC35B1	17	47778305	47786376	8	3	51860
TCF23	2	27371872	27376378	5	2	49827
CARD18	11	105008448	105010453	4	2	53261
B4GALT6	18	29202210	29265799	106	15	50466
SPTSSA	14	34901995	34931562	82	7	48982
CLEC10A	17	6977856	6983626	15	4	42096
GADD45A	1	68150744	68154021	7	2	51048
LRRN2	1	204586298	204654861	150	19	49590
KLB	4	39408473	39453156	131	25	50141
SBK3	19	56052023	56056909	12	5	43236
ZNF836	19	52657117	52674896	44	9	46483

PPARGC1A	4	23756664	23905712	404	60	49271
UGT1A3	2	234637754	234681945	134	15	49188
NR1H3	11	47269851	47290396	42	6	48875
AGO3	1	36396319	36538101	73	4	42902
KIF26B	1	245318287	245872733	1771	161	48313
OR52N5	11	5798864	5799897	1	1	48297
TBC1D22B	6	37225548	37300746	135	10	51527
TOMM22	22	39077953	39080818	7	2	47788
KCNK7	11	65360326	65363467	2	1	45805
TRIP4	15	64679947	64747502	93	11	44552
TMOD2	15	52043758	52108565	157	10	52073
TPRN	9	140086069	140098645	9	1	39689
UGT1A7	2	234590584	234681945	301	17	50049
LILRB4	19	55155340	55181810	102	13	46548
SNX30	9	115513118	115643951	346	12	52584
C3orf79	3	153202284	153220486	64	7	47717
LACE1	6	108616098	108847999	299	19	49396
KRTAP17-1	17	39471173	39471947	5	2	43536
JDP2	14	75894419	75940814	107	16	49361
PRICKLE1	12	42852140	42984157	363	37	50819
PCYOX1L	5	148737570	148749216	14	4	47588
SPEM1	17	7323679	7324951	3	1	52024
GALNT16	14	69725994	69821183	309	37	49393
LCE1E	1	152758690	152760902	7	2	49054
PREX2	8	68864353	69149265	871	68	50152
IRAK1BP1	6	79577189	79656157	123	15	51689
IL10	1	206940947	206945839	15	5	46017
PDZD3	11	119056166	119060932	3	2	47404
AGO2	8	141541264	141645718	269	29	48956
PDLIM7	5	176910395	176924607	12	3	37937
TRPC1	3	142442916	142526730	139	12	49541
ST6GALNA4	1	76540404	77100286	1442	116	49950
CASQ1	1	160160285	160171676	19	5	41309
ARRDC3	5	90664541	90679176	12	5	47168
CAMK2B	7	44256749	44374176	256	20	45921
RAB3D	19	11432722	11456946	58	5	43539
SAA1	11	18287721	18291524	8	3	49185
PSEN2	1	227057885	227083806	69	8	50843
PTPRK	6	128289924	128841870	724	46	47280
MIS18BP1	14	45672393	45722743	71	7	43390
MTRNR2L1	17	22022437	22023991	6	2	52089
KRT34	17	39533902	39538655	9	4	43428
RP11-1035	16	18799385	18812841	21	4	50261
DDX43	6	74104471	74127292	31	7	51971
TOE1	1	45805342	45809647	4	2	51599
CACNA1G	17	48638429	48704835	124	17	46145
TMEM170A	16	75476952	75499395	79	9	49277
PTGES3	12	57057127	57082159	37	8	46818
ZNF17	19	57922531	57933307	19	6	50702
RAD51B	14	68286496	69196935	1764	97	50429
POLD2	7	44154286	44163957	18	5	44627

TAPBP	6	33267471	33282164	23	5	46075
MRPL15	8	55047770	55060461	24	3	36891
NEU2	2	233897382	233899767	6	2	44379
MMD2	7	4945620	4998844	186	21	50210
ILKAP	2	239079042	239112370	120	13	52852
OR52E2	11	5079880	5080857	7	3	50330
DES	2	220283099	220291461	12	2	47334
CLEC3A	16	78056412	78100658	353	15	49867
CBFA2T2	20	32077881	32237842	93	14	45014
RP11-691N	11	57509635	57560715	51	8	46464
ACPP	3	132036211	132087142	195	17	52494
GRIK1-AS2	21	30968360	31003067	108	15	46878
BRMS1	11	66104804	66112596	14	4	44037
UBLCP1	5	158690089	158713044	36	7	50919
LTBP2	14	74964873	75079306	231	29	48725
ZNF180	19	44979854	45004576	94	11	51694
C18orf54	18	51884287	51911588	90	6	53129
IFT88	13	21140585	21265503	284	13	50070
GFPT2	5	179727690	179780387	205	25	50398
TAAR2	6	132938161	132945414	27	7	46088
SYNGR3	16	2039661	2044276	6	2	53149
SOS1	2	39208537	39351486	202	6	48686
LRRC19	9	26993134	27005691	34	10	48558
RASSF9	12	86198331	86230348	97	11	51478
KRT35	17	39632941	39637392	16	4	49778
DCAF8	1	160187254	160254920	60	8	46157
APOPT1	14	104029299	104073860	97	11	51798
CEACAM1	19	43011456	43065386	29	3	45934
LPCAT2	16	55542910	55620582	169	12	50245
CBX4	17	77806955	77813228	8	3	39250
C16orf70	16	67143861	67182442	28	6	43214
C11orf73	11	86013253	86056969	123	13	51154
BACH1	21	30566392	31003071	670	48	46496
CD44	11	35160417	35253949	291	44	49952
DAP	5	10679342	10761384	263	13	50150
APAF1	12	99038919	99129204	163	17	50639
CSTF3	11	33098734	33183917	184	13	45147
LMBR1L	12	49490919	49504683	13	3	46047
GPN3	12	110890289	110907073	22	4	49052
OR51S1	11	4869427	4870514	7	3	49246
GABRG1	4	46037786	46126098	238	18	46943
BRAF	7	140419127	140624564	263	9	49252
AC103809.	17	72346906	72348271	4	2	43242
SCD	10	102106881	102124591	28	6	49599
CBX1	17	46147414	46178883	86	11	51196
SH3BP5L	1	249104648	249120832	23	3	44949
DRC1	2	26624784	26679579	93	15	42678
EIF2D	1	206744620	206785904	90	15	51597
FAM168A	11	73111532	73309234	224	14	49369
CHRNA5	15	78857862	78887611	57	7	48822
PBOV1	6	138537129	138539627	9	1	46493

SLC35F1	6	118228689	118638839	960	61	50166
C16orf78	16	49407734	49433342	69	8	50160
CLHC1	2	55401927	55459699	134	17	51406
WDR16	17	9479944	9546776	62	10	43817
CELA2A	1	15783223	15798586	54	8	51618
HDC	15	50534144	50558223	51	12	49515
POLD1	19	50887461	50921273	46	4	47006
YPEL2	17	57409050	57479090	120	16	49236
PATL1	11	59404189	59436453	31	4	49001
SLC27A1	19	17579578	17616977	101	12	42189
AP3B2	15	83328033	83378666	110	19	50135
ZDHHC8	22	20116979	20135530	58	7	49049
SDS	12	113830250	113864106	63	3	39807
NMS	2	101086944	101099742	48	4	47579
STX1B	16	31000577	31021949	22	4	47437
CYP26A1	10	94833232	94837647	3	1	42094
PGLYRP2	19	15579456	15609767	69	13	48603
SRGAP1	12	64238073	64541613	518	59	47398
SLC23A2	20	4833002	4990939	325	41	45914
IQGAP1	15	90931450	91045475	254	11	50329
DEFB123	20	30028322	30038060	22	4	51664
HTR3B	11	113775399	113817287	111	14	47743
TERF2	16	69389464	69442474	82	14	49125
AATK	17	79091095	79139877	189	29	42631
TMEM138	11	61129473	61136981	2	1	47876
ARHGAP18	6	129897277	130031370	384	39	51274
CTD-2368P	19	58513429	58522600	34	6	53004
MYOG	1	203052260	203055164	5	2	48529
ZNF891	12	133694740	133707059	36	6	49728
FLYWCH2	16	2933187	2949383	61	8	52204
ENPP6	4	185009859	185142383	373	40	49863
NOVA2	19	46436992	46476804	51	10	47006
TMEM132I	12	129556270	130388211	2662	242	49307
TMEM14C	6	10723148	10731362	19	2	45530
DUSP11	2	73989311	74007284	11	2	49636
AGBL1	15	86685227	87572283	3125	133	49018
PAK1IP1	6	10694928	10710015	3	2	35262
PHYHIP	8	22077222	22089854	26	7	40856
AAMDC	11	77532155	77629478	144	11	52222
LPPR3	19	812518	821967	31	6	36802
NDUFA7	19	8373167	8386263	36	4	44617
DSCAML1	11	117298489	117688240	1241	112	47733
FBXO30	6	146114638	146135889	32	7	42096
SLC5A1	22	32439019	32509016	177	10	50848
PRKRA	2	179296141	179316239	20	6	49156
MIB1	18	19284918	19450918	174	14	45461
FAM20C	7	192969	300711	80	16	38958
CAPZA3	12	18891045	18892121	1	1	42709
C21orf62	21	34162985	34186053	57	4	47705
GPR135	14	59895740	59932060	100	12	51176
LRRTM4	2	76974845	77820445	2283	100	49137

TAF1A	1	222731244	222763275	55	6	46760
FAM162A	3	122103023	122131181	81	13	48156
SHC1	1	154934774	154946871	12	2	45373
WDR91	7	134868590	134896316	80	4	48947
UFD1L	22	19437433	19466738	64	9	48867
NDUFA7	19	8373490	8386280	35	4	44594
WDR60	7	158649269	158749438	290	17	48910
BIK	22	43506754	43525718	48	7	49788
CCIN	9	36169389	36171329	6	3	48723
MB21D1	6	74123238	74161999	62	18	47242
SLC12A6	15	34525460	34630261	390	16	45630
P4HA3	11	73946846	74022702	142	12	48158
ELMO3	16	67233014	67237932	9	3	46699
STK19	6	31938868	31950598	21	8	44874
MMP26	11	4726157	5013659	1137	44	50519
VPS36	13	52986737	53024763	72	6	49892
FBXL16	16	742500	755829	21	2	44693
HLA-F	6	29690552	29706305	136	15	49286
DCST1	1	155006300	155023406	23	5	46232
LYPLA1	8	54958938	55014577	91	5	36932
RIPK1	6	3064225	3115421	38	10	44601
RP11-5A19	16	67197288	67199718	1	1	42071
FOXN4	12	109715784	109747025	55	10	51436
DPAGT1	11	118967213	118979041	29	5	47160
COL16A1	1	32117848	32169920	81	14	47206
CNOT10	3	32726637	32815367	299	15	46478
IL20RB	3	136665072	136729927	92	8	50788
AGR2	7	16831435	16873057	205	21	51749
AMIGO1	1	110046797	110052360	8	3	51883
GNAT1	3	50229045	50233949	2	1	50058
SMR3B	4	71235810	71255961	92	10	52580
MYOZ2	4	120056939	120108944	155	14	49229
DCDC2B	1	32674695	32681797	6	2	48655
URGCP-MR	7	43906157	43946188	89	13	51485
ISOC2	19	55964352	55973710	30	9	36654
PPP3R1	2	68405989	68483369	133	9	52370
ST7-OT4	7	116593953	116738860	131	22	47468
RNFT2	12	117176096	117291436	284	22	45373
APOA5	11	116660083	116663136	9	4	48923
FAM92B	16	85131965	85146114	83	13	48372
IFNA10	9	21206180	21207142	2	1	53848
CEP72	5	612387	667283	161	14	50002
ZNF362	1	33722146	33766320	64	9	49085
UBE2J1	6	90036344	90062567	42	12	49097
PRPH2	6	42664340	42690312	82	9	53388
LRRC29	16	67241042	67260951	20	3	43827
STARD6	18	51850728	51884334	88	7	51477
KRT80	12	52562780	52585784	58	16	45521
ZC3H10	12	56511943	56516278	1	1	39938
PPP1R7	2	242088991	242123067	73	9	47068
FAM81A	15	59664892	59815748	415	35	49895

CUEDC2	10	104183002	104192418	13	4	49895
SRSF3	6	36562145	36573377	32	3	47037
KIAA1199	15	81071684	81244117	316	54	47078
FKBP5	6	35541362	35696360	256	19	46916
SLFNL1	1	41481269	41488909	26	7	46506
CTNND1	11	57520715	57587018	71	10	45407
CETP	16	56995762	57017757	76	15	49560
RSPH4A	6	116937642	116954148	46	10	50370
RP11-77K1	16	75446582	75498604	170	11	51064
SLC7A7	14	23242431	23299029	220	31	46179
MSH2	2	47630108	47789450	391	25	49273
DYNC1H1	14	102430865	102517129	135	12	45582
NPM1	5	170814120	170838141	57	5	50911
HOXB13	17	46802125	46806540	7	3	50197
FYTTD1	3	197464050	197514467	44	3	48133
TAS2R14	12	11090005	11324172	728	11	49714
KRT33B	17	39519746	39526052	10	3	43054
C18orf63	18	71983048	72026422	95	8	51544
CES4A	16	67022492	67043661	17	5	43986
RBP3	10	48381487	48390991	9	3	49331
RAB1B	11	66036004	66044963	15	5	49496
TRIM69	15	45021186	45060027	105	8	48837
CLEC4C	12	7882011	7904201	77	8	53478
PLA2G6	22	38507502	38601697	314	13	50498
RP11-474G	2	68358370	68488362	215	12	51365
AP000322	21	35791013	35796264	8	3	49448
C5orf17	5	23951457	24178372	773	20	51956
MAP3K12	12	53874274	53893847	13	7	45800
SEC14L2	22	30792846	30821305	66	12	49598
CUL1	7	148395006	148498128	197	15	52138
TNFAIP6	2	152214106	152236560	50	5	50667
ARL6IP6	2	153574407	153617767	104	13	46600
NIN	14	51186481	51297839	244	39	48510
C11orf45	11	128769460	128775930	18	5	43715
PAX7	1	18957500	19075360	266	43	46797
TRAK2	2	202241930	202316302	128	11	45001
TGFB111	16	31482906	31489281	3	2	39530
LRP1B	2	140988992	142889270	6951	228	50645
ARL6IP1	16	18802991	18813000	16	4	49701
PIWIL3	22	25115001	25170687	184	22	52020
DDIT4L	4	101107027	101111939	31	8	50639
QPCT	2	37571717	37600465	65	15	45896
CD1E	1	158323254	158327343	4	2	48442
KIAA0355	19	34745442	34846491	193	18	48300
KLHL40	3	42727011	42734036	7	3	45351
TVP23A	16	10854776	10912651	64	11	42987
SULT1C3	2	108863651	108881807	54	10	46615
EI24	11	125439112	125454575	33	6	52260
AC009403	7	155403925	155437899	67	7	49920
NUP210L	1	153965161	154127592	186	13	50032
NDUFA5	7	123177051	123198309	35	6	51974

OR11H4	14	20710898	20711979	3	2	44119
NET1	10	5454514	5500426	75	6	50381
CARD9	9	139256355	139268133	31	7	44118
MAPKBP1	15	42066632	42120053	78	11	45528
SMIM8	6	88032301	88052043	60	7	50888
ZFP37	9	115800660	115819039	25	8	46670
PATE3	11	125658006	125661495	9	4	53685
CHRNA4	20	61975420	62009753	127	26	38521
PCDH1	5	141232938	141258811	37	13	45637
FCRL5	1	157483167	157522310	69	7	47365
MYRFL	12	70219084	70352877	462	32	52108
COX4I1	16	85832239	85840650	12	3	40187
STMND1	6	17102489	17131603	72	7	52970
LRRFIP1	2	238536219	238722325	604	33	51600
IL1A	2	113531492	113542167	25	3	48961
XXcos-LUC	3	50388323	50405354	7	2	41345
EFHD1	2	233470767	233547491	211	25	48666
RABGGTA	14	24734744	24740945	19	4	51009
H3F3A	1	226249552	226259702	12	5	47709
GMPS	3	155588325	155661815	195	11	53058
TTC32	2	20096404	20101747	9	3	51035
IL23R	1	67632083	67725662	235	28	51436
MRPS24	7	43906157	43909492	4	1	53455
LYN	8	56792372	56923940	401	30	51246
CRISP3	6	49695097	49712150	36	8	51554
KANSL1	17	44107282	44302733	703	5	51290
CKAP2	13	53029564	53050763	47	6	48663
CTNNA1	5	137946656	138270723	423	17	50770
MUC22	6	30978251	31003179	333	29	47914
PTPRF	1	43990858	44089343	225	16	49722
VPS11	11	118938403	118952688	32	3	47898
TMEM208	16	67261006	67263181	1	1	48071
SRFBP1	5	121297656	121411265	152	6	51351
ATP9B	18	76829285	77138283	771	22	51348
SHROOM3	4	77356253	77704406	905	52	51715
SRRM5	19	44100769	44118649	22	4	51279
PHB	17	47481414	47492246	26	9	44448
VSTM1	19	54544079	54567207	81	15	43031
BUB3	10	124913793	124924886	13	1	50778
TMEM232	5	109624934	110074657	775	14	44545
SRSF9	12	120899471	120907596	21	6	50080
GJB3	1	35246790	35251970	14	4	45306
RBBP8	18	20378224	20606451	432	16	44783
AVP	20	3063202	3065370	2	1	41404
VPS41	7	38762563	38971994	581	23	50681
INTS4	11	77589766	77705724	239	17	52629
ZNF232	17	5008836	5026411	36	10	46494
UBE2L3	22	21903736	21978323	85	3	46135
ARHGAP40	20	37230577	37279678	110	20	48866
ANGPT2	8	6357172	6420930	340	28	49596
HLA-DOA	6	32971955	32977389	38	10	48106

BCL2L13	22	18111621	18213388	296	16	52222
CTDSPL	3	37903451	38025960	244	27	48323
NXPE4	11	114441313	114466484	44	11	50272
PPP2R4	9	131873229	131911225	75	2	49450
ACLY	17	40023161	40086795	100	9	50173
OR51I2	11	5474638	5475707	6	3	45756
SYNE3	14	95883831	95942173	274	36	48087
SLC1A6	19	15060846	15133802	419	43	49551
CCNL1	3	156864297	156878549	26	4	50858
ATP5G2	12	54026510	54071192	105	8	52416
ZNF821	16	71893583	71929239	60	9	49806
TMEM167E	1	109632425	109639556	23	6	47544
LMOD3	3	69156023	69172183	23	8	45531
MRPL53	2	74699085	74700449	2	1	36226
KCTD5	16	2732476	2759031	36	5	46198
SPPL2C	17	43922256	43924438	17	2	49378
MAFF	22	38597889	38612518	23	4	50121
C19orf70	19	5678432	5680907	3	1	36492
ZG16	16	29789561	29793096	1	1	35113
PTPRH	19	55692616	55720874	95	20	41132
KLK11	19	51525472	51531295	8	3	35809
NDUFS4	5	52856463	52979168	335	20	51482
C19orf69	19	41949063	41950670	5	3	38602
VRK1	14	97263641	97398059	296	21	51756
TRPV2	17	16318856	16340317	54	7	47963
KIAA1551	12	32112304	32146039	138	19	53033
ZNF668	16	31072164	31085641	16	3	49062
CRHR1	17	43699267	43913194	942	8	49244
TRIML2	4	189012427	189030757	101	15	45376
AL645730.1	1	50459990	50461874	2	1	44467
B3GNTL1	17	80900031	81009686	462	38	50511
RPS28	19	8386042	8388224	9	4	43734
CARD6	5	40841286	40860275	35	7	49416
C16orf91	16	1469745	1479345	18	4	40803
VASN	16	4421849	4433529	25	6	44748
NDUFA4L2	12	57628686	57634498	1	1	47918
IGLL1	22	23915312	23922495	20	5	37703
C6orf58	6	127840600	127912962	258	16	47731
STH	17	44076616	44077060	1	1	53377
RFWD2	1	175913967	176176629	416	20	49939
ARMC10	7	102715328	102740205	22	7	47711
TWIST1	7	19060614	19157295	160	16	37295
SNX11	17	46180719	46200436	60	8	49426
BPIFB1	20	31861286	31897684	70	9	50318
NLRP5	19	56511092	56573179	382	51	48997
GSE1	16	85645015	85709810	81	13	42528
AL391421.1	10	79626633	79629368	6	2	44919
GNAT3	7	80087987	80141336	99	11	45755
CHMP4C	8	82644669	82671750	61	13	49521
PSMD7	16	74330673	74340186	9	4	48451
AC022819.1	15	99859300	99859828	1	1	49399

USP25	21	17102344	17252377	218	7	48479
KRTAP5-9	11	71259466	71260653	8	3	46024
COL4A1	13	110801318	110959496	657	68	49711
CMTM3	16	66637777	66647795	23	4	49389
PRSS22	16	2902728	2908171	10	3	48322
RRAGA	9	19049372	19051019	2	1	49925
THEGL	4	57396775	57469673	206	26	46597
AC135048.	16	30996808	30997533	2	1	44969
AC069547.	10	52152766	52154321	5	3	51067
C2orf62	2	219221579	219232822	29	7	46457
OLIG1	21	34442450	34444726	4	2	49788
ABCC10	6	43395104	43418168	37	9	50595
MRPL49	11	64889655	64894843	5	3	47695
C17orf75	17	30651584	30677042	18	3	46641
ACVRL1	12	52300692	52317145	45	11	49547
SIMC1	5	175665365	175772994	174	15	48903
SPINT2	19	38734675	38783254	135	19	51259
ADAM22	7	87563458	87832204	347	23	47469
NEK1	4	170314426	170533780	447	15	50617
HDAC3	5	141000443	141016437	26	8	48038
ENO4	10	118609023	118671299	65	10	46022
BRE	2	28112808	28561768	845	40	49164
SORCS3	10	106400859	107024993	1651	42	51774
IPP	1	46159996	46216322	90	5	50754
TEP1	14	20833826	20881588	164	22	49880
BPMS	8	30241944	30429778	319	20	51172
RASSF1	3	50367219	50378411	9	2	44998
MCEE	2	71336814	71357369	63	6	49060
OR2H1	6	29424958	29432105	8	3	46495
MAPT	17	43971748	44105700	664	5	51324
C6orf163	6	88054567	88075181	54	5	53066
FSD2	15	83424114	83474822	104	17	49368
DNMT3B	20	31350191	31397162	115	9	47766
ADAT1	16	75630879	75657198	89	13	43331
CHST14	15	40763160	40765353	1	1	42125
IFNA16	9	21216372	21217310	6	1	50113
AES	19	3052908	3063105	16	4	36345
S100A7L2	1	153409534	153412425	6	2	51108
RGPD2	2	88055474	88285309	3	1	36794
FOXRED2	22	36883237	36903148	58	7	47778
MS4A18	11	60496789	60511685	21	3	51011
OR2AE1	7	99473610	99474680	3	1	45002
CDC42EP5	19	54976210	54984411	16	4	39473
GPX6	6	28471073	28495992	66	12	50714
KCNJ8	12	21917889	21928515	4	2	45194
NR4A3	9	102584137	102629173	33	6	48751
PNMA2	8	26362202	26371608	16	5	50413
PTF1A	10	23481256	23483181	3	1	43762
SDCBP2	20	1290619	1309883	68	19	47977
ZNF415	19	53611132	53636330	97	15	48559
RNF212	4	1050038	1107350	261	9	48662

CYP2S1	19	41698954	41713444	27	6	42562
PRDM15	21	43218385	43299591	375	31	50157
FBXO44	1	11714432	11723384	19	7	39089
CCDC182	17	55821842	55822673	2	1	52995
ARHGAP44	17	12692856	12894960	675	48	50257
CCDC135	16	57728705	57765717	66	11	49627
CREBBP	16	3775055	3930727	68	18	43846
PCGF2	17	36890150	36906070	38	9	49521
ZDBF2	2	207139387	207179148	51	6	48182
PABPC1	8	101698044	101735037	49	5	50508
ATXN1L	16	71879894	71919171	64	10	50402
SLC31A1	9	115983808	116028674	117	17	51988
AKTIP	16	53524952	53538323	14	2	51842
GJA9	1	39330175	39347289	37	6	47959
RGL1	1	183605220	183897665	743	46	49025
OR5AS1	11	55797895	55798869	5	1	53818
CTRC	1	15764935	15775737	16	4	48310
TNR	1	175284330	175712906	1107	96	49927
AL450307.1	10	133604734	133622535	71	7	52923
RP11-155D	3	51994317	52008032	2	1	39637
MYO1H	12	109785708	109893328	407	22	52074
NARG2	15	60711808	60771359	95	8	49245
CCDC142	2	74699113	74710535	9	3	37909
GPRIN3	4	90157537	90229161	172	24	49253
CDC25B	20	3767578	3786762	35	6	50268
CMIP	16	81478775	81745367	934	92	48944
FOSL2	2	28615315	28640179	35	6	47490
APOLD1	12	12878851	12982909	239	40	44485
C9orf135	9	72435709	72521148	222	27	51010
GFER	16	2034208	2037750	16	3	50472
KRTAP1-1	17	39196811	39197713	1	1	48044
COA4	11	73583712	73588033	9	4	46920
C8orf49	8	11618896	11620309	11	4	50130
LOXHD1	18	44056935	44236996	550	55	50773
AMHR2	12	53817639	53825318	13	1	52705
BTC	4	75669969	75719896	185	12	49389
CCDC54	3	107096188	107097481	3	2	37195
OBFC1	10	105642300	105677963	84	9	50997
SUPT16H	14	21819631	21852425	62	6	42793
TNP2	16	11361605	11363390	4	2	48117
GPX5	6	28493702	28502729	22	6	49745
TPM1	15	63334831	63364114	90	12	51444
TMEM262	11	64852451	64856847	6	3	47379
IZUMO4	19	2096380	2099592	2	1	40049
FSBP	8	95390605	95449180	154	16	47382
EHBP1L1	11	65343509	65360121	24	7	45955
SKOR2	18	44746293	44775554	59	8	49322
LYRM7	5	130506503	130541119	62	6	48646
CLK2	1	155232659	155248282	15	3	47890
SHISA7	19	55940107	55954230	12	4	40215
MPP6	7	24612887	24733812	351	8	52271

PCGF1	2	74732170	74735707	4	2	32954
ASZ1	7	117003276	117068177	77	11	47524
ZNF471	19	57019212	57041590	71	9	49728
KDM4B	19	4969125	5153606	514	31	51167
TCTN1	12	111051832	111087235	34	8	47866
DEPTOR	8	120885957	121063152	652	25	51306
S100A12	1	153346184	153348125	1	1	47999
NAMPT	7	105888731	105926772	80	11	48738
MAPRE3	2	27193480	27250064	52	4	48254
TAL2	9	108424738	108425367	1	1	49399
AGO1	1	36335409	36395211	31	3	39860
IL20	1	207038699	207042568	4	2	50627
BTBD2	19	1985447	2034880	142	22	41907
HBEGF	5	139712428	139726216	29	7	51069
CRBN	3	3190676	3221394	81	12	46142
GPBP1L1	1	46092976	46153785	105	5	51245
GSN	9	123970072	124095121	201	19	48461
ARSJ	4	114821440	114900883	214	18	52411
G6PC3	17	42148103	42153709	7	3	45931
SYS1	20	43990577	44005438	28	3	49965
HMX3	10	124895478	124897257	1	1	34974
SAT2	17	7529552	7531194	3	1	49096
C7orf61	7	100054238	100061894	3	1	52255
PYROXD1	12	21590549	21623300	185	10	51477
KAT6B	10	76585340	76792380	174	9	46053
ALOX12B	17	7975954	7991021	38	10	49044
PPM1H	12	63037762	63328817	805	93	49188
GPR87	3	151011891	151034740	40	7	49982
ADCY3	2	25042038	25142708	336	20	49155
RPL7L1	6	42847356	42857663	27	5	48812
LCN8	9	139648838	139652678	20	4	42760
TMEM97	17	26646121	26655707	10	4	48693
NF2	22	29999545	30094587	144	15	51305
HOXB5	17	46668619	46671323	8	4	47360
MYO5B	18	47349183	47721463	1268	51	51227
TMEM179	14	104941015	105071984	394	31	44308
DPP4	2	162848751	162931052	136	18	43511
GHRHR	7	30978284	31032869	161	26	45934
ARHGEF10I	1	17866330	18024369	289	28	46276
RRM1	11	4115937	4160106	99	10	49807
DNAJB13	11	73661364	73681411	66	11	50452
SAG	2	234216462	234255701	126	16	51666
APH1A	1	150237804	150241980	2	1	42985
ADAMTS16	5	5140443	5320417	710	79	49551
UPK2	11	118795873	118829269	82	15	47586
ZDHHC5	11	57435219	57468659	45	8	46260
SF1	11	64532078	64546258	9	2	45119
IQCC	1	32671236	32674288	5	1	50081
H2AFY2	10	71812552	71872036	155	24	51022
OPRL1	20	62711526	62731996	31	7	45613
PGAM1	10	99185917	99193198	11	5	46655

OXCT1	5	41730167	41870621	145	9	50504
TSC22D1	13	45007655	45151283	242	13	51366
AC112721.	2	238330063	238333919	2	1	40661
BRD7	16	50347398	50402845	109	12	48633
SPAG6	10	22634399	22743153	48	9	42849
ECM1	1	150480538	150486265	11	3	51401
AL160274.:	9	35361056	35361262	1	1	53852
CDHR1	10	85954410	85979377	74	12	48449
USP50	15	50792759	50838905	136	14	52254
SENP2	3	185300284	185351339	110	7	52420
PPP1R14A	19	38741877	38747231	17	4	50016
KCNAB2	1	6051526	6161253	260	36	46260
NOL9	1	6581407	6614595	92	2	47099
POLR2E	19	1086594	1095598	37	12	39747
SEMA3F	3	50192478	50226508	56	9	48788
COA7	1	53152508	53164038	21	4	43492
FBXW10	17	18647326	18682662	61	11	50244
MYCBP	1	39328636	39347289	38	6	47990
MXD4	4	2249159	2264021	34	3	47538
KRT18	12	53342655	53346685	3	2	51289
SLC35F4	14	58030640	58448912	1452	72	51547
MADD	11	47290712	47351582	123	12	50529
SLC12A8	3	124801480	124998021	626	63	49701
MAP6D1	3	183533664	183543382	25	4	51756
SIN3B	19	16940211	16991164	75	10	48875
MAPK6	15	52244303	52358462	127	18	45592
FDPS	1	155278539	155290457	11	2	50110
SGMS2	4	108745719	108836203	178	34	46710
HPSE2	10	100218875	100995619	1563	43	49217
RAB34	17	27041299	27045447	3	2	46295
TMED5	1	93615299	93646285	50	7	48833
CALB2	16	71392616	71424341	89	10	53017
IL17REL	22	50432942	50451088	52	8	48728
CAPN7	3	15247659	15294425	34	9	46863
OR51B2	11	5344541	5345582	10	2	43818
TAS2R50	12	11138512	11139511	3	2	47039
SLC6A1	3	11034410	11080933	125	28	46046
ATOX8	2	85978467	86015189	67	10	48726
HOXA11	7	27221129	27224842	5	2	50031
RD3L	14	104406763	104408645	6	2	43359
TXK	4	48068410	48136273	148	18	49575
MLANA	9	5890802	5910606	38	9	47579
FAM46A	6	82201156	82462491	680	42	50415
HMX2	10	124907638	124910188	2	1	51636
TM7SF2	11	64879317	64883856	8	2	48223
LHX6	9	124964856	124991905	40	11	43364
DPYSL2	8	26371791	26515694	486	31	49547
ATP1B3	3	141594966	141645356	162	17	52020
IL27RA	19	14142560	14163743	47	5	38963
EIF1	17	39845137	39848920	1	1	50236
PPAPDC1B	8	38120648	38126761	6	3	50641

CDC42EP3	2	37869032	37965611	335	37	49793
SLC35D2	9	99082988	99145992	206	14	50916
FEM1A	19	4791728	4795571	3	1	47703
OR2AT4	11	74799758	74800799	1	1	36591
LSMEM2	3	50316458	50325545	4	1	47254
UHRF1BP1I	12	100422233	100536626	233	19	48787
GSG1L	16	27798850	28074830	806	81	50722
OR52R1	11	4824663	4825847	5	2	47829
THSD1	13	52951305	52980629	64	4	50949
HIST1H2AC	6	27100832	27103070	2	1	42437
PTPRE	10	129705325	129884119	621	80	50961
EXOC3L1	16	67218269	67224107	7	2	44165
PXDNL	8	52232138	52722005	1332	48	48937
MTRNR2L4	16	3421053	3422283	6	2	51197
TNNT3	11	1940792	1959936	64	13	42732
FAM110A	20	814358	838106	83	18	46130
CHST10	2	101008327	101034118	40	6	44496
DLEU7	13	51285144	51418075	327	27	50671
ALG1	16	5083703	5137380	130	24	47026
KCNK12	2	47743720	47798078	112	26	48290
PGBD2	1	249200395	249214145	5	1	31992
AQP12B	2	241615835	241622323	4	2	43536
NTN1	17	8924859	9147317	751	74	50132
PIK3C2G	12	18400548	18801348	1008	49	51231
LIPK	10	90484301	90512543	151	8	52413
DGCR8	22	20067755	20099400	96	10	51753
CRABP2	1	156669398	156675608	5	2	32761
TMC7	16	18995256	19075264	125	8	46707
FAM124B	2	225243415	225266802	61	11	50709
PEPD	19	33877856	34012700	566	30	49033
TTBK1	6	43211418	43255997	97	12	48296
UAP1	1	162531323	162569627	65	11	50300
DEFA5	8	6912831	6914256	6	2	48723
SPIDR	8	48173167	48648868	261	15	44822
TOPAZ1	3	44283378	44373590	166	12	52865
EIF2S3L	12	10658201	10675734	50	5	53028
PCDHGC5	5	140868808	140892546	48	12	47571
LZTFL1	3	45864808	45957534	165	23	51541
LAMB3	1	209788215	209825811	125	18	45817
SLC5A10	17	18853658	18925908	85	20	39822
ATXN7L3	17	42269173	42277481	9	5	39100
PAH	12	103230663	103352188	354	21	50384
CSNK2B-LY	6	31633879	31641323	21	8	46521
TEKT4	2	95537178	95542574	13	4	42849
PRKAR1B	7	588834	767287	158	17	39039
POLDIP2	17	26673659	26684545	10	5	46209
MGST2	4	140586922	140661899	193	30	49913
RNMTL1	17	685513	695749	15	6	47672
POLR3B	12	106751436	106903976	305	16	47446
SLC8A1	2	40324410	40838193	1614	94	47913
NAA38	7	117824086	117832878	44	3	51556

PRKD3	2	37477645	37551951	245	19	50510
GZMM	19	544034	549919	15	4	34782
UFC1	1	161122566	161128646	9	3	53055
AC110781..	7	1878222	1889567	57	7	50865
KRTAP2-4	17	39221369	39222131	1	1	44305
SYNJ2	6	158402888	158520208	361	38	51134
NAA40	11	63706431	63724800	30	4	45336
RNF43	17	56429861	56494956	101	14	50625
PIK3CG	7	106505723	106547590	71	16	49648
REXO2	11	114310108	114321001	27	8	49460
ZBTB7B	1	154975127	154990998	22	8	46410
MSX1	4	4861393	4865663	19	5	48501
ETS1	11	128328656	128457453	248	41	50302
N4BP2L2	13	33006554	33112970	120	12	47287
ITGB1	10	33189247	33294720	266	26	48866
NPAS2	2	101436614	101613291	491	58	48169
OTOS	2	241078446	241083979	36	5	49894
CC2D2A	4	15471489	15603180	253	24	50700
COL24A1	1	86194916	86622626	1345	55	50783
ENAH	1	225674537	225840844	327	14	51524
ITPRIPL1	2	96991069	96994091	3	1	55450
BMP8B	1	40222854	40254533	89	15	47909
C1orf173	1	75033795	75139422	127	12	46359
FAM170A	5	118965254	118971517	26	4	53663
PLA2G2F	1	20465819	20476879	17	7	43282
KIAA1244	6	138483058	138665800	437	26	46160
SLC5A3	21	35445870	35478559	36	6	47699
SLC5A3	21	35445870	35478561	36	6	47699
UGT1A6	2	234600253	234681946	264	17	50147
RPAP1	15	41809374	41836467	64	8	49337
SLIT2	4	20254883	20622184	841	94	49392
CHST3	10	73724123	73773322	124	11	49165
OLFML2A	9	127539437	127577164	34	7	43673
SMPD3	16	68392231	68482591	158	18	50412
C6orf222	6	36283534	36304662	48	16	46412
TOX3	16	52471917	52581714	184	27	48559
ZNF598	16	2047655	2059824	46	7	47137
LAMB2	3	49158547	49170551	9	5	44721
FCRL4	1	157543539	157567870	59	8	47033
FGF6	12	4537321	4554780	32	5	49033
CCDC24	1	44457031	44462200	8	3	42094
TAF4B	18	23805900	23971649	362	21	48745
CHURC1	14	65381079	65411309	87	6	49966
TM9SF2	13	100153671	100216260	120	15	50532
OR5T3	11	56019676	56020698	1	1	55273
UQCC2	6	33662070	33679504	56	9	45990
MAGI3	1	113933371	114228545	480	28	49460
HHIP	4	145567173	145666423	149	12	46236
ANKRD62	18	12093852	12129748	98	6	52839
BCL2L10	15	52401460	52404972	12	2	48855
ABCF2	7	150904923	150924316	60	8	52347

SNX3	6	108532426	108582464	76	10	48274
BTAF1	10	93683526	93790082	176	13	49640
ADRA2B	2	96778707	96781984	5	2	46010
IZUMO3	9	24542950	24545944	7	2	52486
MTMR12	5	32227100	32313115	220	16	48479
IGFBP7	4	57896939	57976551	410	39	51670
MRPL3	3	131181056	131221827	68	10	45374
C2orf15	2	99757948	99939204	341	19	46406
TPRKB	2	73956231	73964527	8	1	48992
PDE4C	19	18318771	18366229	110	12	49072
MAP6	11	75297963	75380165	135	13	50882
RP11-977G	12	56679700	56709843	47	4	49489
NSMCE1	16	27236312	27280115	64	6	51786
TALDO1	11	747329	765024	21	6	46410
KRT6B	12	52840435	52845910	9	3	50594
LIN54	4	83831126	83934079	165	7	46926
SERPINB1	6	2832566	2842240	23	5	46310
PCDH7	4	30722037	31148422	1021	47	50553
PRCP	11	82534544	82681626	327	18	49466
ZNF25	10	38238500	38265561	58	7	50641
FAM120B	6	170599791	170716153	273	16	51049
OR51Q1	11	5443341	5444436	11	1	48955
NEUROD6	7	31377075	31380508	5	2	48169
SLC25A46	5	110073837	110100857	45	7	49176
GSTM5	1	110254864	110318050	136	22	45600
RHD	1	25598884	25656936	9	2	38705
SPTB	14	65213002	65346601	438	35	48795
C21orf91	21	19161284	19191703	44	7	47088
CHST2	3	142838173	142841800	3	1	50704
MC1R	16	89978527	89987385	29	5	43367
TMEM78	1	229385383	229387557	2	1	56515
KLRC4-KLRI	12	10524952	10562745	96	8	51987
ORC5	7	103766788	103848495	204	15	49907
NADK2	5	36192694	36242381	44	3	49479
ARHGAP35	19	47421933	47508334	70	8	49706
KRTAP16-1	17	39463952	39465505	7	2	51149
OXR1	8	107282473	107764922	1154	53	50355
ATRIP	3	48488114	48507115	14	3	49278
GPX2	14	65405870	65409531	8	2	50768
ZFR	5	32354456	32444867	211	20	49993
B3GALT1	2	168675182	168730551	78	15	50042
TUBB2A	6	3153903	3157760	3	1	42230
RNF223	1	1006346	1009687	6	2	37530
RBM8A	1	145507598	145513536	2	1	36885
ZNF611	19	53206066	53238326	80	7	51685
FAM49B	8	130851839	131029375	297	28	50785
TBX15	1	119425669	119532179	272	21	51844
PCDHB12	5	140588269	140591696	3	1	44095
CSNK2A2	16	58191811	58231824	115	9	52753
NUDT4	12	93771659	93797024	60	8	51491
MTRNR2L8	11	10529434	10530723	6	3	41096

ABI1	10	27035522	27150016	320	17	52547
PAQR6	1	156213206	156217881	6	3	49753
GRK6	5	176830205	176869902	37	8	39645
EID2	19	40028890	40030870	6	3	51361
PHGR1	15	40643234	40648635	15	5	50542
CARS	11	3022152	3078843	150	14	48948
CCL8	17	32646055	32648421	4	1	50080
SESN2	1	28586038	28609002	42	8	48943
KRTAP2-1	17	39202793	39203568	1	1	48044
RRP7A	22	42905974	42915808	37	6	45454
HYAL3	3	50330262	50336899	2	1	48835
USP6NL	10	11495945	11653753	328	19	50128
TMCO5A	15	38214140	38259925	78	8	50770
TUBA4A	2	220114433	220142892	20	4	43479
CMC1	3	28283075	28366633	140	14	51598
LYZ	12	69742121	69748014	19	6	47323
DAXX	6	33286335	33297046	12	3	47066
MAP3K5	6	136878185	137113656	288	25	48530
LRTM1	3	54952264	55001115	111	14	50203
DOHH	19	3490819	3500938	15	3	38158
CTSO	4	156845270	156875069	110	18	46136
C1QTNF1	17	77018896	77045870	67	5	48673
IFT46	11	118415243	118443685	49	4	43992
SAMD12	8	119201698	119634234	1022	64	49524
PRRC2C	1	171454651	171562650	232	17	51453
CPSF7	11	61170121	61197503	14	3	44755
PILRB	7	99933737	99965356	41	4	51789
CACNG7	19	54412589	54447195	34	7	40790
KATNBL1	15	34432875	34502297	220	13	50931
OR6V1	7	142749417	142750444	5	2	44289
HNRNPA1L	13	53191605	53217919	70	4	52929
NRGN	11	124609742	124617106	11	2	49021
BABAM1	19	17378159	17392058	43	8	49430
ATG10	5	81267844	81572676	415	31	50199
SERPINB7	18	61420169	61472604	175	17	41899
FAM26E	6	116832809	116845955	34	6	50489
RAD9B	12	110939460	110969891	46	7	47334
DLG5	10	79550549	79686378	342	15	49330
UBC	12	125396150	125401914	9	3	47877
HSPD1	2	198351305	198381461	29	4	49396
SUSD2	22	24577227	24585078	20	6	45172
FAM216A	12	110906169	110928190	29	5	49409
ACER1	19	6306153	6333640	101	13	42045
ZPLD1	3	101818088	102198685	770	35	48847
PREX1	20	47240790	47444420	608	28	50784
MEF2BNB	19	19287712	19303400	54	9	50902
AKR1B1	7	134127102	134144036	28	7	49299
TOPORS	9	32540542	32552551	17	5	47077
ARL10	5	175792471	175828866	76	14	48578
AC015688.	17	25950390	25967803	34	4	52915
DOT1L	19	2164148	2232577	132	16	45360

RNF214	11	117103341	117157161	111	14	50248
TPH2	12	72332626	72580398	532	25	44092
CPNE8	12	39040624	39301232	514	21	44709
IP6K3	6	33689444	33714762	101	15	50263
CYP2W1	7	1022835	1029276	18	5	48725
CDH9	5	26880709	27121257	516	31	49195
ZNF428	19	44111371	44124026	15	4	50133
GNL1	6	30509154	30524951	14	4	47024
POU2AF1	11	111222977	111326355	364	21	50148
SEC61B	9	101984346	101992897	26	4	47107
LYZL2	10	30900718	30918691	85	12	51181
OAF	11	120081475	120101041	73	12	45890
MEF2C	5	88013975	88199922	273	22	46467
TCF15	20	584441	591042	11	4	40240
MSANTD4	11	105866350	105893130	46	8	51988
XKR3	22	17264302	17302589	68	9	53265
MAP2K6	17	67410839	67539472	255	33	47612
CNKSR1	1	26503894	26516377	24	6	45617
TRIM39-RP	6	30297359	30314631	45	11	48131
CEP85L	6	118781935	119031238	641	23	49255
OR4L1	14	20528204	20529142	9	2	52031
NAT1	8	18027986	18081198	233	26	48656
IL31RA	5	55147207	55218678	162	22	47793
NCAN	19	19322782	19363042	80	10	46352
SCN10A	3	38738293	38835501	303	26	48958
DSPP	4	88529681	88538062	14	3	51541
CD93	20	23059986	23066977	9	3	49884
CCDC155	19	49891475	49921251	56	5	52248
WASF3	13	27131840	27263085	343	21	49792
GNG10	9	114423615	114432526	29	6	52101
SIGLEC9	19	51628165	51639908	13	5	38558
GPATCH3	1	27216979	27226957	11	4	45598
CTSK	1	150768684	150780799	9	3	52134
DLD	7	107531415	107572175	63	7	49561
PTBP2	1	97187221	97289294	179	15	49978
KIF2C	1	45205490	45233439	50	7	49862
ZNF229	19	44921685	44952766	125	15	49079
KRT33A	17	39502344	39507064	7	2	46744
FOXI1	5	169532901	169536727	17	6	45915
LDHB	12	21788276	21910791	128	7	51589
CT62	15	71402583	71407833	10	2	47161
COL14A1	8	121072019	121384275	669	53	48148
C10orf129	10	96953957	96988685	87	6	51354
CBR1	21	37442239	37445464	11	3	49710
PRSS1	7	142457319	142460923	4	1	45114
LARP1B	4	128982423	129144086	297	11	45483
SLC22A31	16	89262406	89268072	18	4	52135
CANT1	17	76987799	77005949	64	11	43883
KIAA1107	1	92632542	92650280	27	4	49640
C19orf40	19	33463115	33469128	31	8	50860
COL6A2	21	47518011	47552763	138	15	48079

S100PBP	1	33282368	33324476	51	7	51382
TEX9	15	56536207	56738195	422	15	52354
RGPD8	2	113127669	113192065	5	2	50832
CAMK1G	1	209757062	209787283	95	14	50149
ERH	14	69846848	69865344	45	10	52371
BEND7	10	13480484	13570974	245	21	51210
IL26	12	68595131	68619601	58	11	49613
PPP2R5C	14	102228135	102394326	420	39	49007
MYT1L	2	1792885	2335032	1420	77	48867
RP11-455G	4	120113928	120133799	52	10	51117
HMGCS2	1	120290619	120311528	41	10	47967
OR11G2	14	20665495	20666605	6	2	50108
CACNA1H	16	1203241	1271771	122	19	39637
DEFB135	8	11839830	11842099	10	2	43279
SLC22A23	6	3269196	3457256	629	58	49892
C1orf100	1	244515937	244552965	119	14	48465
MPZ	1	161274525	161279762	11	4	49866
PRDM14	8	70963886	70983928	55	12	49984
RASSF6	4	74437267	74486348	125	9	50392
CIAO1	2	96931870	96939087	3	1	47646
TNFAIP3	6	138188351	138204449	24	4	45737
CD5L	1	157800704	157868046	188	15	51163
DYNLL2	17	56160776	56172897	15	5	46464
CTB-96E2.2	17	26691310	26695033	10	3	45598
CLDN5	22	19510547	19515068	18	6	45802
SPICE1	3	113161565	113234034	236	17	49003
ABHD12B	14	51338878	51371688	68	11	43343
SETDB1	1	150898739	150937213	52	8	51709
SNUPN	15	75890424	75918810	41	4	49399
SETD5	3	9439299	9520924	131	11	48022
SMPD1	11	6411655	6416228	5	1	48678
DCST2	1	154990996	155006257	23	6	48249
SNX33	15	75940247	75954642	16	4	45204
MPC2	1	167885967	167906278	21	3	52253
NKX2-5	5	172659112	172662360	3	2	40111
PLEKHG1	6	150920999	151164799	804	56	49558
RRP8	11	6616305	6624850	16	7	45986
CMTM4	16	66648653	66730610	153	9	43476
FAM129A	1	184759858	184943682	323	23	50126
OR51H1P	11	4880886	4881794	2	1	52491
DAK	11	61100682	61120767	1	1	50174
NECAB3	20	32244893	32262269	10	3	47644
CLDN22	4	184239220	184241927	1	1	40963
RABEP2	16	28915742	28947847	24	4	45219
IST1	16	71879899	71962913	149	14	50580
RP11-487E	4	178163693	178169927	22	6	53587
LCN6	9	139638463	139642980	6	3	38706
OXT	20	3052266	3053163	2	1	34977
SAMSN1	21	15857549	15955723	303	30	47997
DDR2	1	162601163	162757190	352	26	46989
AC096582.	7	45902684	45906045	12	5	53053

NIPBL	5	36876861	37066515	199	21	49748
TFAP4	16	4307187	4323076	15	3	46271
OR1Q1	9	125376948	125378026	4	2	43845
PUSL1	1	1243947	1247057	1	1	35458
CADM4	19	44126520	44143991	24	5	51453
APOBR	16	28505970	28510291	7	2	46583
NCSTN	1	160313062	160328742	36	8	46741
PPP1R42	8	67876334	67968839	76	6	42648
RP11-432B	3	159945241	160167617	286	21	49122
GNG5	1	84964008	84972248	26	8	48489
IER5L	9	131937835	131940540	2	1	50515
DCD	12	55038375	55042277	10	4	50933
UGT1A4	2	234627424	234681945	172	16	49606
LECT1	13	53277399	53313947	83	9	51279
TCF7L2	10	114710009	114927437	388	50	46073
METTL4	18	2537524	2571508	108	10	50023
C8orf88	8	91970865	91997485	39	5	49339
GLO1	6	38643701	38670917	64	11	48938
C1orf146	1	92683497	92711370	16	4	47176
VKORC1	16	31102163	31107301	8	3	45174
ZDHHC11	5	710471	851101	120	9	43727
FSCN3	7	127231463	127242198	24	6	43263
AC023590.	8	119294378	119412844	301	23	50341
TRAPPC3L	6	116816152	116866773	131	13	51126
HTT	4	3076408	3245676	324	18	48748
NUDCD1	8	110253148	110346614	205	13	50823
PCDHGC4	5	140864741	140892546	52	13	47189
NAT9	17	72766686	72772506	17	3	49493
DLX5	7	96649704	96654409	7	4	49332
ANGPTL6	19	10203014	10213472	9	3	38897
ZNF527	19	37861963	37883968	30	7	49194
TLN2	15	62682725	63136830	1077	95	48573
EHD4	15	42190950	42264776	185	24	50317
C11orf21	11	2316875	2324279	41	6	43621
TNFRSF4	1	1146706	1149518	3	1	54340
WDR31	9	116075502	116102578	57	10	51266
MRPL51	12	6601150	6603007	14	1	53140
ENO2	12	7022909	7032861	10	2	46955
SLC34A2	4	25656923	25680370	32	8	39317
RIPK2	8	90769975	90803291	74	9	48947
AP1S1	7	100797678	100804877	27	4	50477
SCGB1A1	11	62172575	62190667	49	10	52061
GDA	9	74729511	74872109	357	26	51577
ZC3H6	2	113033171	113097640	107	9	49249
NXF1	11	62559595	62573774	6	3	45540
RNF141	11	10533225	10562777	89	12	47420
SLC27A5	19	58990879	59023780	54	7	49711
FOXG1	14	29235050	29238870	2	1	42427
TCL1A	14	96176304	96180533	8	2	47168
ADM	11	10326227	10328944	2	1	38445
CYTH3	7	6201407	6312275	199	18	41300

NR5A1	9	127243516	127269709	30	3	45707
ZBTB26	9	125677845	125693779	21	5	42105
FANK1	10	127585108	127698161	263	13	50740
C9orf50	9	132374504	132383055	24	5	51346
FADS3	11	61640991	61659523	32	4	45480
ZNF544	19	58739960	58788815	139	15	47596
OCIAD2	4	48887036	48908954	23	5	49068
C14orf2	14	104378625	104394606	54	5	46157
MRPL10	17	45900638	45908900	32	6	47106
PLA2G2C	1	20487746	20503917	49	10	48841
DFNB59	2	179316163	179326117	10	3	44070
IMPG2	3	100941390	101039404	167	11	52332
MLX	17	40719086	40725257	12	3	46746
FLI1	11	128556430	128683162	379	52	48838
SLC6A9	1	44457172	44497139	66	13	43213
FAM134A	2	220040947	220050201	25	4	42539
CYTIP	2	158271131	158345473	113	13	42260
RGPD4	2	108443388	108507297	8	3	49497
FAM171B	2	187558698	187630685	106	16	50326
CLCN6	1	11866207	11903201	171	12	52582
NEURL4	17	7218947	7232712	21	6	44665
WDR47	1	109512836	109584850	176	18	51703
MKL1	22	40806285	41032706	299	11	50341
ARMC12	6	35704809	35716856	19	4	50124
AC013468.	2	190642909	190643157	2	1	55836
HN1	17	73131343	73164376	43	7	47994
PKD2L1	10	102047903	102090243	90	14	49306
HES1	3	193853934	193856521	1	1	40072
DUOX2	15	45384848	45406542	29	2	43873
SOX2	3	181429714	181432221	1	1	42173
MYH10	17	8377523	8534079	196	11	50212
LRRC23	12	6982733	7023407	83	3	46562
CYP2C18	10	96443251	96495947	127	14	52163
ADAMTSL3	15	84322838	84708594	895	38	51566
SPOCK3	4	167654535	168155947	1372	52	48812
CA7	16	66878282	66888056	11	2	49731
CCDC17	1	46085716	46089729	8	1	50992
NAP1L4	11	2965667	3013607	152	15	51578
HIST4H4	12	14920933	14924065	7	3	50831
RBM46	4	155702365	155749965	71	6	47175
PCF11	11	82868030	82898493	37	4	44897
SCAND1	20	34541539	34547394	15	3	51415
CSRP2BP	20	18118762	18169031	163	29	49105
GORAB	1	170501270	170522587	24	5	50293
ZNF285	19	44886459	44905774	76	7	40818
ARPC3	12	110872630	110888227	26	5	48529
PLA2G1B	12	120759914	120765592	11	3	50436
TIMM50	19	39971052	39984422	27	5	48554
AKR1B10	7	134212344	134226160	42	7	48406
RASGEF1B	4	82347547	82965397	1789	79	49859
MAP3K6	1	27681675	27693383	22	6	38871

C12orf66	12	64580096	64616076	40	8	49962
TGDS	13	95226308	95248511	47	5	48466
BOP1	8	145486055	145515082	32	4	49164
OR5M8	11	56257825	56258871	1	1	53086
B2M	15	45003675	45011075	13	3	47777
DSP	6	7541808	7586950	125	21	51518
PLCB2	15	40570377	40600136	49	8	47451
C8orf82	8	145751117	145754516	1	1	46091
MPI	15	75182346	75191798	11	3	45664
MAP1LC3B	12	116997186	117014425	57	15	47260
ADCK2	7	140372953	140396061	35	4	48734
KCTD3	1	215740735	215795149	20	7	45331
ZSCAN10	16	3138891	3149318	20	5	48803
ATP10B	5	159990127	160279221	773	53	49733
KCNK3	2	26915619	26956288	76	12	46284
RTP4	3	187086120	187089864	15	6	49388
CLDN10	13	96085858	96232013	508	25	50408
SPATA22	17	3343313	3417146	221	21	48706
PSMC5	17	61904512	61909379	9	2	45745
OR1K1	9	125562370	125563395	2	1	38814
CSNK2B	6	31633013	31638120	15	6	48750
CREBL2	12	12764761	12798042	48	6	47956
TENC1	12	53440753	53458156	37	9	47281
ZFP14	19	36827162	36870101	77	9	52192
NPTX2	7	98246609	98259180	15	5	49134
ZNF646	16	31085743	31095517	13	3	48309
FNBP4	11	47738072	47788995	75	9	47656
CNTNAP3	9	39072764	39288312	15	1	32216
ZMYND10	3	50378541	50384283	3	1	39423
HRC	19	49654455	49658681	6	2	41405
KCNQ2	20	62037542	62103993	228	27	44954
C12orf54	12	48876286	48890295	58	9	46959
SNRNP48	6	7590432	7612200	55	8	49287
SLC39A9	14	69864732	69929105	112	13	53129
SMUG1	12	54558529	54582778	47	7	49759
ZNF420	19	37498759	37621216	213	10	51158
VAR5	6	31745295	31763730	28	11	48342
DPF1	19	38701646	38720354	51	10	47776
PEX2	8	77892494	77913280	41	8	40721
SMC4	3	160117062	160152750	59	10	50055
ZNF33A	10	38299578	38354016	116	9	51875
TTC34	1	2567415	2718286	93	9	39195
SOX6	11	15987995	16761138	1134	45	51445
MUCL1	12	55224303	55252177	93	7	51577
ADAMTS20	12	43747669	43945724	535	24	49930
ARID4B	1	235294949	235491534	352	11	51251
LRRN4CL	11	62453874	62457371	2	1	47223
GCGR	17	79762008	79771889	12	1	36017
TMPRSS4	11	117947753	117992605	167	18	50104
CCNI	4	77968311	77997158	47	9	48569
NPR2	9	35792151	35809729	27	4	47963

TBX1	22	19744226	19771116	54	9	45001
NINJ2	12	673462	772945	370	29	52597
TRPM6	9	77337411	77503010	258	28	49774
ZFAND2A	7	1191707	1200395	41	8	46945
SMIM2	13	44717679	44735393	16	4	49152
TPPP	5	660883	693510	91	11	45175
KIF19	17	72322349	72351959	84	14	46610
NUCKS1	1	205681947	205719404	65	13	46511
CSTL1	20	23420322	23425567	18	6	46663
RELT	11	73087309	73108519	35	5	48891
IRGQ	19	44088521	44100287	15	6	48248
LBX2	2	74724644	74730443	6	2	37894
HOXA13	7	27233122	27239725	10	3	46908
PHIP	6	79645584	79787953	233	21	51627
DEFB124	20	30053309	30064560	15	4	49492
ENTPD6	20	25176329	25207365	83	10	48404
SUN1	7	855528	936072	250	19	51821
FAM153C	5	177433406	177482560	15	6	48137
YWHAH	22	32340447	32353590	31	5	46986
H2AFY	5	134669590	134735604	69	8	45965
ZNF439	19	11959541	11994565	93	12	45591
C1orf94	1	34632484	34684732	163	19	48285
CREB3L1	11	46299212	46342972	68	13	46046
WDR11	10	122610687	122669036	190	9	52381
CYHR1	8	145674965	145691060	18	3	38474
NOTCH1	9	139388896	139440314	49	13	37206
DNAL1	14	74111578	74170435	128	13	49074
OTUD4	4	146031990	146101313	41	10	45397
FAM107B	10	14560556	14816896	941	86	51181
RSF1	11	77371041	77532063	313	12	49588
CDH18	5	19473060	20575982	2224	80	49961
ARHGAP33	19	36265434	36279724	38	6	48445
C19orf84	19	51891543	51893828	17	1	44413
KCNMB3	3	178957530	178984790	113	16	51534
PHC2	1	33789224	33896653	258	16	46909
FAM92A1	8	94710789	94743755	38	7	48184
BTNL9	5	180467225	180488523	61	9	48247
DUT	15	48623208	48635570	5	1	43125
CIAPIN1	16	57462081	57481440	61	12	49856
MUC21	6	30951495	30957680	33	8	46282
NFE2L1	17	46125691	46138849	22	6	50005
VPS51	11	64856796	64879332	28	7	48358
MARK2	11	63606400	63678491	89	7	47634
JSRP1	19	2252251	2269758	41	7	38517
C6orf47	6	31626075	31628549	4	2	42580
PIAS3	1	145575233	145586546	1	1	31824
ATP6V0D2	8	86999552	87166457	396	23	50337
SLC38A1	12	46576846	46663800	163	32	48095
C12orf50	12	88373816	88427814	95	6	49255
ATP4A	19	36040945	36054560	29	10	48075
PRSS58	7	141951963	141957878	33	5	47701

PDIA6	2	10923517	10978103	305	15	51289
TMEM55B	14	20925878	20929771	1	1	42398
RP11-111M	11	76092357	76125663	100	13	48893
ZBTB45	19	59024897	59050278	16	5	46043
NLRP4	19	56347944	56393220	176	31	47942
EXOSC3	9	37766975	37801434	86	10	50500
HSF1	8	145515280	145538385	31	2	50450
OTOP3	17	72931814	72946087	43	10	44216
SH3GL2	9	17579080	17797127	906	51	49557
SLC17A9	20	61584052	61599949	46	10	44967
CAMK2G	10	75572259	75634343	59	6	48888
PTPDC1	9	96793076	96872138	98	14	50239
USP12	13	27640293	27746033	244	25	47827
C2orf53	2	27359723	27362278	4	2	49903
PTBP1	19	797075	812327	45	8	37798
SOCS1	16	11348262	11350036	3	2	47896
NFATC2	20	50003494	50179370	425	63	48041
KY	3	134321980	134370478	108	6	52132
RAB33B	4	140374386	140397763	46	4	51336
ANKRD22	10	90581889	90611575	66	12	49123
EIF4E1B	5	176057683	176073642	19	4	46879
PPFIBP2	11	7534529	7678358	531	50	49863
WIF1	12	65444406	65515346	96	11	49709
TMEM159	16	21169698	21191937	40	7	51522
UBE2N	12	93799449	93836038	45	11	49499
N4BP2L1	13	32974861	33002315	52	11	50003
DKFZP779L	12	48592170	48595814	26	5	52967
PSMC3IP	17	40724333	40729849	2	1	49358
UNC13B	9	35161999	35405335	321	18	48812
PHF3	6	64345725	64489229	179	14	47113
PLD4	14	105391153	105399574	23	2	50296
RXRA	9	137208944	137332431	280	18	48520
CCL7	17	32597240	32599261	3	2	42815
SDR16C5	8	57212569	57233335	36	9	50659
FGF20	8	16849678	16859690	45	10	49910
EEF1E1-BLC	6	8015959	8102763	273	21	52982
OSER1	20	42825136	42839431	39	5	47203
DDX47	12	12966250	12982915	36	8	49075
KMT2B	19	36208921	36229779	40	10	49565
MORC1	3	108677086	108836989	428	16	51322
PCDHGC3	5	140855580	140892542	71	15	47587
ATXN7L2	1	110026101	110035426	9	3	53837
SLC9A3R1	17	72744791	72765492	16	4	47423
NPIPA5	16	15457516	15474904	1	1	46919
DZANK1	20	18364011	18447925	223	24	47895
GOT1L1	8	37791799	37797647	8	2	38783
PTGER4	5	40679600	40693837	20	4	51889
HVCN1	12	111065646	111142755	83	6	49665
C7orf73	7	135347244	135378166	87	13	50915
KCNE1	21	35818988	35884573	193	22	50430
ECSCR	5	138784245	138842328	4	2	38963

EXOC1	4	56719782	56771200	101	16	51214
SMARCD2	17	61909444	61920425	15	2	47443
TEKT5	16	10721358	10788802	357	31	49381
SPATS1	6	44310397	44344904	78	8	46151
AC129492.1	17	7982800	7984883	5	2	49750
RP11-321F1	15	66874528	66978132	410	44	50581
TMEM237	2	202484907	202508293	29	8	48496
PMVK	1	154897210	154909467	19	3	48249
SPTSSB	3	161062580	161090668	85	12	50581
KRBOX1	3	42850975	42984284	232	25	48111
AFMID	17	76183398	76203782	91	18	43577
ANKRD37	4	186317175	186321782	13	3	51561
EIF4E	4	99792835	99851788	138	16	47833
SULT1C4	2	108994367	109004513	15	3	42624
TBC1D10B	16	30368423	30381585	10	3	45180
RP11-211G	3	187420101	187451637	101	14	49278
CCDC90B	11	82970139	82997450	59	6	50324
CRKL	22	21271714	21308037	83	7	48442
PSMA2	7	42948872	42971773	45	3	51501
NRF1	7	129251555	129396922	306	22	51060
DSTYK	1	205111632	205180727	135	11	48016
CTB-129P6	19	45453301	45457264	19	2	53127
ODF3L1	15	76016318	76020029	3	2	52149
LPAR3	1	85277285	85358896	234	46	49933
ZFAND5	9	74966341	74980163	30	5	50770
TPX2	20	30327074	30389608	77	6	50517
IL19	1	206972215	207016324	109	16	49762
TTC33	5	40714577	40756077	87	12	51717
SEMA6B	19	4542600	4559820	35	11	37148
AIFM3	22	21319396	21335649	38	10	38240
SLC7A5	16	87863629	87903094	172	23	44492
IL10RB	21	34638663	34669539	79	7	49942
NIPSNAP1	22	29950797	29977326	63	7	51561
GMPPA	2	220363589	220371710	10	4	43939
C17orf104	17	42733762	42767676	27	10	47118
LRRC18	10	50117528	50143242	112	18	48287
RNF10	12	120971283	121015397	121	15	50820
MPL	1	43803478	43818443	11	2	51178
CASZ1	1	10696661	10856707	286	46	43167
RP11-1021	16	15489611	15609205	197	24	47165
HSD17B14	19	49316274	49339935	42	8	42286
OR13C9	9	107379529	107380485	4	2	50266
A1CF	10	52559169	52645435	106	17	49205
AL137026.1	10	44873687	44878739	22	6	50798
RP11-195F1	9	34664160	34666109	5	3	49759
NDN	15	23930565	23932450	1	1	35454
AC002398.1	19	36236579	36245420	16	5	52220
INS	11	2181009	2182571	3	1	42220
MED23	6	131895106	131949369	51	11	45069
MKX	10	27961804	28034989	153	17	47414
IMPA2	18	11981024	12030876	223	25	48100

CASP14	19	15160195	15169104	34	6	51857
FBXO42	1	16573334	16678949	185	9	50138
KRT23	17	39078948	39093886	55	7	50125
GNB2	7	100271154	100276797	7	4	41155
DEPDC5	22	32149944	32303012	374	15	46405
RP11-451N	10	111701029	111713649	17	2	52891
ASGR2	17	7004641	7019019	71	12	48474
DNAJC25	9	114393632	114432508	138	17	51735
DNAJC25-C	9	114393666	114432509	138	17	51735
MREG	2	216809213	216898819	288	45	46721
GTF2B	1	89318615	89357627	97	7	41275
C21orf49	21	34144411	34266043	270	19	50313
TMEM108	3	132757235	133116636	1038	42	50539
UMOD	16	20344374	20367623	52	5	47492
PMF1-BGL/	1	156182773	156213123	61	6	50981
PMF1	1	156182784	156212874	61	6	50981
TERF2IP	16	75681684	75795770	268	15	44309
TGFB3	14	76424442	76449334	42	5	49539
STRADA	17	61780192	61819330	64	5	46581
CCDC9	19	47759237	47775210	39	3	45805
TMEM69	1	46152886	46160115	12	2	50921
TGM1	14	24718320	24733638	26	9	48207
LCP2	5	169673241	169725231	97	27	43023
NOX3	6	155716504	155777037	161	39	46250
ANP32D	12	48866448	48866843	2	1	36167
TIMM44	19	7991603	8008805	61	6	48497
TAPT1	4	16162128	16229033	207	20	51729
C11orf88	11	111385510	111407756	25	4	44487
COX7A2L	2	42560686	42652228	167	16	53024
EVI5L	19	7895119	7929862	88	12	50097
FZD8	10	35927177	35930362	1	1	32448
RGSL1	1	182419256	182529734	318	14	51922
GTSF1	12	54849734	54867386	41	4	50160
LAMTOR5	1	110943871	110950564	13	4	51576
SLC41A2	12	105196331	105352522	336	18	48187
PTOV1	19	50353992	50364001	27	6	44790
MEGF6	1	3406484	3528059	319	46	37882
ANK1	8	41510739	41754280	657	60	48194
FBLL1	5	167956121	167957639	7	3	46188
CHP2	16	23765948	23770272	5	3	42851
C14orf93	14	23456110	23479375	26	5	47086
ZBTB16	11	113930315	114121398	538	63	47672
BLOC1S6	15	45879321	45908197	25	5	48220
MPDZ	9	13105703	13279589	191	17	45794
BTNL2	6	32361740	32374905	132	12	49283
RNF215	22	30773835	30817760	114	17	50233
BIN3	8	22477931	22526661	117	13	47756
AIMP1	4	107236701	107270383	61	7	51461
CCDC73	11	32623792	32816204	470	23	52212
TEX264	3	51696709	51738339	27	9	41006
TMEM189-	20	48697661	48770174	102	11	50357

TMEM189	20	48697663	48770335	102	11	50357
OR5W2	11	55681126	55682058	9	3	50575
TIPRL	1	168148171	168169950	57	6	46291
SNURF	15	25200181	25245423	93	10	44171
COG1	17	71189129	71204646	29	4	50846
ALG2	9	101978708	101984238	8	1	52929
NKD2	5	1008944	1039058	63	8	45235
TSSK1B	5	112768251	112770728	15	4	48018
HSD17B7	1	162760492	162782607	37	11	46257
URAD	13	28551851	28562791	22	4	52881
DDX4	5	55033845	55112985	197	23	47360
POLI	18	51795774	51847636	137	9	52147
KLRC4	12	10559983	10562356	7	1	52521
PRR15L	17	46029333	46035244	18	4	53152
ZC3H12D	6	149768794	149806197	143	8	49845
WDR55	5	140044261	140053709	15	4	50685
NASP	1	46049518	46084566	44	5	49712
GORASP2	2	171784974	171823639	74	8	48011
GPR42	19	35861831	35863855	1	1	31311
TXNDC8	9	113065801	113100127	119	28	49495
NECAP1	12	8234807	8250367	15	4	46510
EGLN3	14	34393437	34931980	1665	151	48410
HOXC4	12	54410715	54449813	55	7	48855
OR5K3	3	98109510	98110475	1	1	48349
AL590822.1	1	2143360	2145620	5	2	39085
TXNDC12	1	52485803	52521843	49	5	48360
IL17D	13	21276266	21297237	38	5	44539
SERGEF	11	17809595	18034709	375	34	50814
PNO1	2	68384976	68403370	39	6	48800
METTL24	6	110567131	110679475	253	18	49275
RP11-247C	15	74418256	74421619	4	2	40053
BDH2	4	104000592	104021040	43	5	51427
ABCB5	7	20654830	20816658	520	36	50941
TANGO6	16	68877507	69119083	436	24	50640
NDUFB10	16	2009509	2011976	18	3	43168
ZNF721	4	419604	492945	177	11	49715
KIAA1429	8	95499921	95565757	240	18	52379
OSTC	4	109571740	109588976	41	2	52528
ANAPC10	4	145888264	146019693	86	10	45842
MROH2B	5	40998119	41071444	282	24	52061
C11orf58	11	16634679	16778428	180	16	50413
MRPL14	6	44081194	44095194	33	6	48901
MAP4K2	11	64556290	64570713	6	2	42249
ALX3	1	110602616	110613322	14	3	50360
RBFA	18	77794358	77806397	39	5	51362
PPAP2C	19	281040	291393	30	8	41304
DUXA	19	57665389	57678811	49	11	44535
ST8SIA1	12	22216707	22589975	971	57	50322
GOLGA8A	15	34671269	34880704	143	17	45481
RCN1	11	31833939	32127301	621	55	51203
CEP164	11	117185273	117283984	226	25	51020

NPY	7	24323782	24331484	32	7	50677
ANAPC15	11	71817424	71823826	8	2	40236
CNGB3	8	87566205	87755903	497	47	50625
NFAT5	16	69598997	69738569	252	13	51790
SERTAD2	2	64858755	64978139	187	17	48428
YEATS2	3	183415606	183530413	176	13	51394
OR8H1	11	56057529	56058566	4	2	53502
CAMTA1	1	6845384	7829766	2265	170	49250
MCM5	22	35796056	35821423	62	12	46357
OPLAH	8	145106167	145118735	17	2	43292
KIAA0196	8	126036502	126104082	253	10	45928
ZRANB2	1	71528974	71546980	28	7	50166
C2ORF15	2	99757948	99767950	24	4	41396
FAM78A	9	134133463	134151934	17	4	37655
GJA8	1	147374946	147381393	29	7	46359
ANKS1B	12	99120235	100378432	2728	150	49838
CD1C	1	158259576	158263420	3	2	47076
DBN1	5	176883609	176901402	19	3	41217
ZMYND11	10	180405	300577	149	15	45152
CEBPZ-AS1	2	37423631	37443336	33	8	50905
HGS	17	79650356	79670168	76	8	51439
ACADL	2	211052663	211090215	30	6	49079
PRF1	10	72357104	72362531	12	4	47939
GRIK2	6	101846664	102517958	1726	103	48335
EYA3	1	28296855	28415207	165	14	47555
ANGPTL5	11	101761405	101787253	60	10	49837
RPL27A	11	8703958	8736306	63	13	49322
WBP2	17	73841780	73852588	18	3	50594
TM9SF3	10	98277866	98347209	124	8	51080
MAN2B2	4	6576902	6625089	120	17	45585
C2orf27B	2	132552534	132559234	4	1	39896
CORO1B	11	67205519	67211292	4	2	43972
RAB30	11	82684175	82782965	171	19	50789
RNF41	12	56598285	56615717	12	5	42529
PCNX	14	71374122	71582099	439	23	46858
SYPL2	1	110009180	110024759	37	3	50258
ORC3	6	88299839	88377169	166	15	51842
AC110619	2	241388732	241396131	22	7	45714
IFT20	17	26655352	26662515	4	2	42065
CYP2A6	19	41349443	41356352	24	5	44167
PRR5L	11	36317838	36486754	590	55	48778
SLC10A1	14	70242134	70264006	38	5	48658
UPP2	2	158733214	158992666	702	57	47924
OR2C3	1	247693434	247697141	12	4	52413
HCRTR1	1	32083287	32098119	28	3	47867
TARS2	1	150459887	150480078	48	6	51775
KRTAP4-2	17	39333698	39334460	5	2	44556
OR3A2	17	3181193	3182268	2	1	44385
KCNJ14	19	48958766	48969367	12	3	37189
TRIM31	6	30070674	30080883	72	17	48937
P2RX2	12	133195366	133198972	10	3	43440

TMX1	14	51706880	51722759	32	6	51316
ACTN2	1	236849754	236927931	239	32	48806
TRAF6	11	36508577	36531822	35	6	45603
RPRD2	1	150335567	150449042	295	11	51439
AMIGO2	12	47469490	47473734	10	4	49607
STAMBPL1	10	90639491	90734910	169	19	48938
EPHA4	2	222282747	222438922	345	31	50384
AC018630.	12	11187087	11187275	1	1	47129
HDHD2	18	44633774	44676891	122	14	51883
ITGA11	15	68594050	68724501	441	46	46911
TEF	22	41763337	41795330	51	5	47779
SLC6A13	12	329789	372039	120	18	46803
ZNF385D	3	21459915	22414812	3995	209	50831
TMOD3	15	52121825	52239492	225	9	51769
TREH	11	118528026	118550399	38	5	51517
PBX2	6	32152512	32157963	11	4	47679
GLT8D2	12	104382762	104457961	201	30	47294
NEUROG1	5	134869991	134871639	1	1	46878
ANKRD11	16	89334038	89556969	330	23	48701
USP8	15	50716577	50793280	227	17	50592
EMX2	10	119301955	119309056	18	5	48219
CA10	17	49707674	50237377	1109	62	49293
A4GALT	22	43088127	43117304	137	19	49295
NR2E1	6	108487262	108510013	24	6	45069
SMARCC2	12	56556767	56583351	9	2	45620
C5orf49	5	7830491	7851603	60	7	50460
MRPL54	19	3762662	3768573	15	4	45748
ANKRD60	20	56793551	56803709	22	6	46717
ZBTB41	1	197122810	197169672	72	9	44496
NPPC	2	232786530	232791113	6	2	37978
WNT4	1	22443798	22470462	81	14	49817
CRYBB1	22	26995242	27014052	52	8	49612
ATXN2	12	111890018	112037480	98	6	46691
YTHDC2	5	112849380	112930982	296	13	49765
C5orf66	5	134368970	134691744	683	87	48711
NKAPL	6	28227098	28228736	6	3	52374
PLAUR	19	44150247	44174699	85	14	45297
PRR4	12	10977559	11324212	941	14	49109
GALC	14	88304164	88460009	649	29	50375
DPH7	9	140449356	140473387	18	2	48594
SART1	11	65729160	65747299	43	6	50530
B3GAT2	6	71566382	71666741	231	41	48855
NACA	12	57106212	57125412	27	5	48707
CER1	9	14719722	14722715	14	4	46491
ATP6V1F	7	128502880	128505898	6	1	48924
MARCH8	10	45950035	46090354	418	11	51885
CACNA1B	9	140772241	141019076	242	17	43550
OR5T2	11	55999490	56000737	12	4	47504
SLC35F5	2	114462588	114514400	132	13	51981
C10orf67	10	23556124	23633774	130	13	45647
DCTD	4	183811213	183839089	126	16	50280

GPR15	3	98250743	98251960	2	1	48332
TACC2	10	123748689	124014060	899	98	48489
ANP32B	9	100745643	100778225	27	8	48478
TMEM86A	11	18714669	18726332	30	8	48938
THUMPD3	3	9404526	9428475	53	9	46217
NCKIPSD	3	48701364	48723797	28	3	47827
CENPL	1	173768688	173793858	24	4	50440
IGSF9	1	159896829	159915386	51	11	46820
PPT2	6	32121218	32134011	34	12	47341
OR13A1	10	45798102	45811056	34	2	46799
KRTAP10-1	21	45958864	45960078	3	1	37605
NROB2	1	27237980	27240457	4	2	50809
DTX4	11	58938903	58976060	58	9	47567
BTG1	12	92536286	92539673	9	4	51913
IMPA1	8	82570196	82598928	68	14	49217
TNNT1	19	55644162	55660722	30	7	38348
CNTRL	9	123837141	123939888	170	13	49998
CTC-490E2	19	41307202	41404187	292	33	47639
IGFL4	19	46543006	46580376	110	14	46925
PER2	2	239152679	239198743	116	17	47027
NOXRED1	14	77860364	77889860	46	6	52063
SF3A2	19	2236520	2248678	23	5	44033
LARGE	22	33558212	34318829	2330	163	49842
TRMT10C	3	101280706	101285290	11	3	51665
AC025287.	16	75728367	75734089	14	4	42136
FLAD1	1	154955814	154965587	13	2	39208
HOXB3	17	46626232	46682274	115	20	47283
PPP5D1	19	46984053	47104457	406	51	47803
BAZ2A	12	56989380	57030600	26	9	43344
AP5S1	20	3801178	3805949	7	2	48548
GP9	3	128779610	128781249	1	1	37063
ZNF578	19	52956829	53015407	179	16	38739
HSP90B1	12	104323885	104347423	91	17	48675
GBF1	10	104005289	104142656	188	22	49426
CYP8B1	3	42897497	42917633	42	9	49031
FBXL17	5	107194736	107717799	1090	38	51824
DCAF4L1	4	41983713	41988476	11	3	43360
SALL1	16	51169886	51185278	15	5	41955
PPP1R32	11	61248592	61258403	12	3	48733
SLC44A4	6	31830969	31846823	57	11	48462
TLK1	2	171847333	172087824	411	16	49054
CASC1	12	25261354	25348096	267	16	49991
TLX1	10	102889257	102897545	17	6	49153
PSG3	19	43225790	43244721	24	1	48238
AP000783.	11	123301058	123306427	12	3	44799
CD72	9	35609530	35646807	71	14	49374
UBXN6	19	4444996	4457819	29	5	49682
BUD31	7	99006264	99017239	17	4	45140
AC004817.	14	71683031	71683462	1	1	46878
AANAT	17	74449433	74466199	43	9	48207
CFDP1	16	75327596	75467383	392	13	51756

RPS15	19	1438358	1440583	1	1	41364
TTPA	8	63961112	63998612	90	13	49333
CTD-3214H	19	7743387	7747740	12	5	36335
CTD-3138B	19	58740831	58798173	165	16	48113
PACRGL	4	20697905	20754530	173	14	53574
PREB	2	27353624	27357543	8	3	48670
MCFD2	2	47129009	47168994	152	16	49919
ZNF705A	12	8290733	8341133	54	3	49419
EXOC3L2	19	45715879	45737469	93	7	39704
C8orf76	8	124232196	124253638	4	2	44193
TNFAIP1	17	26662628	26674035	13	4	46871
IL1R2	2	102608306	102645006	124	9	51577
BUB1B	15	40453224	40513337	78	7	46886
MANSC4	12	27915671	27924209	31	3	54372
BRAT1	7	2577511	2595361	58	6	48781
ZNF566	19	36936021	36980804	94	10	52603
OPN3	1	241753404	241840678	220	43	45149
DMTN	8	21906506	21940038	100	9	44956
ALX4	11	44281994	44331716	173	30	49915
MACROD1	11	63766030	63933578	328	39	47127
TNFAIP8L2	1	151129105	151132225	3	1	42869
RAB25	1	156030951	156040295	4	2	41578
ZDHHC3	3	44956749	45017677	61	9	49711
BET1	7	93592074	93633694	42	9	43292
ANKRD55	5	55395507	55529186	400	45	45896
NXPH2	2	139428342	139537918	297	34	49022
NT5C1A	1	40124793	40137710	16	5	51876
LIPN	10	90521163	90537999	68	12	51548
MFSD10	4	2932288	2936586	7	3	46358
TP53INP2	20	33292094	33301243	8	2	44646
PEX5	12	7341281	7371170	60	8	46322
SLC30A8	8	117962512	118188953	373	23	50444
ADAMTS19	5	128795958	129074376	650	27	50332
FAM166B	9	35561828	35563896	3	2	46594
NOSTRIN	2	169643049	169722024	176	22	49056
PGM2L1	11	74041363	74109518	140	11	49526
EML4	2	42396490	42559688	430	19	52068
PLEKHG5	1	6526152	6580121	110	17	44236
ETV2	19	36132647	36135773	3	2	48651
RBMS1	2	161128662	161350305	446	29	50301
CTD-2587H	19	55666125	55672039	19	4	42256
GCC1	7	127220672	127233665	38	9	46445
OSBPL7	17	45884738	45899200	48	8	48335
KIFAP3	1	169890467	170054349	434	11	52808
FAM19A3	1	113263041	113269857	13	4	49423
SPHAR	1	229440129	229441248	1	1	49358
FAM209A	20	55092243	55101198	15	3	50646
SLC25A1	22	19163095	19166343	6	2	51892
IGFBP6	12	53491220	53496129	4	2	43918
BPIFB6	20	31619454	31631853	33	5	50219
C1orf170	1	910579	917497	3	1	31384

NUP160	11	47799639	47870107	104	11	47012
OR2AG1	11	6806248	6807245	3	1	50291
COL4A4	2	227867427	228028829	368	32	49971
RP11-322E	18	33023835	33077904	76	12	50574
AS3MT	10	104629273	104661656	100	11	53307
DUSP1	5	172195093	172198198	7	2	49532
VPS29	12	110928902	110939922	11	3	48566
GPBP1	5	56469775	56560506	130	16	46725
HTR6	1	19991780	20006055	26	4	48800
ATP6V1B1	2	71163012	71192536	88	19	45507
RRS1	8	67341263	67342966	3	1	44483
CNTN1	12	41086244	41466220	1103	44	50826
EAPP	14	34985135	35008916	65	8	49873
ZNF124	1	247285277	247335318	136	13	52010
UBD	6	29523292	29527702	21	4	40960
NANS	9	100819021	100845357	41	6	47862
ST13	22	41220539	41253026	29	4	46064
TCF21	6	134210276	134216691	19	3	47878
KRTAP29-1	17	39458078	39459103	4	1	47329
SMIM21	18	73121431	73139658	54	7	50883
HPS4	22	26839389	26879803	118	14	44777
AC087239.	12	25381515	25390840	36	10	50288
ACADM	1	76190036	76253260	218	17	50788
OR5H6	3	97983088	97984200	8	2	49487
RHPN2	19	33469499	33555794	312	26	49074
LNX1	4	54325468	54567572	721	48	51670
C3orf80	3	159943423	159945999	4	2	43054
MAP4	3	47892182	48130769	180	9	50019
SETMAR	3	4344988	4359251	26	8	50706
MPPED2	11	30406040	30608419	476	37	50155
USP1	1	62901968	62917475	24	2	49151
ARF5	7	127228399	127231759	9	3	46741
TDRD3	13	60970591	61148012	330	18	52229
CRH	8	67088620	67090960	2	1	46968
CAMTA2	17	4871287	4890960	45	8	49067
DYM	18	46570039	46987717	925	23	51176
MFSD8	4	128838960	128887150	26	11	45156
ZNF501	3	44771088	44778575	13	3	45669
PRPSAP1	17	74305567	74380602	218	28	45978
SLC26A2	5	149340300	149373018	34	4	49256
PDE6H	12	15125956	15134799	24	5	52543
SP1	12	53773960	53810230	59	7	48256
HIST1H3C	6	26045639	26046097	3	2	51825
NKX6-3	8	41502697	41508855	18	6	48305
BATF	14	75988768	76013358	47	7	51796
CD302	2	160625364	160654753	91	13	51327
DHX33	17	5344232	5372380	75	15	45806
GPI	19	34850385	34893061	76	12	47284
AC009892.	19	55147173	55150343	15	4	52162
SMYD2	1	214454445	214510474	183	21	52172
C20orf196	20	5731039	5844558	376	46	47646

CD300E	17	72606026	72619897	43	8	50353
C11orf82	11	82611017	82669319	115	15	49310
KIFC2	8	145691426	145699585	2	1	42921
BEND6	6	56819773	56892140	130	7	52126
ZNF418	19	58433252	58446761	22	5	49193
SERPIND1	22	21128167	21142008	37	5	52732
SLC17A5	6	74303102	74363878	337	10	51023
IL17RA	22	17565844	17596583	76	19	47106
LSM14B	20	60697517	60710434	17	2	46453
TLX2	2	74740590	74744274	1	1	30343
EXT1	8	118806729	119124092	653	48	49811
RP11-51F10	17	61780205	61829457	83	6	46722
PHF14	7	11013499	11209250	405	20	50709
KRT12	17	39017555	39023462	10	4	49068
LGALS3	14	55590828	55612126	33	5	48451
MUC7	4	71296209	71348714	183	17	53262
DLEC1	3	38080696	38165516	173	14	50275
SPRY4	5	141689992	141706020	23	6	45637
AC012493.1	2	100986705	100987007	1	1	49398
TH	11	2185159	2193107	14	4	36495
Sep-09	17	75276651	75496678	447	45	49452
KRT75	12	52817854	52828309	26	5	50239
NID2	14	52471521	52535712	296	22	50417
AC007401.1	2	36758948	36779411	42	6	50119
ISCA1	9	88879461	88897676	19	4	48873
TMEM119	12	108983622	108992096	24	8	47149
PGLYRP4	1	153302596	153321316	73	5	51506
RBM28	7	127937738	127983962	95	11	47984
CNN1	19	11649532	11661138	23	4	42902
COLEC10	8	120007691	120118821	491	27	46861
CACNB1	17	37329709	37353956	40	12	41448
OXA1L	14	23235731	23241007	11	3	46163
PITX3	10	103989943	104001231	18	3	52282
FRZB	2	183698002	183731890	88	12	49424
EML6	2	54950636	55199157	766	58	50260
C4orf32	4	113066553	113116412	78	10	50184
SECISBP2	9	91933421	91974557	54	10	49974
GIGYF2	2	233562009	233725285	362	16	52218
IGF1R	15	99192200	99507759	772	76	46824
ATP6V0B	1	44440159	44443967	5	2	46510
EDN1	6	12290596	12297427	24	7	43412
SPTLC3	20	12989627	13147411	702	47	51538
HCFC2	12	104458235	104498639	85	13	51489
CD101	1	117544382	117579167	81	16	48717
POLDIP3	22	42979727	43010968	44	8	45925
RYR3	15	33603163	34158303	2036	169	48304
TPD52	8	80870571	81143467	599	30	48687
TMEM89	3	48658192	48659288	2	1	43438
SLC17A2	6	25912982	25930946	56	7	49266
RP11-81K2	17	47448102	47554350	254	37	48431
PHTF1	1	114239453	114302111	95	10	47479

HIST1H4I	6	27107076	27108418	1	1	32610
FHL5	6	97010424	97064512	132	10	52255
EAF1	3	15468862	15484120	17	5	47262
PCBP4	3	51991470	52002426	2	1	40631
C1orf74	1	209955661	209957904	2	1	52878
FKBP7	2	179328391	179343327	20	6	46684
TMEM104	17	72772622	72835918	121	11	47413
ANKRD39	2	97502348	97523832	19	2	44333
VNN2	6	133065009	133084598	73	15	47876
LY96	8	74903587	74941322	91	12	50684
PGAP2	11	3818954	3847601	69	6	49129
KLRD1	12	10378657	10469850	218	15	47461
EPHB1	3	134316643	134979309	1756	126	49896
POLR2F	22	38348614	38437922	65	5	45204
SLC16A8	22	38474141	38480100	11	4	41132
KCTD12	13	77454312	77460540	13	6	45049
FAM103A1	15	83654959	83659809	6	2	48558
RECK	9	36036430	36124448	134	17	48974
PCDHGA2	5	140718539	140892546	378	30	48112
KARS	16	75661622	75682541	66	12	43438
SMOX	20	4101627	4168394	267	31	48899
PPTC7	12	110969120	111021125	42	8	48555
MST1R	3	49924435	49941299	18	4	50500
FAM196A	10	128933694	128994422	106	11	49637
AMH	19	2249308	2252072	5	2	40866
ROGDI	16	4846969	4852951	10	3	49761
MACC1	7	20174278	20257027	198	18	49552
OR5T1	11	56043029	56044146	3	2	51305
IL17B	5	148750887	148783765	85	11	49882
AC004076	19	57905551	57949825	73	12	49579
TMEM55A	8	92006024	92053292	78	9	49574
NCAPH	2	97001525	97039583	28	4	48807
SLC44A5	1	75667816	76076801	882	30	51656
COLCA2	11	111169565	111179460	26	5	51411
DCLK3	3	36753913	36781352	44	10	49033
APOM	6	31620193	31625987	12	4	43796
MFSD1	3	158449987	158547508	231	25	52192
GBA	1	155204243	155214490	16	2	48169
ZNF662	3	42947223	42960825	14	3	47030
KRTAP10-5	21	45999332	46000481	6	2	40660
TSHZ2	20	51588946	52111869	1157	148	48095
RPE	2	210867289	210886300	16	5	47933
BPIFA2	20	31749574	31769218	26	2	47622
COL5A3	19	10070237	10121147	241	32	46798
LGALS2	22	37966255	37978623	25	4	43944
SCN3A	2	165944032	166060577	236	20	48888
KRT32	17	39616063	39623681	46	6	46226
EPS15L1	19	16466050	16582896	155	18	48211
SNAPC4	9	139270029	139293249	73	9	47546
TAPBPL	12	6560856	6575683	44	5	50553
PROP1	5	177419236	177423243	13	5	44891

DOCK7	1	62920399	63153969	251	7	48910
AJUBA	14	23440383	23451851	16	3	47217
BPI	20	36888551	36965907	174	33	47158
PRPF3	1	150293925	150325671	77	9	50781
HEATR1	1	236712305	236767804	291	11	45954
PUS7L	12	44122410	44152620	88	8	46330
EVPL	17	74000583	74023533	53	10	40612
LRIT3	4	110769358	110793471	46	5	50946
AC073657.	15	42073346	42076229	6	2	48382
CASS4	20	54987168	55034396	105	15	44259
RPS15A	16	18792617	18801705	6	2	49469
LCE3E	1	152538130	152539248	1	1	54152
TMEM2	9	74298282	74431606	389	20	50638
ASXL3	18	31158579	31331156	326	21	50442
PKIG	20	43160426	43252888	139	13	48122
RRBP1	20	17594323	17662940	130	21	46649
PIK3R3	1	46505812	46642160	203	14	52262
NCR3	6	31556672	31560762	20	9	44950
GOLT1A	1	204167288	204183220	30	7	49771
NELL1	11	20691117	21597227	2628	204	49548
SLC35F6	2	26987152	27004099	17	3	48882
ARCN1	11	118443105	118473748	52	4	44525
CSPP1	8	67974661	68108498	125	9	41553
KLRK1	12	10524952	10544473	49	5	52437
RP11-196G	16	31094760	31106277	18	4	46146
NGFR	17	47572655	47592379	52	14	44999
PCID2	13	113831891	113863029	31	4	46403
TSPYL6	2	54480315	54483409	9	3	49773
TTC16	9	130478345	130493879	21	3	48136
PHPT1	9	139743176	139745488	3	1	43879
OR10G2	14	22101992	22103096	6	2	51853
CBR4	4	169784921	169931426	211	9	49488
APOD	3	195295573	195311076	45	9	38704
ONECUT1	15	53049637	53083273	68	16	48130
PACS2	14	105766900	105864484	10	3	39367
ZNF717	3	75758794	75834734	73	6	45790
HR	8	21971928	21990897	44	9	41253
ENO1	1	8921061	8939308	23	4	48880
RNF222	17	8294022	8301144	22	6	46589
LY6G6E	6	31679548	31681842	2	1	44558
USP28	11	113668596	113746292	137	14	51352
RNPEPL1	2	241505221	241520789	38	12	48440
OR10H3	19	15852203	15853153	7	3	48694
CXCL5	4	74861359	74864496	2	1	43659
OR10J1	1	159409512	159410600	5	3	45756
DSC1	18	28709199	28742819	129	10	49725
DPH3	3	16299485	16306479	22	5	51436
CLDN19	1	43198764	43205925	18	5	51365
IL6ST	5	55230923	55290821	83	10	46514
EFCAB6	22	43924624	44208217	749	32	52060
NEUROG2	4	113434672	113437328	4	2	48069

PABPC4L	4	135117488	135122903	9	2	46967
RNASE12	14	21058352	21058982	2	1	44630
PLA2G4D	15	42359207	42386752	115	8	51541
UBE2W	8	74692332	74791145	109	14	47561
PIK3IP1	22	31677579	31688520	24	5	44410
LEP	7	127881337	127897681	27	6	45014
UBL4B	1	110655062	110656569	1	1	56632
MTF1	1	38275239	38325292	60	10	50424
TMEM95	17	7258442	7260538	3	1	36544
FAIM	3	138327448	138352218	28	4	44028
SLITRK6	13	86366925	86373623	22	3	38287
GPX4	19	1103936	1106787	6	3	43274
BST1	4	15704573	15739936	148	14	45677
XRCC5	2	216972187	217071026	210	22	50987
CTD-2287C	5	115358088	115394625	164	20	46736
AC019294.	15	76030311	76031568	3	1	56632
RCCD1	15	91498100	91506349	30	6	47572
ZNF397	18	32820994	32847097	40	11	42223
FKBP4	12	2904119	2914576	9	3	46966
VPS45	1	150039369	150117505	87	3	47504
GET4	7	916189	936073	42	9	49048
GLIPR2	9	36136732	36163910	69	16	51508
KLK9	19	51503806	51512890	19	4	46477
ELOF1	19	11661962	11670051	14	4	41744
DDX42	17	61850963	61896677	74	6	48847
FAM102B	1	109102711	109187522	122	6	47548
BACH2	6	90636248	91006627	574	64	49698
RBM23	14	23369854	23388393	43	5	48970
NCOA1	2	24714783	24993571	549	23	50256
PSG8	19	43256838	43359843	135	7	41510
MRPS21	1	150266289	150281414	45	6	51939
ARL14EPL	5	115387163	115395815	52	3	48320
PDHB	3	58413357	58419584	23	5	52195
DDX41	5	176938578	176944470	6	3	38383
ARHGAP1	11	46698630	46722165	23	7	47748
FANCM	14	45605143	45670093	84	7	42982
MSLN	16	810762	818865	15	3	35922
C22orf23	22	38339528	38349676	11	5	41251
ZNF367	9	99148223	99180611	80	5	48666
KRTAP15-1	21	31812597	31813070	2	1	43260
ATPIF1	1	28562620	28573417	32	3	50920
TAT	16	71599563	71611033	22	7	52558
UGT1A5	2	234621638	234681945	209	18	49789
SLC30A9	4	41992489	42092474	330	8	47477
SPOP	17	47676246	47755596	80	17	48654
TP73	1	3569084	3652765	233	40	40705
DNMT3L	21	45666222	45682099	52	13	46639
IQCA1	2	237232794	237416185	272	12	52008
ZC2HC1C	14	75530873	75545126	18	3	46895
MCPH1	8	6264113	6501144	1045	67	48399
ITFG3	16	299546	319942	48	5	48567

C11orf54	11	93474757	93497915	57	4	49871
FTSJ3	17	61896793	61907372	14	2	45004
PINK1	1	20959948	20978004	65	9	51351
LSM6	4	147096837	147121152	67	4	51581
CCDC8	19	46913629	46916841	8	4	51154
AP001816.	4	102268937	102270040	1	1	50758
E2F7	12	77415027	77459360	121	27	50188
ZSWIM8	10	75545340	75561551	4	2	45062
ADAMTS8	11	130274820	130298888	62	16	46790
DDX24	14	94517266	94547591	75	6	51809
UROS	10	127477146	127511817	57	4	51537
GGH	8	63927638	63951730	95	10	52769
TEX33	22	37387163	37403882	65	9	51922
SS18L2	3	42623332	42636606	31	6	47667
PPP1CC	12	111157485	111180744	37	5	49382
EIF2AK3	2	88856259	88927094	62	9	50463
AL354898.	9	133274029	133282639	28	7	45753
MUC15	11	26580580	26593780	40	10	49243
INO80C	18	33032194	33077955	67	11	50698
OR10AD1	12	48596081	48597170	11	2	52875
RIMS3	1	41086351	41131329	106	14	49364
CHRNA1	2	175612320	175629200	40	6	46208
KCNC4	1	110753965	110825722	180	19	50815
SYS1-DBND	20	43991840	44039250	91	6	51344
GPR65	14	88471468	88478419	19	4	50924
MFSD5	12	53645035	53648189	9	3	47578
HIST1H2BL	6	27775257	27775709	2	1	51636
PHF20	20	34359896	34538303	407	13	50740
ZNF677	19	53731577	53758151	92	7	50672
KRTAP5-3	11	1628795	1629693	6	3	53593
SLC13A4	7	135365985	135414006	132	17	51692
WAC	10	28821422	28912041	140	12	49451
HOXD12	2	176964458	176966408	4	2	42085
TIAL1	10	121334199	121356541	29	7	51920
PELI3	11	66234216	66244808	15	3	51400
CDH11	16	64977656	65160015	444	34	49629
WNT11	11	75897369	75921780	68	13	52441
PATE1	11	125616188	125619762	24	7	49749
TSPO	22	43547520	43559248	27	4	43650
EIF3L	22	38244875	38285414	44	8	43519
GPER1	7	1121844	1133451	42	10	50136
LRFN1	19	39797208	39805976	8	2	47480
TM2D3	15	102161847	102192594	49	13	49272
CPSF3L	1	1246965	1260071	2	1	36039
ID1	20	30193086	30194318	4	1	45043
FAM172A	5	92953775	93447404	544	15	48083
GTF2F2	13	45694650	45858237	225	9	50200
TIA1	2	70436576	70475792	63	4	51223
HTR1B	6	78171948	78173490	5	2	44532
C1orf158	1	12806163	12823847	39	6	47369
CCL2	17	32582304	32584222	3	1	48048

HIST1H4B	6	26027124	26027480	3	1	44667
RP1-228P1	12	48413554	48419165	24	4	49827
FAM117A	17	47787694	47866542	61	16	49314
ZC3H13	13	46528600	46626894	152	9	51928
PGRMC2	4	129190397	129209984	19	5	47017
RBX1	22	41347351	41369313	13	3	46924
ZP4	1	238045705	238054094	23	4	38271
SOCS6	18	67956137	67997436	121	17	52062
RLF	1	40627045	40706593	81	12	48609
CKAP5	11	46764598	46867847	110	10	46647
ZNF700	19	12035883	12061588	47	4	45092
TEC	4	48137800	48271881	437	32	50192
HOXB4	17	46652875	46657473	7	3	45170
ACOT12	5	80625824	80689998	164	28	47293
CEACAM18	19	51979838	51994206	71	8	48145
AGK	7	141250989	141355044	119	7	43758
HJURP	2	234742062	234763212	68	9	50364
FGGY	1	59762310	60233347	826	69	49237
LINC01098	4	178649911	178911904	731	51	50405
SOX15	17	7491496	7493488	5	3	52435
CABP2	11	67286383	67290899	3	2	46080
RNGTT	6	89319985	89673348	644	21	49782
FBN2	5	127593601	127994878	1093	33	50727
JMJD8	16	731671	734529	3	1	41613
CLIP3	19	36505562	36524245	27	8	47203
IFITM2	11	307631	315272	10	3	39797
INTS9	8	28625178	28747759	191	17	49623
RBL2	16	53467889	53525561	87	6	51354
OAZ1	19	2269485	2273487	17	5	39934
FGFRL1	4	1003724	1020685	56	11	45822
TACR3	4	104507188	104640973	303	20	49460
DEFB131	4	9446260	9452240	16	2	38521
LDOC1L	22	44888452	44894178	19	2	50640
TXNDC15	5	134209493	134237215	13	5	48780
LCN15	9	139654086	139660707	20	2	45775
ROS1	6	117609463	117747018	406	41	49910
ZNF71	19	57106632	57137849	108	14	47103
RHBDD3	22	29655841	29664198	8	4	51682
MMP15	16	58059470	58080805	25	5	45626
TRABD2A	2	85048774	85134132	246	20	51128
C2orf42	2	70377012	70475747	160	12	50656
AP000974.	11	85563600	85565986	8	2	53491
ACVR1C	2	158383279	158485517	103	15	43651
BATF3	1	212859760	212873327	41	11	50655
ZNHIT1	7	100860949	100867471	20	5	50777
TNFRSF14	1	2487078	2496821	15	3	48569
G2E3	14	31028329	31089269	116	16	47944
C17orf72	17	62075711	62081664	5	2	46267
APOL2	22	36622256	36636000	54	11	45003
GPANK1	6	31629006	31634060	25	9	45103
NEK7	1	198126093	198291550	417	19	47865

RNPS1	16	2303117	2318413	13	2	49495
FAM104A	17	71203492	71232892	93	5	52789
AC017028.	2	240083493	240084053	3	1	53556
NDFIP2	13	80055287	80130210	107	11	50173
AC119673.	1	205682497	205684153	2	1	44581
L3HYPDH	14	59927081	59951148	69	9	51249
HCN4	15	73612200	73661605	121	20	47551
C4orf45	4	159814286	159959912	356	17	51779
MYOF	10	95066186	95242074	581	44	49535
GXYLT1	12	42475647	42538681	120	13	51796
CDC14B	9	99252523	99382112	87	12	45998
SERPING1	11	57364860	57382326	35	4	51136
CERKL	2	182401403	182545392	333	22	50744
MAP2K3	17	21187984	21218552	21	6	46389
GAMT	19	1397091	1401569	5	2	43580
PIGM	1	159997462	160001783	5	3	47827
PRKCG	19	54382444	54410906	21	4	36569
CLCNKA	1	16345370	16360545	75	11	51882
GDPGP1	15	90777040	90785315	17	3	53671
KRTAP9-3	17	39388715	39389705	1	1	41972
FAN1	15	31196055	31235311	83	12	48398
C8A	1	57320479	57383894	185	23	49209
SRSF2	17	74730197	74733456	2	1	40885
LRP8	1	53711217	53793742	143	20	47723
DSC3	18	28569974	28622781	147	18	49860
PEX6	6	42931608	42946958	50	7	48967
BANK1	4	102332443	102995969	1505	80	50199
XPNPEP3	22	41253081	41363838	65	11	44114
OARD1	6	41001366	41065526	132	10	51405
FHAD1	1	15573768	15726779	362	39	47471
EFHB	3	19920964	19988517	200	19	51762
FMN2	1	240177648	240638489	1508	80	51133
USP41	22	20704868	20745048	42	9	47135
TRPC7	5	135548999	135732730	388	23	48921
GRM5	11	88237744	88799113	1538	39	46669
TNFSF8	9	117656003	117692697	75	6	48330
ARHGAP12	10	32094365	32217742	186	15	52415
ST7	7	116593292	116870157	343	35	46042
GPR137B	1	236305832	236385165	187	15	49744
PDYN	20	1959403	1974732	36	6	42803
INF2	14	105155943	105185942	69	10	36435
NEUROD1	2	182537815	182545603	7	2	49124
HIVEP3	1	41972036	42501596	1161	55	48943
C19orf55	19	36249044	36261930	34	9	49192
RBM45	2	178977151	179003738	50	12	49456
NAE1	16	66836778	66907159	86	7	48977
CCDC169-S	13	36742931	36871979	451	15	53179
SFRP2	4	154701744	154710272	11	3	52206
NPAS4	11	66188475	66194178	5	2	48305
RP11-169F	18	70818476	70931715	252	22	45236
ZNF292	6	87862551	87973914	234	14	49627

C11orf85	11	64704989	64739557	76	7	46717
CD40	20	44746911	44758502	21	8	49939
ZNF311	6	28962562	28973093	23	5	50068
CST3	20	23608534	23619110	29	2	51635
ZNF202	11	123594885	123612383	56	6	49548
BRI3BP	12	125478246	125515777	155	17	48602
AP001024	11	107643129	107647344	15	5	49630
ANKRD36C	2	96514587	96657541	72	9	48052
WHAMM	15	83478380	83503611	67	14	49718
INO80E	16	30006615	30017114	21	4	42476
PCDHGB3	5	140749831	140892546	316	26	48323
MRPL23	11	1968508	2005752	107	14	46941
URGCP	7	43915493	43966010	126	15	51782
OR2V1	5	180551357	180552304	1	1	39336
HIGD1C	12	51347705	51364289	79	9	52051
TAS2R30	12	11285557	11287243	5	2	48594
LIPG	18	47087069	47119272	71	16	48307
SLC7A6	16	68298433	68335722	48	7	51898
LSM3	3	14219858	14242619	39	8	48063
DDX49	19	19030484	19039436	17	5	42611
C18orf8	18	21083473	21111746	33	4	50232
GALNT10	5	153570290	153800544	738	54	50174
SMYD1	2	88367299	88412906	137	17	50113
DBX1	11	20177701	20182159	11	4	42754
CD2AP	6	47445525	47594999	303	11	53400
DNAI1	9	34457412	34520982	102	15	51034
CDK17	12	96672039	96794338	247	26	52064
CCDC89	11	85394893	85397320	4	1	49817
PRDM7	16	90122974	90158480	93	11	45431
HNRNPM	19	8509651	8553998	79	10	43981
HLA-DQA2	6	32709119	32714992	55	7	48847
PRDX2	19	12907634	12912694	14	3	43269
SLC2A8	9	130159421	130170703	22	4	50574
MCU	10	74451889	74647452	112	4	40908
TUBG1	17	40761694	40767252	1	1	47171
CAV3	3	8775486	8883492	461	51	47290
C15orf48	15	45722727	45740959	16	4	48349
LMO4	1	87794151	87814606	27	6	43965
METAP1	4	99916771	99983964	156	12	47610
PCDHGA4	5	140734768	140892546	346	27	48252
HSPE1-MO	2	198365137	198415450	41	5	48995
SNRNP200	2	96940074	96971297	27	5	46507
TSPAN32	11	2323227	2339430	60	8	40846
ZNF519	18	14057456	14132489	130	15	50610
ZNF618	9	116638562	116818871	443	37	50478
C20orf201	20	62714733	62715712	3	1	44789
AC011366	5	109218883	109220452	6	2	51604
SALL2	14	21989232	22005350	19	3	42102
ITFG3	16	284545	319942	71	7	48632
ZNF44	19	12335501	12405702	132	9	51543
CLDN12	7	90013035	90142716	347	30	50082

AC011500.	19	39930212	39932082	5	2	52775
WDR18	19	983174	994569	60	7	42050
PLEKHA1	10	124134212	124191867	132	14	52297
GH1	17	61994560	61996179	1	1	35791
TMEM120E	12	122150658	122220907	156	15	49620
USP39	2	85829979	85876403	41	9	49039
PCDHGB1	5	140729828	140892546	359	29	48174
KRTAP4-4	17	39315910	39316983	1	1	30015
C10orf115	10	23492745	23528745	41	8	46621
TBX2	17	59477257	59486827	19	2	45911
CFHR4	1	196819371	196888102	155	13	47412
GABRP	5	170190354	170241051	158	21	46827
OR8H3	11	55889849	55890787	12	2	53351
DTNBP1	6	15523032	15663289	299	18	49941
UQCRFS1	19	29698173	29704448	14	3	46851
CNOT2	12	70636774	70748773	244	17	52677
UBE3A	15	25582381	25684128	165	12	48807
KIAA0513	16	85061375	85127836	294	24	48573
C10orf126	10	29135337	29170827	145	12	47291
KAT2B	3	20081515	20195896	449	29	51485
PVRL3	3	110788918	110994410	362	36	46438
HEXIM2	17	43238067	43247407	4	2	51347
DYX1C1	15	55702723	55800432	280	18	47494
PSG9	19	43715943	43773682	46	6	37157
SPATA18	4	52917497	52963458	73	7	49768
LCP1	13	46700055	46786006	198	31	46906
RABAC1	19	42460833	42463542	3	1	44435
SCFD1	14	31091318	31205018	242	19	47202
MRAS	3	138066539	138124375	118	9	50763
RTBDN	19	12936292	12946242	11	2	48940
NDRG2	14	21484922	21539031	127	36	45129
RP11-287D	2	74438731	74590504	200	24	44492
RP11-676J1	17	812872	814452	8	2	45918
BCL6	3	187439165	187463515	68	12	46924
DDX39A	19	14519631	14530192	10	4	36562
OR52N2	11	5841544	5842578	11	2	51961
IL17C	16	88704999	88706881	3	1	37953
SLC24A1	15	65903704	65953333	74	5	49825
AC079602.	12	121407641	121410095	4	2	46340
CBWD1	9	121041	188979	11	3	42823
KCNJ13	2	233631174	233641278	24	5	51965
ENHO	9	34521038	34523039	4	2	45485
GPC5	13	92050929	93519490	3598	161	49628
RBM38	20	55966463	55984389	44	10	47477
CCDC113	16	58265061	58317740	179	16	51928
NEIL1	15	75639296	75647592	6	2	49193
MTO1	6	74171301	74218959	109	14	48445
SMPD4	2	130908981	130940323	33	1	48709
KRT74	12	52959566	52967609	53	13	47951
PGBD1	6	28249314	28270326	57	11	49335
MEN1	11	64570982	64578766	8	3	44119

IGFL3	19	46623328	46627931	11	2	41499
PRTG	15	55903744	56035288	290	20	48997
MRPL4	19	10362577	10370721	16	4	48248
PTCD2	5	71616194	71656052	37	8	47010
SOHLH2	13	36742345	36871979	452	15	53171
KRT37	17	39577005	39580775	10	4	46578
PEX5L	3	179512746	179754841	616	36	51860
RNF7	3	141457046	141466402	24	4	52495
TPP2	13	103249353	103331521	265	11	51612
ULK2	17	19674142	19771249	98	4	38447
CSF2RB	22	37309670	37336491	106	12	44199
RAD17	5	68665120	68710628	52	5	47446
MUTYH	1	45794835	45806142	14	6	48082
RANBP1	22	20103461	20114878	23	6	49296
SLC17A3	6	25833294	25882514	130	15	49438
KCND2	7	119913722	120390385	664	29	47287
KIAA1522	1	33207486	33240571	46	11	49195
PKD1	16	2138711	2185899	46	5	36173
KRTAP8-1	21	32185016	32185570	1	1	48583
CDC5L	6	44355262	44418163	86	10	39153
ZNF287	17	16454701	16472520	13	2	44821
GAS8	16	90086037	90111383	103	14	47020
GGT5	22	24615622	24641110	76	14	47103
TNIP2	4	2743375	2758103	51	9	49202
ADAMTS14	10	72432559	72522197	425	47	50374
OR8B8	11	124310022	124311054	1	1	49983
NUTF2	16	67880635	67906470	34	7	47487
RASL11A	13	27844464	27847827	6	2	46810
CYP3A5	7	99245817	99277621	28	7	41586
AMZ1	7	2719156	2815134	333	32	47994
DEFB115	20	29845467	29847435	5	2	49078
IBTK	6	82879700	82957471	183	10	52157
TSNAXIP1	16	67840668	67866051	27	5	45505
DOCK9	13	99445741	99738879	798	28	51553
SLC22A1	6	160542821	160579750	98	20	48255
WFDC3	20	44376583	44420571	156	11	50538
DSE	6	116575336	116762424	408	36	49438
GP1BA	17	4835592	4838325	7	4	44260
SLC38A10	17	79218800	79269347	135	18	45768
FOXR1	11	118842417	118852001	20	5	41829
WHSC1L1	8	38127215	38239790	106	7	48814
ZCWPW1	7	99998449	100026615	37	4	49935
AIM2	1	159032274	159116886	130	16	48378
RAB3A	19	18307594	18314884	13	3	47566
DCAF7	17	61627822	61671639	27	5	46633
NOVA1	14	26912299	27066960	213	9	47985
VWA9	15	65871091	65903627	56	6	47597
KRT71	12	52937693	52946931	40	6	45510
TRAM1L1	4	118004718	118006736	1	1	39376
CXADR	21	18884700	18965897	183	17	49414
QTRTD1	3	113724680	113807269	114	13	51193

RBP4	10	95351444	95361501	47	6	50173
SUPT20H	13	37583449	37633850	44	3	46408
NME4	16	446725	460367	27	5	43413
PIGT	20	44044717	44054884	15	4	46144
CCNJ	10	97803151	97820627	24	7	49794
GSTM3	1	110276554	110284384	14	3	46390
ADPRHL1	13	114076260	114107839	88	19	42448
ASPA	17	3375668	3406713	78	15	46547
MEGF8	19	42829761	42882921	46	2	47441
IL2RB	22	37521878	37571094	117	25	46238
CERS6	2	169312372	169631644	717	70	47889
AL591806.1	1	161035655	161035943	1	1	50606
THEM5	1	151819739	151826173	12	2	51321
HS3ST5	6	114376750	114664209	556	55	50454
AL133481.1	10	81266126	81270678	8	2	45332
NDEL1	17	8316449	8393729	99	15	49540
ARTN	1	44398992	44402913	9	3	46046
MYL5	4	667369	675822	9	3	46342
FAM120A	9	96214004	96328397	291	16	48614
ITPKA	15	41785591	41795747	19	4	49164
WWC1	5	167718656	167899308	538	65	49258
GTDC1	2	144695635	145090135	423	27	45423
CDS1	4	85504132	85572491	100	12	47931
TMEM221	19	17546318	17559376	25	5	43717
TPK1	7	144149034	144533488	929	57	47601
EXOSC1	10	99195899	99205774	21	5	52671
MTUS1	8	17501304	17658426	810	55	49577
RFPL4B	6	112668532	112672498	14	3	51987
MIOX	22	50925213	50929077	13	6	37394
CBX3	7	26240782	26252976	23	4	43250
UPK3B	7	76139745	76648340	680	56	45777
FAM117B	2	203499901	203634480	145	18	49935
ATG2B	14	96747595	96830207	129	10	48313
ATG7	3	11313995	11599139	554	18	50368
OR5L1	11	55578854	55579952	5	1	53818
PCYOX1	2	70484518	70508323	40	3	52629
MTAP	9	21802542	21931646	223	22	48189
EFNA1	1	155099936	155107333	10	3	46777
ATG2A	11	64662007	64684722	37	3	47382
ARSK	5	94890778	94940768	73	8	47661
C5orf51	5	41904290	41921738	21	5	46985
SNRPB2	20	16710606	16722421	37	8	48050
LHCGR	2	48859428	48982880	443	44	51031
ARHGEF28	5	72921983	73237818	813	55	49834
CENPA	2	26987157	27023935	61	6	50920
S100A7A	1	153389000	153395701	14	2	47146
RHBDD1	2	227700297	227863931	247	12	50069
USHBP1	19	17359985	17393595	97	15	47965
C2orf68	2	85833777	85839189	2	1	44929
PTPRD	9	8314246	10612723	8680	418	49653
IMMP1L	11	31453948	31531192	66	5	48273

HES4	1	934342	935552	2	1	30258
TPSD1	16	1306060	1308532	8	2	39268
ENTPD1	10	97471536	97637023	430	21	52634
BYSL	6	41888926	41900784	19	6	45957
OR8A1	11	124439893	124441037	2	1	46934
RBM39	20	34291531	34330234	101	6	51856
PSG5	19	43670408	43690688	43	5	35506
TUBA1C	12	49582519	49667114	119	20	47316
DBT	1	100652475	100715390	109	7	48332
WNT8B	10	102222798	102243501	31	2	49690
SLC34A3	9	140125209	140131006	7	2	32812
C3orf22	3	126245842	126277808	123	15	46155
HLA-DQB2	6	32723875	32731311	44	4	50415
ZNF254	19	24216276	24312654	261	12	44903
EEF1B2	2	207024309	207027652	2	1	52220
PPP1R12C	19	55602281	55628927	34	8	45096
MAB21L3	1	116654376	116677861	55	8	49445
FOXO3	6	108881038	109005977	151	16	50356
ZNF763	19	12035890	12090105	104	5	46119
RBBP6	16	24549014	24584184	80	9	51826
CTD-2330K	3	49941278	49954370	11	3	48974
PPP1R27	17	79791368	79792926	2	1	43298
TCTN3	10	97423158	97453900	59	12	50982
C2orf82	2	233721980	233743418	50	9	50125
AK1	9	130628759	130640022	21	6	40682
GPR182	12	57388230	57390468	2	1	47999
HTR2B	2	231972944	231989832	14	4	47539
C10ORF68	10	32832297	33171802	1001	25	52350
RP11-298I3	14	23415479	23451467	44	5	47784
DUSP10	1	221874766	221915518	74	15	49444
P2RX1	17	3799886	3819794	48	8	42548
DAD1	14	23033805	23058175	142	10	50039
C9orf9	9	135753414	135765588	15	5	47582
MYOM3	1	24382525	24438665	156	18	48760
SLC25A19	17	73269073	73285591	42	5	50038
HSPB2	11	111782966	111789574	7	2	45454
LRRC28	15	99791567	99930934	382	21	50245
ZCCHC6	9	88902648	88969369	92	9	49030
MRPL12	17	79670387	79674556	15	4	51282
SDCCAG3	9	139296377	139305061	46	9	49970
UBA2	19	34919257	34960853	71	10	46771
PPP2R5B	11	64685025	64701945	27	5	46047
THAP9	4	83821837	83841122	27	3	46696
PLA2G7	6	46671938	46703430	44	9	50564
THSD4	15	71389291	72075722	1894	132	49003
TIGD1	2	233412779	233415226	9	2	49574
GMEB2	20	62218955	62258394	143	14	47642
CFI	4	110661852	110723335	130	11	46822
CLLU10S	12	92813870	92821924	16	3	50239
AZI2	3	28356494	28390618	30	5	51641
GSTA2	6	52614897	52628367	34	4	47547

ODF2L	1	86814344	86862023	121	11	50778
HFE	6	26087509	26098571	25	9	49036
PRMT7	16	68344877	68392466	113	11	50888
MTCH2	11	47638867	47664175	18	5	48242
TRAF3IP1	2	239229082	239309541	208	17	49750
DDC	7	50526134	50633154	416	23	49553
CGB1	19	49538831	49552006	24	5	39135
NEDD4	15	56119120	56285944	593	21	53213
LY6G5B	6	31637944	31641553	14	6	44060
PCDHGB2	5	140739703	140892546	334	27	48267
DTD1	20	18568537	18744561	570	20	49889
ATXN3	14	92524896	92572965	215	8	52972
FNDC8	17	33448598	33457751	12	4	49692
MMP10	11	102641234	102651359	37	9	51284
APOC2	19	45449243	45452822	14	3	51105
NR1I3	1	161199456	161208092	22	6	51357
VGLL2	6	117586721	117594728	19	3	51192
KRT6C	12	52862300	52867569	25	3	49146
NBPF3	1	21766621	21811498	123	11	49049
DBF4B	17	42785976	42829632	69	15	50765
HORMAD2	22	30476163	30573064	185	19	48481
CEP89	19	33369902	33462897	340	20	52985
ITGBL1	13	102104966	102375456	721	56	50667
NDUFB2	7	140390577	140422590	41	5	46892
EMC7	15	34376218	34394149	33	5	50370
DLK2	6	43418090	43424370	11	3	50556
KIAA1024L	5	129083772	129102425	57	9	50560
FAM160A1	4	152330368	152584784	410	12	52008
CCDC107	9	35658301	35661508	16	4	48960
C5orf47	5	173400782	173433143	121	13	51678
RP11-321N	18	73118967	73130995	28	6	50311
LCN2	9	130911350	130915734	4	2	38728
COL11A2	6	33130458	33160276	89	13	47485
RLN3	19	14138960	14141854	7	2	43419
CBY3	5	179105584	179107975	5	2	44211
ANKRD18B	9	33524392	33573007	118	17	38911
RPAP2	1	92764522	92867613	95	10	47497
SNIP1	1	38000050	38019903	42	9	51508
PRELID2	5	144851362	145214932	742	30	46717
ZDHC11B	5	710475	767067	16	2	35900
DECR1	8	91013633	91064320	109	10	48093
RPL26	17	8280838	8286531	13	3	49848
TMED7	5	114949205	114968689	29	6	51160
CALHM1	10	105213144	105218645	11	4	44476
FAM229A	1	32826871	32829879	1	1	31540
TMTC1	12	29653773	29937692	975	70	50291
SIRT1	10	69644427	69678147	71	7	49200
THOC5	22	29901868	29951205	103	9	52354
KDM4D	11	94706845	94732682	43	8	47853
NDST4	4	115748919	116035032	625	30	50439
HK3	5	176307870	176326333	33	10	38259

OR5H14	3	97868170	97869249	3	1	51114
TTC39C	18	21572737	21715574	309	31	46708
PCDHGA6	5	140753651	140892546	310	26	48298
ACE	17	61562184	61599209	67	6	48088
MPZL3	11	118097409	118123065	67	6	52058
GAPT	5	57787262	57792917	6	2	49534
RABL5	7	100956975	100965104	34	7	52167
RSAD2	2	7005937	7038370	45	8	43071
UGT1A1	2	234668894	234681945	28	8	47676
CLP1	11	57416465	57429340	12	3	48781
SLK	10	105726959	105788991	155	10	47869
RAB11A	15	66018392	66184329	281	17	44965
SLC4A5	2	74443369	74570541	171	23	44063
ADAMTS4	1	161154098	161168846	24	8	50382
CADPS	3	62384022	62861054	1651	83	49133
DNASE2	19	12986025	12992282	6	2	48651
EIF2B4	2	27587219	27593353	8	4	42735
QRSL1	6	107077453	107116292	117	15	51259
TRIM42	3	140396881	140419992	59	9	47582
IFT122	3	129158968	129239198	133	4	49347
DAPL1	2	159651829	159719293	221	23	50798
PPIA	7	44836279	44864163	58	8	46087
MIP	12	56843286	56862950	30	7	46554
ZNF585A	19	37597636	37663643	114	10	47755
ELTD1	1	79355449	79472403	475	25	53111
B4GALNT1	12	58017193	58027138	19	4	50704
S1PR2	19	10334520	10341948	12	3	51189
CAPN5	11	76777979	76837201	149	27	46248
CNFN	19	42891171	42894439	5	1	46240
DIP2A	21	47878812	47989926	350	23	50713
CTB-5409.9	19	5784016	5785630	7	2	40445
PLOD3	7	100849258	100861701	22	6	49925
RNF24	20	3907956	3996229	184	13	51299
CLEC18A	16	69984810	69998141	2	1	49855
SLC22A10	11	62905339	63137190	513	16	49579
EXOC3L4	14	103566481	103576896	25	5	47323
HTR1A	5	63256183	63258334	1	1	37024
TLL4	2	219575568	219620139	74	4	50294
WEE2	7	141408153	141431071	29	2	48329
ZNF541	19	48023942	48059113	26	4	47023
MAN2A1	5	109025067	109205326	560	22	51084
NLRP2	19	55464498	55512510	179	24	46294
KLF17	1	44584522	44600812	47	11	47391
KIAA0895L	16	67209505	67217943	9	3	42863
ACP2	11	47260853	47270457	24	4	47138
CADM3	1	159141399	159173103	54	11	49432
TNXB	6	32008931	32083111	157	29	47140
GPR141	7	37723399	37873390	384	30	49936
SP140	2	231067826	231223762	422	31	51810
CCDC27	1	3668962	3688209	50	9	42094
RP11-318A	17	74729060	74734604	4	2	42330

BSCL2	11	62457747	62477317	30	4	47545
RGR	10	86004809	86019716	53	12	49546
GJA4	1	35258599	35261348	10	3	42217
NMUR2	5	151771093	151812929	144	6	51603
RPS6KC1	1	213224589	213448116	223	16	48465
PLEKHF1	19	30155963	30166364	20	3	44714
PRKAA1	5	40759481	40798476	62	10	51055
LILRB1	19	55085346	55148979	319	17	49309
DPT	1	168664697	168698502	132	18	51489
RP11-697E	15	90792788	90815440	54	5	51181
AGBL4	1	48998527	50489585	1812	49	48486
PCDHGA1	5	140710252	140892546	392	27	48118
PRB4	12	11460017	11463369	10	2	47659
PLEKHA7	11	16799842	17035990	718	47	49648
TMCC1	3	129366635	129612419	219	13	47669
ARFGEF1	8	68085747	68255912	154	16	45143
ZNF763	19	12035890	12091196	107	5	46065
DNAJC12	10	69556427	69597924	59	9	49152
LINC00998	7	112756773	112758668	6	2	45347
NDUFB4	3	120315156	120321347	23	5	47144
FBXW2	9	123514256	123555690	48	5	51385
DEFB129	20	207899	210527	8	2	47570
CD274	9	5450503	5470566	63	11	48875
AL139080	13	24322243	24323901	8	3	53458
OR1N2	9	125315391	125316493	10	3	51331
SMNDC1	10	112050488	112064709	25	7	47822
RPRM	2	154333852	154335322	1	1	45519
OSBPL3	7	24836158	25021253	484	62	48897
STMN4	8	27092840	27115937	82	11	50796
EFCAB12	3	129120164	129147494	53	5	50181
LSM14A	19	34663409	34720420	135	10	51021
ONECUT2	18	55102917	55158529	127	15	45476
SULF1	8	70378859	70573150	427	66	49621
FTCDNL1	2	200625267	200715896	164	24	49732
YBX3	12	10851683	10875911	49	7	53528
EIF3H	8	117654369	117779164	205	17	49192
SOD3	4	24791534	24802464	19	4	46273
COL17A1	10	105791044	105845760	80	12	46326
MAFG	17	79876146	79885590	1	1	32804
DCAF6	1	167905021	168045081	159	9	51013
ZNF610	19	52839498	52871031	102	12	50886
SNAI2	8	49830249	49834299	2	1	43118
AC003006	19	58193413	58264943	136	17	50357
CHRNA1	2	233404437	233411113	22	6	48615
ADAR	1	154554538	154600475	73	7	50481
GSTA4	6	52842751	52860176	69	9	51376
NFRKB	11	129733531	129765485	53	7	51741
STK36	2	219536749	219567439	28	4	48097
OR52K1	11	4510109	4511138	2	1	52995
TMPRSS13	11	117771358	117800174	122	19	49786
SLC45A1	1	8377886	8404227	75	11	49081

C10orf85	10	122357721	122359629	6	2	47816
ACE	17	61554422	61599205	76	8	47371
ABCB1	7	87133175	87342611	374	30	48202
FGG	4	155525286	155534119	3	1	51023
OSR2	8	99956631	99964332	5	2	46893
PDCD7	15	65409717	65426174	3	2	41114
PSMG4	6	3231637	3303607	264	9	48592
TULP2	19	49384222	49401990	66	7	50334
UNKL	16	1413206	1464752	101	11	43519
AMN1	12	31824071	31882108	105	19	50195
SF3B1	2	198254508	198299815	38	5	49272
CHMP4A	14	24678789	24683075	5	3	43989
APBB1IP	10	26727132	26856732	382	39	51260
BIRC7	20	61867235	61871859	20	4	50754
GAN	16	81348557	81424489	254	18	48287
STON1-GTF	2	48757064	49003654	877	54	51184
FAM20B	1	178994939	179045697	147	16	51640
C19orf53	19	13884982	13889276	20	2	51876
PSMA7	20	60711791	60718496	15	2	46408
ACO1	9	32384618	32454767	166	27	50432
THOC7	3	63819546	63849579	34	9	47164
FITM2	20	42931478	42939809	12	3	51754
PRB2	12	11544476	11653975	311	19	48713
NRG1	8	31496902	32622548	3179	124	50021
GALT	9	34638130	34651032	20	5	52012
BECN1	17	40962152	40985367	4	2	41211
AL138847.:	1	63073437	63075249	2	1	42709
COX8A	11	63742079	63744015	1	1	48278
GSKIP	14	96829814	96853625	28	5	51114
N4BP2	4	40058446	40159872	222	25	50399
FKBP9	7	32997017	33046543	98	17	49971
EFCAB1	8	49623348	49647870	41	10	48211
NFE2	12	54685895	54694905	6	2	47132
TTLL8	22	50453552	50495364	132	25	49418
BZRAP1	17	56378592	56406152	75	12	50661
OR56B4	11	6128914	6130065	2	1	45824
PANK4	1	2439972	2458039	32	3	42816
OR2C1	16	3405889	3406924	4	1	50391
HOPX	4	57514155	57548065	98	17	47684
RBMXL1	1	89445139	89458643	8	4	47488
ZFP64	20	50668202	50820847	528	40	51987
MRPL11	11	66202546	66234209	28	7	48456
URB2	1	229761981	229795946	59	7	49803
CDK5RAP3	17	46045176	46059140	37	6	49330
AC026310.	12	25055243	25057615	10	4	51387
DENND4A	15	65950384	66084631	213	11	43521
INPP5A	10	134351324	134596979	439	33	48372
UBE2G2	21	46188955	46221934	98	14	49615
OR10G4	11	123886282	123887217	5	2	53457
SPDYE1	7	44040488	44049721	3	1	52045
CYP26B1	2	72356367	72375167	26	6	44433

SMIM14	4	39547950	39640710	192	23	47411
OR4C13	11	49973943	49974971	4	2	44306
IL2	4	123372625	123377880	6	3	50018
CCDC152	5	42756903	42802462	100	9	52493
ACD	16	67691415	67694713	5	2	48804
COX7B2	4	46736844	46911252	322	18	52193
EXTL3	8	28457986	28613116	246	24	48455
COL2A1	12	48366748	48398269	117	15	50400
CDK13	7	39989636	40136733	224	18	50180
PCED1A	20	2815960	2821836	11	4	42509
XIRP2	2	167744997	168116263	1109	31	49105
ACTL9	19	8807751	8809172	4	2	49318
CD96	3	111011566	111384597	935	54	48535
FAM98C	19	38893775	38899728	29	3	50398
ASPG	14	104552016	104579098	60	9	38528
LZTS1	8	20103676	20161474	197	40	49363
RFC2	7	73645829	73668774	28	4	43938
CLDN11	3	170136653	170578169	1000	65	50629
ANKRD42	11	82904781	82971736	113	12	48961
CXXC5	5	139026884	139063467	49	7	47179
FBXO31	16	87360593	87425748	171	26	43799
TMPRSS11	4	68775103	68829858	140	18	50628
NPFFR1	10	72007085	72043432	123	21	50175
TCP10L	21	33948862	33959683	36	6	52574
ALPPL2	2	233271553	233275424	8	3	53987
PIGV	1	27113963	27124889	13	3	51382
RGS8	1	182615239	182653711	73	8	46384
AC090186	8	52730143	52730969	1	1	51534
SCAMP3	1	155225770	155232221	7	2	43530
SKIV2L	6	31926857	31937532	31	10	46311
SCAND3	6	28539407	28583989	73	12	46725
TBPL2	14	55880259	55923444	166	11	52725
LRRC16A	6	25279306	25620758	1337	71	51694
ADH1B	4	100226121	100242558	36	9	49269
RPL37	5	40825364	40835437	23	8	49769
SLMAP	3	57741177	57914895	228	20	50085
OR4C3	11	48346472	48347507	1	1	38042
DNALI1	1	38022520	38032458	29	7	49555
EVA1A	2	75696428	75796848	246	36	50177
COPRS	17	30178883	30186356	11	4	48677
KANK3	19	8387468	8408146	101	10	50259
PTPN23	3	47422501	47454931	20	2	51045
INTS2	17	59942731	60005377	72	8	48267
CABS1	4	71200683	71202833	6	2	52806
SUMF1	3	3742498	4508965	2512	99	49584
ABAT	16	8768422	8878432	520	60	46763
SEC14L1	17	75082798	75213179	378	36	49377
DRD2	11	113280318	113346413	160	22	47011
SNAP29	22	21213271	21245506	69	8	50527
UFL1	6	96969471	97003152	40	8	51343
NDUFB6	9	32552997	32573160	36	5	51368

SIPA1L2	1	232533711	232697304	405	23	48216
ADAM10	15	58887403	59042177	262	13	48831
SLC30A1	1	211744910	211752084	12	3	50654
IKZF1	7	50343720	50472799	219	36	50372
SOX4	6	21593972	21598847	1	1	35089
TET3	2	74229840	74335303	152	8	49252
AP002884	11	112130988	112132117	2	1	41412
OIP5	15	41601466	41624819	43	5	49706
LSM5	7	32524951	32534895	40	6	52889
HIST1H2AJ	6	27782112	27782607	3	1	51293
SLC26A3	7	107405912	107443670	84	19	47943
AC174470	17	79780293	79784533	8	1	41095
WDHD1	14	55405668	55493823	157	11	51518
ST6GALNA4	17	74620843	74639920	57	8	46807
ABCA7	19	1040102	1065571	96	16	42777
ZHX1-C8OF	8	124238431	124279627	14	7	44411
BCAP29	7	107220422	107269615	61	8	48735
ADCYAP1	18	904944	912173	3	2	31436
TUBB2B	6	3224495	3231964	4	2	34854
ASRGL1	11	62104920	62160882	116	11	51421
NANP	20	25593571	25604811	27	4	45881
C1QTNF8	16	1140005	1146244	17	3	34002
RTP2	3	187416047	187420345	14	3	50467
GPRC5B	16	19868616	19897489	67	10	51183
SPRR2E	1	153065611	153078660	31	5	43219
PMPCA	9	139305110	139318213	40	7	50990
OR51G2	11	4935900	4936922	2	1	51636
ATP1A3	19	42470734	42501649	13	5	46109
CHMP2A	19	59062933	59066491	4	2	42484
SERPINE3	13	51909909	51938871	54	6	49561
ARHGAP5	14	32545320	32628934	47	20	43383
FAM208B	10	5726801	5805703	146	15	50771
RPL41	12	56510370	56511727	2	1	37838
RCAN2	6	46188475	46459709	361	20	45559
SPAG8	9	35808042	35812269	4	2	48203
HECTD3	1	45468212	45477001	17	3	52914
SARNP	12	56146247	56211540	59	9	44676
PYROXD2	10	100143322	100174941	145	8	50134
ZNF7	8	146052849	146072894	38	4	47044
PLK4	4	128802016	128820350	11	5	45638
MUC20	3	195447753	195467994	22	5	40510
RPTN	1	152126071	152131704	7	3	49795
NHSL1	6	138743180	139013708	606	45	49558
JMJD1C	10	64926981	65225722	541	20	47077
CD58	1	117057157	117113661	41	5	41352
BMP5	6	55618443	55740362	216	32	50316
CRCP	7	65579591	65619555	93	9	52025
CCDC92	12	124403207	124457378	105	8	48979
SLC9C2	1	173469603	173572233	213	12	49415
DBNDD2	20	44034697	44039250	5	2	48241
VEGFB	11	64002010	64006259	3	2	48287

PRAC1	17	46799084	46799884	2	1	52478
TMEFF2	2	192813769	193060435	404	44	47132
KMT2C	7	151832010	152133090	118	7	37419
C10orf90	10	128113566	128359079	644	66	49919
ZC3H3	8	144519825	144623623	263	25	48527
OR5H15	3	97887544	97888485	6	3	46447
HCAR2	12	123185840	123187890	2	1	46184
BRIX1	5	34915481	34926101	10	3	49384
SLC16A3	17	80186273	80219005	28	6	38654
HOXA1	7	27132612	27135615	4	2	42883
CYSTM1	5	139554227	139661637	177	9	53248
TBC1D10C	11	67171386	67177560	13	4	43017
DIRAS1	19	2714565	2721416	10	1	45519
SYF2	1	25549170	25558993	2	1	38058
RFK	9	79000433	79009433	31	7	53393
FBXO8	4	175157809	175205415	74	13	51344
BICD2	9	95473645	95527094	113	8	47001
SFTA3	14	36942493	36983034	45	7	49854
MOGAT1	2	223536505	223574649	103	16	50290
EPB41L5	2	120770581	120936695	251	12	49875
MSL2	3	135867764	135916083	44	10	49642
CTSV	9	99794940	99801925	10	2	42789
PRR13	12	53835389	53840429	5	2	45894
NANOS1	10	120789228	120793854	2	1	41645
HIST1H3I	6	27839623	27840099	1	1	43250
EPHX2	8	27348296	27403081	138	9	49945
TP53TG5	20	44002526	44036529	69	6	51747
STX2	12	131274145	131323811	129	7	50105
OXNAD1	3	16306706	16391806	242	18	51580
MIA	19	41277553	41283395	16	4	48318
SERHL2	22	42949623	42970388	45	8	43674
P2RY11	19	10222214	10226048	10	3	48968
NUCB1	19	49403307	49426629	61	11	46073
SRPK2	7	104751151	105039755	418	13	47050
CPXM1	20	2774715	2781283	16	6	44654
FANCL	2	58386378	58468507	167	21	50141
KPNA5	6	117002350	117063029	80	9	52320
DCT	13	95089558	95131936	136	16	51711
ISPD	7	16130817	16460947	955	42	49947
TRAPPC9	8	140742586	141468678	1906	145	49616
MDFIC	7	114562209	114659256	138	26	48018
SUCNR1	3	151591431	151602405	23	7	51645
CR2	1	207627575	207663240	72	9	50381
EIF3M	11	32605344	32627808	57	11	50893
C2orf80	2	209030067	209054797	90	14	50203
FAM83D	20	37554955	37581703	57	6	52106
HFE2	1	145413095	145417545	1	1	34517
SPTLC2	14	77972340	78083116	410	42	52364
C12orf57	12	7052141	7055166	7	3	38125
LY86	6	6588341	6655216	270	39	49736
ELAVL4	1	50513686	50669458	156	24	47451

CD320	19	8367011	8373240	34	3	44707
ZNF248	10	38091751	38147034	158	9	52834
SSBP4	19	18529674	18545372	20	3	43017
FGR	1	27938575	27961788	12	5	38557
PFKFB4	3	48555117	48599448	41	8	42412
RPL31	2	101618177	101640494	49	7	51837
PCBD1	10	72642037	72648541	20	9	50745
CCT3	1	156278759	156337664	94	7	51893
SUPT4H1	17	56422539	56430454	21	5	50529
TAF3	10	7860467	8058590	493	32	49601
PCDHB15	5	140625147	140627799	4	2	45223
SYT8	11	1848709	1858751	33	8	45438
FAM101A	12	124457788	124800570	935	75	50630
LINC01119	2	47043836	47086146	136	26	49377
C16orf90	16	3543484	3545480	3	2	44522
KCNT2	1	196194909	196578355	549	14	48998
BCS1L	2	219523487	219528166	7	2	46168
CDKN2C	1	51426417	51440305	12	4	47197
FASTKD3	5	7859272	7869150	34	9	48066
SCLY	2	238969530	239008054	123	12	51407
TRIM17	1	228595641	228604562	11	3	41134
NFIL3	9	94171327	94186144	27	5	48270
CYP1A2	15	75041185	75048543	10	3	41667
ZNF207	17	30677136	30708905	42	8	42414
SLC25A31	4	128651533	128695448	38	4	49682
CCT6B	17	33254878	33308097	61	13	47781
FECH	18	55215515	55254004	121	20	47816
SMG1	16	18816175	18937776	221	12	52437
PTMA	2	232571605	232578251	24	5	43660
LAMP5	20	9495005	9511171	55	11	46615
ADCY6	12	49159975	49182820	37	4	43498
SPIRE1	18	12446511	12658133	543	27	51414
APOBEC3C	22	39410088	39416357	16	3	42928
RHBDL3	17	30593195	30651680	156	22	47795
BCAS3	17	58754814	59470199	739	43	45050
AGMAT	1	15898848	15911605	43	5	50988
FOXP1	3	71003844	71633140	1128	101	47508
MTA2	11	62360686	62369312	10	2	47324
RPP38	10	15139179	15181817	153	18	47063
H1FNT	12	48722763	48724062	7	3	50731
NR1I2	3	119499331	119537332	127	21	46769
BVES	6	105544697	105585049	105	9	45313
PRDM11	11	45115564	45247734	249	28	47267
DDX46	5	134094469	134190823	62	15	48331
GTF3C4	9	135545422	135570342	75	6	52474
CUTA	6	33384219	33386094	3	2	44232
AGPAT2	9	139567595	139581875	20	4	38272
APCDD1	18	10454625	10489945	110	16	49958
GAB2	11	77926343	78129394	310	4	51192
GTF2IRD2B	7	74508364	74565623	1	1	30023
SLC22A24	11	62847412	62911693	245	12	49200

AL139147.:	1	67131547	67142710	27	6	52342
P2RY13	3	151044100	151047336	9	3	48754
LEO1	15	52230222	52264003	61	5	51833
TMEM59	1	54497347	54519177	28	6	44834
ANKRD18A	9	38540566	38620657	14	5	40666
IL11RA	9	34650699	34661889	14	5	50546
ZNF773	19	58011283	58029772	113	3	54966
ESYT1	12	56512034	56538455	16	5	43055
INPP5D	2	233924677	234116549	518	42	46979
ALOXE3	17	7999218	8022365	68	16	43022
SLC12A3	16	56899119	56949762	219	26	47949
ZBTB7A	19	4044362	4066943	29	5	39964
NAPA	19	47990894	48018497	28	4	45911
SLAMF7	1	160709037	160724611	27	5	50786
AC008686.	19	13890884	13900972	27	3	48921
PLEKHH1	14	68000018	68056329	155	30	48602
EMC8	16	85805364	85833214	73	6	46820
MYO1G	7	45002261	45018697	35	6	51003
KYNU	2	143635067	143799890	322	22	51393
GNPTG	16	1401924	1413352	17	5	43442
ACBD3	1	226332380	226374431	73	11	52525
TUBGCP2	10	135093135	135125841	64	8	39513
RORA	15	60780483	61521518	1838	192	48142
TMEM259	19	1009647	1021117	71	12	38837
MSS51	10	75183339	75193319	4	2	44400
SMOC1	14	70320848	70499083	612	58	49051
FBXL8	16	67193834	67198473	2	1	38728
PNLIP	10	118305443	118327367	25	3	52358
THRSP	11	77774907	77779397	23	3	53641
PLCG2	16	81772702	81991899	1137	95	49789
LIPH	3	185224050	185270401	128	11	49748
ATP11A	13	113344643	113541482	516	36	49035
OR8H2	11	55872519	55873457	9	2	51092
AC022210.	2	85122209	85122345	2	1	55623
TAOK3	12	118587606	118810750	309	15	50039
RP11-477N	17	9694544	9725388	113	16	47856
ZDHHC24	11	66288108	66313709	48	5	51894
TKTL2	4	164392257	164395047	2	1	44836
SLC6A2	16	55689516	55740104	148	28	48778
PKN2	1	89149905	89301938	317	8	41786
DSG2	18	29078006	29128971	109	12	49642
DDX10	11	108535752	108811657	427	16	51314
FAM219B	15	75192328	75199462	9	3	41366
CYB5R3	22	43013846	43045574	91	12	46006
HNRNPUL2	11	62457747	62494856	49	5	47354
FAM76B	11	95502106	95523573	64	8	49604
SYMPK	19	46318668	46366548	167	11	50489
CARD10	22	37886400	37915549	82	13	48801
SAV1	14	51098776	51135049	87	10	51107
UTP23	8	117778742	117861702	191	28	48245
C15orf41	15	36871812	37102449	540	39	50982

GLE1	9	131266979	131304567	32	3	48980
HEXDC	17	80376194	80400521	44	6	43464
TMEM217	6	37179956	37225931	55	10	49620
KRT78	12	53231588	53242876	20	5	50378
OR6C6	12	55688072	55689016	1	1	41349
DLC1	8	12940870	13373167	2008	77	50445
NCAM1	11	112831997	113149158	801	46	46229
GUCY1A3	4	156587863	156653501	172	25	49242
MRPL16	11	59573608	59578345	4	2	45361
CA12	15	63613577	63674360	133	21	46921
DSCAM	21	41382926	42219065	2661	182	47643
FAM50B	6	3849620	3851551	2	1	43808
DEFB128	20	168494	170322	5	2	47301
CAPNS1	19	36630477	36641255	14	5	40585
SREK1	5	65435799	65479443	55	6	49224
MYO7A	11	76839310	76926284	238	29	47718
SUGT1	13	53226844	53275044	114	5	52180
PRKCSH	19	11546109	11561783	19	3	42990
SBSN	19	36014269	36019253	23	7	47716
PCDHGA7	5	140762467	140892546	289	25	48230
ATP2B1	12	89981828	90103077	182	20	49670
TMEM125	1	43735665	43739673	5	3	44850
DCAF12	9	34086385	34127397	112	12	52679
PPIE	1	40157854	40229586	174	29	50932
RP11-723G	18	69399851	69455364	250	17	53034
FBLN5	14	92335756	92414331	222	30	50180
TNIP1	5	150409506	150473138	223	32	49335
CENPO	2	25016005	25045245	67	12	49134
RFX7	15	56379478	56535483	371	14	52425
NDUFC1	4	140188034	140223705	58	4	52934
MPP7	10	28339922	28623415	984	39	47753
HLA-G	6	29794744	29798902	60	6	49032
RP11-598P	8	42873567	42932477	68	7	42742
AAGAB	15	67493371	67547533	86	7	51819
PRPF18	10	13628927	13672868	91	13	49039
CEACAM6	19	42254885	42276113	39	7	50112
GTF2A1L	2	48844937	48960287	407	36	51138
DERL2	17	5374571	5390131	39	9	48642
PLAC8L1	5	145463949	145483932	43	2	49281
RP11-817J1	11	102552041	102554644	4	2	51384
TBC1D9B	5	179289066	179334859	60	9	47624
PSMA2	7	42956460	42971822	26	2	52155
KLHL9	9	21329670	21335379	9	1	52483
CXCR1	2	219027568	219031718	5	2	45600
VSTM4	10	50222290	50323554	324	16	50394
AK9	6	109814059	110012420	451	11	50399
AQP9	15	58430368	58478110	165	22	46739
PAPOLA	14	96967770	97033448	95	10	49624
C9orf169	9	140119087	140120763	1	1	33243
AMZ2	17	66243715	66253297	22	6	50574
TMEM14B	6	10747992	10852986	168	21	46850

KIAA1217	10	23983675	24836772	2073	122	48885
SOX7	8	10581278	10697357	523	19	51905
ODF2	9	131217465	131263571	39	2	47009
BCL11B	14	99635624	99737861	220	34	47308
PPP2R1B	11	111597632	111637151	24	7	45515
FAAH	1	46859937	46879520	28	6	49854
SETD1A	16	30968615	30996437	27	3	46167
TRIM51	11	55650773	55659286	18	6	52836
CHSY1	15	101715928	101792137	243	20	46715
CLEC4D	12	8662071	8674962	33	4	45134
TBRG4	7	45139699	45151646	33	8	47238
SETD1B	12	122242086	122270562	31	4	48436
SUMO2	17	73163408	73179078	16	4	49004
CKM	19	45809672	45826235	55	11	47118
MRPS15	1	36921319	36930038	36	5	51771
FRRS1L	9	111892573	111929571	132	20	51628
CCDC58	3	122078438	122102078	57	10	49386
ZMYM6NB	1	35447136	35450954	6	2	35839
HOXC10	12	54378849	54384063	2	1	52572
TMEM255E	13	114462216	114514926	146	13	47558
OGFOD2	12	123459127	123464590	6	2	46871
CORO2A	9	100883257	100954922	226	41	50097
RAB7L1	1	205737114	205744588	29	7	45051
TCTEX1D4	1	45271585	45272957	2	1	54211
MTMR6	13	25802307	25862147	90	6	50974
AP3D1	19	2100988	2164464	195	18	45795
ICA1L	2	203640690	203736708	165	11	50884
NDUFAB1	16	23592323	23607677	39	5	47193
SRPK1	6	35800743	35889119	176	8	50241
SV2C	5	75378997	75649764	800	54	50220
PCDHGB4	5	140767452	140892546	274	23	48157
NRIP1	21	16333556	16437321	156	18	49390
UBASH3B	11	122526383	122685181	456	64	48466
SLC30A5	5	68389473	68426896	68	8	52748
SAFB	19	5623046	5668489	64	8	44437
CCL27	9	34661877	34664045	5	2	50105
SPC25	2	169690642	169769881	168	21	49014
PSKH2	8	87060602	87100850	67	9	50033
GLYAT	11	58407899	58499447	271	19	49669
KRT77	12	53083410	53097247	38	8	52036
EML3	11	62369690	62380237	15	2	48417
PDE6B	4	619373	664571	117	7	46543
AC018445.	18	77275812	77276057	1	1	33937
SLC36A3	5	150656323	150683327	112	10	50357
GULP1	2	189156396	189460653	526	20	48349
FAM110B	8	58907068	59116838	482	49	49358
DUOXA1	15	45409569	45422136	18	6	39636
OR6C65	12	55794214	55795289	2	1	41890
TAS2R13	12	11060525	11062161	2	1	46346
ZNF211	19	58141761	58154147	72	4	52770
EMC4	15	34517200	34522357	19	5	48584

ANKRD6	6	90142889	90343553	397	30	51373
TLCD2	17	1611064	1613732	3	1	32801
ARSA	22	51061182	51066607	30	10	46313
ID4	6	19837617	19840915	11	4	43492
ART5	11	3659733	3663546	15	4	38219
MARVELD2	5	68710939	68740157	33	2	48760
TBX18	6	85397069	85474237	143	15	52661
COMMD1	2	62115859	62374382	343	21	46162
AADA2L2	3	151451704	151479127	95	12	51388
GPD1L	3	32147181	32210205	220	17	50419
PHLDB2	3	111451344	111695364	822	44	50919
ADAM32	8	38964509	39142430	344	13	52732
RND3	2	151324709	151395525	141	19	49689
AGBL2	11	47681143	47736941	81	10	47628
MEAF6	1	37958176	37980375	68	11	52691
KCTD20	6	36410544	36458920	92	6	51616
MAP3K4	6	161412759	161538417	265	18	48761
C3orf67	3	58703092	59035810	348	20	40814
SLC25A27	6	46620678	46645930	28	5	52045
UBR7	14	93673401	93695561	70	11	49891
ADCYAP1R1	7	31092076	31151089	136	26	43958
DDB2	11	47236493	47260767	54	7	48690
IFNW1	9	21140631	21142144	2	1	49138
ANKEF1	20	9966774	10037410	236	26	51030
VASH2	1	213123862	213165379	107	17	44689
C3orf49	3	63805038	63834312	31	10	46631
AEBP2	12	19556979	19873735	1356	61	50669
AC006547	22	20135950	20138399	13	4	48865
RGL4	22	24030323	24041363	20	5	48635
SRSF5	14	70193617	70238722	97	12	50515
UGT2B10	4	69681711	69696914	60	6	46083
CTC-454I21	19	37583921	37701414	182	14	48440
ZFH3	16	72816784	73093597	585	65	47114
R3HDM4	19	896503	913240	39	9	34661
POLR2A	17	7387685	7417933	117	8	51387
TRMT10B	9	37753804	37778969	50	8	49626
STAP2	19	4324040	4342783	58	9	44289
ZNF652	17	47366568	47439835	145	13	53562
ABCA9	17	66970629	67057205	107	13	43275
UQCR11	19	1597171	1605480	3	1	37868
C12orf36	12	13524023	13540101	77	7	50873
CYP4F31P	2	132044330	132050127	2	1	43247
FNTA	8	42889337	42940931	61	7	43095
KIAA1407	3	113682984	113775460	102	14	51349
BTNL8	5	180326077	180377906	126	7	48048
NEDD9	6	11183531	11382581	539	65	49122
PLET1	11	112118876	112131583	22	4	47059
IQCK	16	19727778	19868907	226	11	50286
KRT31	17	39549976	39553844	15	4	45535
MYO5A	15	52599480	52821247	540	14	51164
ITGB6	2	160956177	161128399	412	38	48196

PGS1	17	76374721	76421195	157	12	51084
PLGRKT	9	5357973	5437878	258	21	51746
FLII	17	18148150	18162230	16	4	45852
CSNK1D	17	80196899	80231607	9	4	35433
WDR96	10	105889646	105992120	203	21	50479
TCTEX1D2	3	196018090	196045170	57	7	49559
C20orf202	20	1184098	1188918	10	3	52900
LFNG	7	2552163	2568811	28	8	41013
CCDC47	17	61822610	61853711	53	5	47008
OSCP1	1	36881428	36916086	123	5	53472
POLR2H	3	184079506	184086384	12	3	45229
PLA2G5	1	20354672	20417683	185	21	49293
RP11-105C	16	59743897	59788752	100	16	50423
C1QTNF4	11	47611216	47616211	3	2	51793
SYNRG	17	35874900	35969544	114	17	49702
UBA6	4	68478370	68566897	253	11	50151
BSPRY	9	116111821	116133513	101	13	49899
TAAR8	6	132873832	132874860	1	1	47999
MGARP	4	140187317	140201492	23	4	51584
ANKRD46	8	101521980	101572012	112	14	50843
PINX1	8	10622473	10697394	384	19	51660
PLCL1	2	198669426	199437305	1237	62	49377
HRH3	20	60790026	60795323	7	4	39457
SYPL1	7	105730949	105753022	52	12	45315
SYNPO2	4	119809996	119982402	505	45	51023
C9orf129	9	96080481	96108696	97	17	51081
CDCA7L	7	21940518	21985702	126	19	48785
CCDC79	16	66788879	66835523	56	5	49910
ZFP69B	1	40915774	40929390	46	13	48606
METTL15	11	28129795	28355054	256	13	47183
SP6	17	45922279	45933240	29	6	49132
SLC2A13	12	40148823	40499891	787	50	48801
FAM132A	1	1177826	1182102	7	1	45742
NVL	1	224415036	224518089	172	13	47414
SPAG16	2	214149113	215275225	2663	76	48986
GIN3	16	58328984	58440048	341	35	48893
PAQR9	3	142668006	142682178	32	9	41029
MTG2	20	60758085	60778624	98	19	47208
GZMB	14	25100160	25103473	15	2	53040
HNRNPUL2	11	62480102	62494821	15	3	48422
MYL6B	12	56546040	56553431	5	2	46050
RAB44	6	36683256	36699870	43	7	50313
SLC35B2	6	44221833	44225291	5	2	44630
FAF1	1	50905150	51425935	556	18	50021
CD70	19	6583194	6604114	77	12	48113
RPGRIP1L	16	53631595	53737850	208	19	46813
SLC22A17	14	23815515	23822121	5	2	47389
NEFH	22	29876219	29887379	28	6	48191
CTBP1	4	1205236	1243741	112	14	47312
BMP3	4	81952119	81978685	49	7	49210
PCDHGA8	5	140772381	140892546	266	22	48093

ADIRF	10	88727949	88743691	46	7	50235
TMEM150/	2	85825671	85830319	3	1	45442
SLC4A1	17	42325753	42345509	35	10	44287
ARPP21	3	35680437	35835988	289	24	48863
TBCE	1	235530675	235612283	193	18	48026
CATSPERG	19	38826415	38861589	106	14	48728
SGMS1	10	52065360	52384923	703	30	51945
GCH1	14	55308726	55369570	154	15	48395
CLYBL	13	100258919	100549387	715	68	49699
SDPR	2	192699028	192711981	21	6	48924
SLC48A1	12	48147699	48176536	86	15	50634
TTI1	20	36611409	36661870	51	8	48848
CCDC88A	2	55514978	55647057	377	18	47445
ZNF205	16	3162561	3170518	12	2	53134
AL355490.:	10	99179228	99185831	11	4	44307
C17orf80	17	71228372	71245091	66	3	52812
RNF125	18	29598335	29653176	111	17	48837
PSKH1	16	67927175	67963581	34	6	48470
PGLYRP3	1	153270338	153283194	29	5	51306
DOC2B	17	5810	31427	52	6	39766
RELL2	5	141016517	141020644	12	5	48124
CCDC7	10	32735068	32863492	379	22	52115
ZNF641	12	48733791	48745197	36	7	49688
ELP4	11	31531297	31805546	270	8	48780
CENPK	5	64813593	64858998	138	11	50761
TFRC	3	195754054	195809060	193	26	49832
PPM1D	17	58677544	58741849	2	1	32902
LIG3	17	33307513	33332083	21	5	49555
PCDHGA3	5	140723601	140892546	368	26	48172
MSH5-SAPK	6	31707797	31732628	53	12	47599
GHR	5	42423879	42721979	495	30	48739
NPM3	10	103541082	103543170	3	1	45760
BLOC1S5-T.	6	7881755	8064597	633	47	50673
OSBPL1A	18	21742008	21977844	467	59	48082
F11R	1	160965001	160991138	62	5	50782
FZD7	2	202899310	202903160	6	3	43032
SERPINF2	17	1646130	1658562	43	6	47756
CENPT	16	67862060	67881714	19	3	48763
ANGPT1	8	108261721	108510283	771	49	49837
KRTAP5-7	11	71238313	71239210	2	1	44700
DLX1	2	172949468	172954405	6	3	44804
LIN7C	11	27516123	27528320	14	3	48483
CYP2J2	1	60358980	60392462	60	9	48817
CLDN9	16	3062457	3064506	2	1	46414
CLDND2	19	51870352	51872257	1	1	43747
USP35	11	77899858	77925757	42	6	48539
PRICKLE2	3	64079543	64431152	1000	80	48335
LHFPL5	6	35773070	35801651	52	5	49586
MYBPC3	11	47352957	47374253	39	10	49112
ORM1	9	117085336	117088755	6	3	43736
SSTR1	14	38677204	38682272	10	3	49708

AC111200.	2	87089023	87092827	4	2	46207
CD46	1	207925402	207968858	83	9	52657
TUBAL3	10	5435061	5446793	38	5	48070
CCPG1	15	55632230	55700708	208	16	47468
FAM63B	15	59063391	59154099	176	16	50221
CGREF1	2	27321757	27341995	24	4	46939
DTX3L	3	122283085	122294050	23	11	47103
LONP1	19	5691845	5720583	69	10	44592
KRTAP24-1	21	31653629	31655276	5	2	41372
SMG8	17	57286761	57292608	6	3	46628
SOX7	8	10582909	10697357	517	18	51946
MS4A10	11	60552821	60568778	45	7	48931
CALM2	2	47387221	47403740	33	8	48119
SENP3	17	7465192	7475287	20	7	45370
NPHS2	1	179519674	179545087	103	13	51464
CDH24	14	23516271	23526747	19	7	39102
EIF4E3	3	71724567	71803924	222	28	51250
ABL1	9	133589333	133763062	391	27	47872
PCSK7	11	117075053	117103241	83	14	48861
GPR83	11	94110477	94134585	83	14	50213
S100A10	1	151955391	151966866	18	4	51143
HNRNPLL	2	38789120	38830728	69	8	47758
DUS3L	19	5784843	5791249	23	4	41234
HAO1	20	7863628	7921121	129	16	47478
COPE	19	19010323	19030206	40	9	41903
MYEOV2	2	241065980	241076224	38	6	48723
DPPA4	3	109044988	109056419	25	5	49729
CHST13	3	126243126	126262134	76	11	47072
UFSP1	7	100486346	100487339	2	1	52491
HOMER2	15	83509838	83654661	287	23	47722
PLXND1	3	129274018	129325661	149	15	49770
LMTK3	19	48988528	49016446	33	3	44841
ZNF70	22	24083769	24093279	21	5	47221
EHD2	19	48216600	48246391	74	11	46074
SRCRB4D	7	76018651	76039012	67	8	51226
SLC35B4	7	133974084	134001803	56	3	51336
PSMG3	7	1606966	1610641	14	3	42475
MICAL2	11	12115543	12285334	583	65	48114
SORBS1	10	97071528	97321171	783	58	48443
RTN4RL1	17	1837971	1928639	268	32	47479
GPR180	13	95254157	95286899	61	9	48365
TREX1	3	48506445	48509044	3	2	45944
SNX18	5	53813589	53842415	115	16	52100
SLC17A1	6	25783125	25832287	130	13	49908
SPSB2	12	6980099	6998522	33	3	45337
MPZL1	1	167690429	167761156	173	22	51576
SH2D3A	19	6752171	6767599	40	5	52827
PRKACG	9	71627469	71629039	3	2	52411
SHFM1	7	96110938	96339203	418	24	49948
CA9	9	35673853	35681156	18	6	50138
CASP16	16	3194220	3199964	11	1	52769

TNFRSF10C	8	22941868	22974950	102	15	46572
GPR132	14	105515728	105531782	18	2	46256
FBXL22	15	63889552	63894627	8	4	43929
RMI1	9	86595626	86618985	27	6	50089
STIM1	11	3875757	4114439	496	26	48724
SLCO5A1	8	70579282	70747299	367	36	49542
ZNF391	6	27342394	27371683	158	6	52792
NFIX	19	13106422	13209610	124	13	43528
DARS2	1	173793641	173827684	31	6	49602
HSPB1	7	75931861	75933612	1	1	31161
RAD23B	9	110045418	110094475	142	15	51726
EBF4	20	2673524	2740753	141	17	49802
PNPLA5	22	44275558	44287893	54	8	49480
PCDHGA5	5	140743898	140892546	327	24	48272
DNLZ	9	139253932	139258241	15	5	41039
SRRM4	12	119419300	119600856	626	41	51343
FXYD6	11	117707693	117748201	118	18	49998
PAFAH1B1	17	2496504	2588909	147	8	49493
ZNF682	19	20107867	20150315	126	10	47871
CHST4	16	71559136	71572649	13	5	50500
TMEM242	6	157710418	157744633	50	8	39154
THAP1	8	42691817	42698468	7	2	41457
DNASE1L2	16	2285817	2288712	5	3	38794
VPS37A	8	17104080	17159936	185	23	48748
CD3G	11	118215059	118225876	18	4	50632
ZNF568	19	37407231	37489602	294	10	52972
FIGLA	2	71004442	71017775	46	6	49076
C9orf171	9	135285430	135448704	429	59	48283
CHD8	14	21853353	21924285	103	8	43502
WNT8A	5	137419581	137428054	13	5	49141
COCH	14	31343720	31364271	34	13	44192
DERA	12	16064106	16190220	158	20	46489
IFLTD1	12	25562241	25801513	752	61	50291
CFLAR	2	201980827	202041410	117	12	49100
RP11-505K	16	83941738	83985058	191	24	49975
CLU1	12	92815307	92824778	25	4	49985
NAGLU	17	40688190	40696467	7	3	44948
GS1-259H1	7	99156291	99205433	53	7	46657
DHX30	3	47844399	47891685	33	4	47503
TTN	2	179390716	179695529	465	30	46640
CEP120	5	122680579	122759286	203	13	52274
IDH2	15	90626277	90645736	42	8	46954
KAZN	1	14925200	15444539	1572	166	48222
TRDN	6	123537483	123958238	1122	57	50701
ZC3H12C	11	109964087	110042566	220	13	52036
DYNC1I1	7	95401866	95739634	766	61	50536
IL18RAP	2	103035149	103069025	132	13	52435
TMEM176E	7	150488373	150498448	42	10	49639
PRKAR2B	7	106685094	106802256	218	19	49828
GDAP1L1	20	42875887	42909013	71	8	48346
SRSF11	1	70671365	70718735	49	6	48543

GMDS	6	1624041	2245926	1305	98	49056
PIK3C2B	1	204391756	204463852	135	12	49128
KHDC3L	6	74072400	74073894	4	2	48586
ITGA8	10	15555948	15762124	516	34	49530
RP11-192H	17	26782770	26941215	208	26	48827
DGCR14	22	19117792	19132197	23	3	50587
CLSTN1	1	9789084	9884584	92	8	44001
RNASEH2A	19	12917394	12924452	27	4	46207
DYRK1A	21	38738092	38889753	349	18	52604
SHANK3	22	51112843	51171726	111	24	45905
ARPC2	2	219081817	219119079	51	6	46724
PRSS12	4	119201193	119274158	165	23	50235
C10orf35	10	71390007	71393352	20	4	50477
MAML1	5	179159851	179223512	140	13	47730
PPP1R18	6	30644166	30655672	27	6	40297
PLXNB2	22	50713408	50746056	71	11	42589
CWC15	11	94695787	94706776	22	6	48867
SLC25A21	14	37147636	37642071	1247	80	48939
TK1	17	76170160	76183314	46	10	42301
PRIM1	12	57125380	57146157	24	4	46564
N4BP1	16	48572637	48654059	135	5	51192
SMG7	1	183441351	183567381	191	25	48848
PRPSAP2	17	18743398	18834581	234	14	52964
MBD4	3	129149787	129158878	16	2	47783
JKAMP	14	59951161	59972128	66	7	51765
STRIP1	1	110574199	110617263	51	6	49711
NCLN	19	3185561	3209573	66	5	48359
PRDM16	1	2985732	3355185	997	117	43994
FABP9	8	82370576	82373814	7	3	42560
IFNA13	9	21367371	21368075	1	1	51298
GPALPP1	13	45563687	45607746	87	11	45078
PDE8B	5	76506274	76725632	561	37	50813
CPNE1	20	34213953	34252878	82	7	51902
DCLK1	13	36345478	36705443	1011	85	49635
LCN9	9	138555168	138558268	6	3	38704
GOLGA3	12	133345495	133405444	176	20	49168
DPYSL4	10	134000404	134019280	40	6	45710
RP13-279N	1	19175767	19247615	294	32	41908
PNPLA2	11	818902	825573	11	3	47888
PHLDB1	11	118477155	118528741	72	11	49958
SLC26A7	8	92221722	92410378	344	29	50332
FAM136A	2	70523107	70529222	13	2	51579
FAM187B	19	35715703	35719632	13	4	47282
PIM3	22	50354161	50357728	8	2	47658
MUSTN1	3	52867130	52869235	7	2	45370
RARS2	6	88224096	88299721	224	14	53088
COMMD6	13	76099350	76123575	75	12	49849
LY6G6D	6	31683133	31685581	5	2	41751
C9orf131	9	35041092	35045988	8	4	42671
C10orf131	10	97667360	97698480	97	15	50745
TEK	9	27109139	27230173	596	60	51521

DLX3	17	48067369	48072588	19	4	47474
METTL13	1	171750788	171783163	91	6	52343
FXYD6-FXYI	11	117690878	117747382	164	29	49260
DPH2	1	44435672	44439041	3	1	51590
ZNF554	19	2819872	2835771	61	8	47751
CRHR2	7	30692200	30739745	95	16	46002
OR51J1	11	5423827	5424777	12	2	52886
ERCC1	19	45910591	45982086	167	24	45207
SIPA1	11	65405568	65418401	19	6	48404
OR2G3	1	247768856	247769838	4	2	53399
AC127496.	17	78977135	78978932	7	2	45319
THRB	3	24158651	24536773	982	106	48988
AC064874.	2	236682499	236692031	33	2	53006
PROM1	4	15964699	16086001	371	53	49423
IER3IP1	18	44661027	44702652	129	11	51994
COX10	17	13972813	14111994	316	28	50318
GPR56	16	57644564	57698944	184	37	45190
ARRB2	17	4613784	4624794	17	3	44065
MAK	6	10762956	10838764	125	14	47288
AIFM2	10	71857979	71892690	87	19	47213
RFPL3S	22	32755893	32778039	147	15	46473
NFATC4	14	24834879	24848810	28	7	47742
PPME1	11	73882144	73965748	105	8	39740
B3GNT5	3	182971032	183016292	28	9	41070
SFTPC	8	22014426	22021992	14	5	39732
SCNN1A	12	6456009	6486896	47	11	39881
HSPA8	11	122928197	122933938	29	7	44785
EPX	17	56270098	56282535	19	5	45817
IMMT	2	86371055	86422893	118	7	51326
GPR88	1	101003693	101007574	8	3	47655
MGA	15	41913422	42062141	226	18	46592
RPL5	1	93297582	93307481	9	3	47596
TDGF1	3	46616045	46668033	224	25	51476
PTTG1	5	159848829	159855748	11	4	48636
PIP5K1C	19	3630181	3700477	147	17	46852
FCGR2B	1	161551101	161648444	115	13	41425
FGF2	4	123747863	123819391	251	32	47559
MN1	22	28144265	28197486	84	26	43370
DECR2	16	451826	462487	17	3	45693
FOLR1	11	71900602	71907345	9	3	48063
CEPT1	1	111682249	111727724	58	11	49201
PIK3AP1	10	98353069	98480271	297	35	49360
TEAD1	11	12695969	12966298	422	39	48983
MSH5	6	31707725	31732622	54	13	47460
OSGEPL1	2	190611386	190627953	19	4	51362
OBP2A	9	138437985	138441815	21	3	49955
GREM1	15	33010175	33026870	52	9	48925
RP11-766F	4	100557686	100575805	50	11	48612
HLA-DRA	6	32407619	32412823	53	8	48040
PROS1	3	93591881	93692910	60	11	48603
LRRC41	1	46726868	46769280	33	9	44425

ANAPC7	12	110810705	110841535	61	7	48530
DHRS11	17	34948228	34957235	12	3	47415
UBFD1	16	23568392	23585710	44	6	40186
MYLK	3	123328896	123603178	333	32	45765
PGLS	19	17622438	17632097	20	5	44314
DNAJC22	12	49740700	49751309	26	2	43186
FAM222A	12	110152033	110208312	99	13	48860
ISY1-RAB4E	3	128806418	128879879	50	7	38946
RBM12	20	34236847	34252878	37	5	51730
EVX1	7	27282164	27290112	10	3	42605
PKIA	8	79428374	79517502	179	15	50140
ZNF770	15	35270542	35280488	14	4	46560
CCDC106	19	56152428	56164527	22	5	47341
FOPNL	16	15959577	15982482	172	5	52792
WARS2	1	119573839	119683294	253	19	50318
HTATIP2	11	20385231	20405329	46	7	49315
TMEM65	8	125324231	125384933	104	10	52167
TEX36	10	127265091	127371713	152	14	47759
RP11-468E	14	24590560	24601038	19	2	49985
ATXN7	3	63850233	63989138	188	21	47956
C10orf32-A	10	104614029	104661656	134	14	52562
WIPF1	2	175424300	175547644	172	24	49954
OVCH1	12	29565407	29650619	255	15	51152
RIMKLA	1	42846466	42888249	126	7	53495
PCDHGA9	5	140782520	140892546	239	28	48380
ZACN	17	74068042	74079747	6	1	47206
ATP6V1G2	6	31512239	31516204	13	6	48600
MS4A12	11	60260251	60274903	52	3	51995
NDUFV3	21	44299754	44333414	135	13	49703
ACTN4	19	39138289	39222223	236	18	50904
APLP2	11	129939732	130014699	192	10	51481
CTNBL1	20	36322408	36500531	267	16	50450
CEP97	3	101442769	101489406	53	8	51582
LRP2BP	4	186285032	186317053	89	15	48980
C8orf74	8	10530147	10558103	32	10	44711
DNTTIP2	1	94333373	94345474	43	8	47108
HLA-C	6	31236526	31239907	65	12	50208
RRH	4	110749150	110765760	39	3	48593
DHRS1	14	24759804	24769039	18	5	47048
C2CD4B	15	62455734	62457482	6	3	51484
IWS1	2	128193783	128284462	210	20	48758
PTGES	9	132500610	132515326	47	4	49628
LARS2	3	45429998	45590913	306	19	49192
FUS	16	31191431	31203127	4	2	45793
GJA3	13	20712394	20735188	79	14	44943
SLC25A40	7	87462883	87505672	66	7	49734
AC073343	7	6713376	6715991	11	4	48626
UAP1L1	9	139971953	139978991	8	3	40019
KRTAP5-6	11	1718425	1718985	3	1	33893
TRPM8	2	234826043	234928166	282	41	48173
ZBTB12	6	31867384	31869769	6	3	45475

C1orf198	1	230972865	231005335	97	17	49124
LCN10	9	139632619	139637808	13	2	45633
TFF2	21	43766466	43771237	13	4	49881
FUT1	19	49251268	49258647	16	4	43527
FUK	16	70488324	70514177	15	8	41094
EBI3	19	4229495	4237528	31	3	40838
C6orf15	6	31079000	31080336	16	5	50180
CAMSAP3	19	7660788	7683190	44	6	47067
NPSR1	7	34697851	34917944	688	44	51221
MLF1	3	158288952	158325041	102	11	52818
POLR3K	16	96407	103628	21	3	41302
SORL1	11	121322912	121504402	305	37	46948
KLHL26	19	18747775	18781309	77	11	52105
C12orf49	12	117153593	117175875	53	12	47768
SLC7A6OS	16	68318406	68344849	39	7	50980
DDX6	11	118620034	118661858	68	8	52653
GGTLC1	20	23965690	23969416	6	2	42265
COQ3	6	99817276	99842080	73	11	53043
CSNK1A1L	13	37677398	37679803	7	2	50798
GABPB1	15	50569389	50647605	150	10	48507
LTK	15	41795836	41806085	20	5	47968
CALY	10	135138927	135150475	21	6	38811
AL031666.1	20	45947246	45949467	2	1	35367
HAS1	19	52216365	52227247	41	8	46858
OSBP2	22	31089769	31303811	537	41	49568
SPAM1	7	123565286	123611468	104	15	51338
LRRC46	17	45908993	45915079	19	7	45764
DHFRL1	3	93766680	93782233	10	3	48744
EZH1	17	40852293	40897071	29	4	49198
EVC2	4	5544499	5711275	513	39	49614
BBS1	11	66278077	66301098	39	4	51998
OR6B1	7	143701022	143702068	2	1	44271
TTYH3	7	2671585	2704436	67	13	45349
SAMD10	20	62605466	62611361	16	2	46590
CPEB1	15	83211951	83317612	231	25	50117
RP11-166N	3	150600784	150659530	153	28	46216
TMEM101	17	42088556	42101314	23	5	48351
CLINT1	5	157212751	157286183	185	13	50696
REG4	1	120336641	120354283	39	6	48930
VSTM5	11	93551398	93583697	88	12	49130
OR51V1	11	5220965	5221930	2	1	39630
MYADM12	17	79897521	79905109	16	2	40927
AFM	4	74347400	74369691	48	7	45746
LGALS1	22	38071615	38075813	7	2	51340
KIF11	10	94353043	94415150	210	20	46130
OR4K15	14	20443603	20444818	8	1	45818
ZSCAN9	6	28192664	28201260	26	6	50774
SPINT4	20	44350990	44354469	20	2	47586
DPP3	11	66247484	66277130	51	4	51796
RPL21	13	27825446	27830828	11	3	46028
CCDC85A	2	56411258	56613308	578	44	50079

MRPL46	15	89002707	89010650	2	1	40212
AFF3	2	100162323	100759201	1051	45	51906
ZKSCAN4	6	28212401	28227011	27	7	52919
RBM15B	3	51428731	51435330	3	2	40305
PABPN1	14	23790498	23795394	4	2	47220
BPIFB3	20	31643230	31661434	55	8	50868
COQ9	16	57481337	57495187	27	8	48342
TULP4	6	158733692	158932860	610	26	51195
ADPRM	17	10600911	10614550	22	2	53150
TAF11	6	34845555	34855866	22	6	45953
AC068533	7	65552756	65617228	148	12	52242
EFHD2	1	15736391	15756839	45	12	45781
LHFPL4	3	9543481	9595486	164	14	50873
AC026740	5	667759	668839	2	1	50985
RP11-139J1	10	18931405	18944123	34	6	52493
WFS1	4	6271576	6304992	140	8	52410
POFUT2	21	46683843	46707813	52	5	52140
KIF6	6	39297766	39693181	984	58	50294
MEX3D	19	1554668	1568057	3	1	37713
TBPL1	6	134273308	134311570	65	5	44993
WIPF3	7	29846102	29956682	345	31	50312
FAM26D	6	116850174	116880031	63	9	48795
BID	22	18216906	18257536	112	21	44953
SLC2A12	6	134309835	134373774	103	17	44458
DEFB136	8	11831446	11832108	3	1	47102
PRR11	17	57232860	57282066	68	7	47827
TMEM75	8	128959126	128960591	2	1	41574
LPL	8	19759228	19824769	149	24	48956
AL365202	9	3452305	3469181	17	2	46902
RP1-309K2	20	34220262	34262466	85	7	52020
RAD54L	1	46713360	46744145	32	9	44654
KCNQ5	6	73331520	73908574	1262	87	49895
H3F3C	12	31944123	31945175	6	3	48352
ERG	21	39751949	40033704	816	76	48430
KRTAP2-3	17	39215495	39216344	1	1	55273
IKZF2	2	213864429	214017151	323	23	46782
SAPCD2	9	139956581	139965040	18	3	42185
LPGAT1	1	211916799	212004114	272	20	49989
OR2M2	1	248343288	248344331	2	1	50945
SH3PXD2B	5	171752185	171881527	423	21	50806
IPPK	9	95375466	95432547	127	12	45427
ABCF3	3	183903811	183911800	21	6	50177
CERS2	1	150933059	150947479	25	5	50439
C1orf54	1	150240600	150253327	13	3	48844
GABRG2	5	161494546	161582542	143	24	49033
TEAD3	6	35441374	35464853	34	13	45493
RPL15	3	23958036	23965183	12	5	46392
KCNMB1	5	169801675	169816681	66	10	49756
TTLL13	15	90792762	90808199	49	4	51333
SUCLA2	13	48510622	48612125	414	19	50317
KRT6A	12	52880958	52887041	36	5	48982

SEC14L3	22	30843946	30868036	87	10	48125
CUX1	7	101458959	101927249	1047	52	49523
WDR12	2	203739505	203879521	238	12	50711
MCM7	7	99690351	99699563	21	4	52423
IQUB	7	123092454	123175131	113	13	52534
ZNF438	10	31109136	31320866	580	23	51880
AC114783.	2	127656472	127659673	15	2	50509
SNCAIP	5	121647049	121799914	196	16	49524
CLEC2B	12	10005583	10022735	58	11	48373
USP46	4	53457138	53525502	66	4	48179
MNS1	15	56713742	56757335	70	8	53011
SLIT3	5	168088745	168728133	2087	153	48807
TMPRSS3	21	43791999	43816955	100	26	45861
RASSF7	11	560404	564021	11	4	46183
THTPA	14	24025216	24029480	3	1	40682
SLC37A1	21	43916118	44001550	318	21	49597
NGB	14	77731826	77737655	9	4	45844
BCHE	3	165490692	165555260	163	17	49840
RP11-613M	9	37588410	38068684	1156	47	50760
TSSK3	1	32817122	32829913	4	2	36420
CTD-3074C	11	66276550	66301084	42	4	52277
RPL28	19	55896713	55914612	79	14	43395
TMC6	17	76106539	76128488	47	15	38533
C1orf210	1	43747554	43751288	5	2	47895
ZBTB1	14	64970430	65000408	75	6	52876
UNC93A	6	167684657	167729507	187	24	51563
DEGS2	14	100612756	100626500	40	8	51744
CAND1	12	67663061	67713731	148	13	50532
PLSCR2	3	146109208	146213778	261	11	53907
CACNG8	19	54466294	54493469	74	9	40738
NAT14	19	55996371	55998935	3	2	44641
NPBWR1	8	53850991	53853677	9	4	51286
KPNA3	13	50273447	50367057	238	25	48281
AOC2	17	40996617	41002724	3	2	41567
COPS5	8	67955314	67996018	42	4	42980
CTD-3203P	16	27279526	27301813	23	4	50233
CLEC2L	7	139208602	139229730	20	2	37304
HSF2	6	122720691	122754264	61	8	52435
ABCC2	10	101542489	101611949	127	13	50109
PPP1CA	11	67165654	67188654	35	6	43467
PRMT3	11	20409076	20530840	256	15	46614
LYSMD2	15	52015208	52043782	67	6	50966
SMG5	1	156219015	156252620	73	7	52383
R3HDML	20	42965626	42979875	53	4	51562
CYP2A7	19	41381344	41388657	41	8	49474
SLC39A14	8	22224762	22291642	214	15	50926
NUPR1L	7	56182374	56184093	2	1	52525
HSD17B6	12	57145945	57181574	31	6	49211
OR52I1	11	4615037	4616243	6	2	49256
C7orf69	7	47834889	47859445	87	15	51900
GLT1D1	12	129337972	129469509	443	59	49348

RAB43	3	128806412	128841644	23	5	38373
CD6	11	60739115	60787849	177	32	49595
TECTB	10	114043493	114064793	56	15	50122
ZSCAN5B	19	56700939	56709289	23	5	43669
MRPS11	15	89010684	89022222	4	2	37528
DRAM1	12	102271129	102405908	443	48	49188
AKT3	1	243651535	244014381	418	17	48962
PPIL2	22	22006559	22054304	148	16	47501
CCDC80	3	112323407	112368377	85	14	48298
NRG2	5	139226364	139422884	312	30	50011
XPO6	16	28109300	28223241	95	5	46379
AC005003.	22	31742875	31744670	4	2	48666
MATN1	1	31184124	31196434	26	3	50650
TMEM115	3	50392180	50397041	3	2	39549
POMK	8	42948658	42978577	33	4	44983
APOC4	19	45445495	45452820	20	4	49100
APOC4-APC	19	45445495	45452822	20	4	49100
ETV3	1	157090983	157108266	10	4	43656
PITX1	5	134363425	134370503	21	3	47664
AC008267.	7	65939543	65940709	2	1	53695
YIPF7	4	44624086	44680573	211	15	50149
EML2	19	46110252	46148887	86	13	45471
PSMA3	14	58711549	58738730	38	6	50492
SULT1A2	16	28603264	28608430	20	4	49132
LEPRE1	1	43212006	43232755	36	8	49569
TRIM38	6	25963030	25987384	35	10	48731
APOBEC2	6	41021043	41032250	24	3	53016
CD1A	1	158223927	158228059	13	4	46009
ACTA2	10	90694831	90751147	115	24	48095
TMC5	16	19421818	19510435	328	25	47642
IFT27	22	37154246	37172300	33	4	47793
FSCN2	17	79495422	79504156	10	4	38455
GPR75	2	54080050	54087126	15	6	48363
NDFIP1	5	141488070	141534005	155	12	51062
KIAA0368	9	114122972	114247025	207	17	49383
COASY	17	40713485	40718295	5	1	51663
GRM2	3	51741086	51752629	2	1	35015
TAF8	6	42018251	42055199	123	22	46368
WDR76	15	44119161	44160617	47	3	52225
MRPS2	9	138391830	138396519	10	2	43525
ZNF154	19	58208735	58220579	28	6	50590
CCAR2	8	22462145	22479027	55	5	46790
HBB	11	5246694	5250625	13	5	44355
VRK2	2	58134786	58387055	465	27	50407
HEXB	5	73935848	74018472	227	33	50231
RBP5	12	7276280	7281538	11	4	53478
C16orf89	16	5094123	5116111	45	9	50467
BORA	13	73302061	73330336	40	10	48994
C15orf40	15	83657193	83680393	42	8	46286
FAM8A1	6	17600586	17611950	16	3	49420
PRKRIR	11	76061000	76092015	53	13	50700

SDF2	17	26975374	26989207	9	4	47948
NMD3	3	160822484	160971320	292	17	50203
ACP1	2	264140	278283	28	5	50004
MAT1A	10	82031576	82049440	55	10	49139
LY9	1	160765864	160798051	71	6	51883
AL138815.:	13	26442061	26455095	14	3	50980
LINC00955	4	3578596	3592438	1	1	32494
SLC44A1	9	108006903	108201452	373	19	44477
NLRP6	11	278365	285359	8	3	42476
OR7A17	19	14991138	14992264	6	2	50267
TTC29	4	147627790	147867034	515	18	51719
DEFB108B	11	71544246	71548756	13	3	44936
CTD-2561J:	19	21587961	21674068	193	11	52208
RCVRN	17	9799637	9808938	47	6	48214
FBXO38	5	147763498	147822399	55	3	49055
NANOS3	19	13972877	13991571	21	5	42239
MAD2L1BP	6	43597277	43608689	18	5	43601
SIX1	14	61110133	61124977	10	2	44436
MAEL	1	166958346	166991451	76	12	46068
SIAE	11	124503009	124565603	76	3	38788
DHRS4	14	24422795	24438488	31	3	44047
ZSCAN25	7	99214569	99230030	13	3	42597
IFNL1	19	39786965	39789313	2	1	41545
PLK3	1	45265897	45271662	8	2	49389
SPG7	16	89557325	89624176	175	10	51141
SMCO1	3	196233748	196242237	7	1	52015
RP11-683L:	18	47225	73545	5	2	37551
AL009178.:	6	168196210	168198927	9	4	38021
MAPK4	18	48086448	48258194	359	44	49387
ACTN1	14	69340860	69446157	362	39	50486
CDH1	16	68771128	68869451	255	18	49594
ARHGEF5	7	144052381	144077725	8	1	52186
MXI1	10	111967363	112047123	178	16	48878
LOXL1	15	74218330	74244478	96	14	48639
ENPP2	8	120569326	120685693	235	31	50840
PKNOX2	11	125034583	125303285	679	74	48687
AC005544.	17	65027509	65028198	1	1	41004
SLC12A1	15	48483861	48596275	128	8	47420
OR2L2	1	248201474	248202607	1	1	47562
EBLN1	10	22497743	22498950	2	1	48583
IFRD1	7	112063023	112121072	180	21	51001
ZNF557	19	7069455	7087979	53	9	48150
HENMT1	1	109190912	109204148	14	5	45228
SAP30	4	174291120	174298683	3	2	41964
FOXD2	1	47901689	47906363	6	3	51196
FAM169A	5	74073399	74162776	141	7	50634
ZNF280D	15	56922379	57210769	448	18	48757
CHD9	16	53088945	53363062	580	21	50950
MOB4	2	198380295	198418423	33	5	48573
GNAQ	9	80331003	80646374	434	19	49262
CHAF1A	19	4402659	4445015	78	7	51366

GLTSCR1L	6	42749765	42836298	104	10	46994
JAKMIP1	4	6027926	6202318	454	72	44789
TAF7	5	140698057	140700330	5	2	49226
BHMT	5	78407602	78428108	50	10	48050
HPGD	4	175411328	175444305	112	22	50074
REEP4	8	21995533	21999464	6	2	34836
RANBP6	9	6011043	6015618	5	2	46747
NPM2	8	21881636	21894408	26	8	47424
C22orf29	22	19833661	19842419	28	5	48050
CCDC86	11	60609544	60618554	29	8	51427
PCDHGB6	5	140787770	140892546	228	28	48366
DHRS7	14	60610838	60636574	62	2	48224
HARS	5	140052758	140071609	25	4	50626
AKAP13	15	85923802	86292586	1129	34	49633
ALDH3B2	11	67429633	67448671	47	4	46604
KLKB1	4	187130133	187179625	142	15	52068
ATP10A	15	25922420	26110317	729	75	48651
DNAJC16	1	15853308	15918874	172	11	51959
LETM2	8	38243725	38267045	25	4	49869
MRPS18A	6	43639040	43655528	36	6	47820
KRTAP10-7	21	46020497	46022091	9	1	36387
MZF1	19	59073298	59084942	16	3	44010
RASL10A	22	29708922	29715668	5	3	49877
OR1M1	19	9203855	9204889	1	1	47998
ZNF526	19	42724423	42732353	2	1	51546
ALDH18A1	10	97365696	97416463	169	20	50538
PLEKHA6	1	204187979	204346793	447	31	51209
MRPS22	3	138724648	139076065	661	46	50088
TRAPPC6B	14	39617015	39639736	58	11	52608
ANO2	12	5641035	6055398	1253	97	50021
FCN1	9	137801431	137809809	23	3	48522
ZNF286A	17	15603006	15648092	48	9	41201
PGM5	9	70943224	71145977	192	18	40747
SUFU	10	104263744	104393292	259	11	50807
RXFP3	5	33936491	33939023	2	1	42805
FEZ2	2	36778570	36873230	274	18	50770
KIF21B	1	200938520	200992828	118	12	50509
LGR6	1	202163029	202288909	277	28	49164
ERO1L	14	53106634	53162618	106	11	51399
VAMP1	12	6571403	6580153	24	4	50115
PPT1	1	40538379	40563375	85	9	49148
RP11-480I1	1	202789394	202796353	8	2	52745
ARHGAP15	2	143848931	144525921	1360	77	50884
PALM2	9	112403068	112713755	1081	68	51294
YME1L1	10	27399383	27444195	150	12	48858
SEPSECS	4	25121627	25162204	63	11	51306
C5orf55	5	441645	443258	10	3	47380
RP11-429E	20	60292562	60294804	16	7	38134
PIK3C2A	11	17099277	17229530	177	15	51059
EMP2	16	10622279	10674555	202	40	46250
FAM159A	1	53099016	53135355	73	15	45353

GMFG	19	39818993	39833012	26	5	44926
CCDC83	11	85566144	85631064	189	15	51568
PACS1	11	65837834	66012218	258	13	49942
FSTL3	19	676392	683385	11	4	39957
PHF10	6	170104001	170124151	32	7	43216
PHKB	16	47495034	47735434	121	6	43521
ERGIC1	5	172261278	172379688	299	43	47707
CAPSL	5	35904397	35938881	102	13	51019
RP11-156E	1	245132652	245134390	3	1	43347
ASL	7	65540785	65558545	38	6	51741
CST6	11	65779312	65780976	3	1	52632
HYAL2	3	50355221	50360337	2	1	40075
SNURF	15	25200133	25223729	33	6	43046
ZNF581	19	56146825	56156988	26	7	45239
NDE1	16	15737124	15820210	175	20	44295
RPA2	1	28218035	28241257	47	4	50426
EIF4EBP1	8	37887859	37917883	21	2	43679
EIF4A2	3	186500994	186507689	14	6	48005
OR52H1	11	5565719	5566779	5	1	43915
APOL1	22	36649056	36663576	56	8	46856
CALD1	7	134429003	134655479	572	42	50253
DCAF5	14	69517598	69619867	152	17	48603
KCNA6	12	4918342	4960277	202	25	51254
OR2K2	9	114089763	114090800	2	1	51248
RNF166	16	88762903	88772829	47	15	40129
HAUS6	9	19053141	19103117	200	16	52839
GABRA5	15	27111510	27194354	78	15	39027
TKT	3	53258723	53290068	139	11	51507
RNF2	1	185014496	185071740	49	10	47851
RP11-544M	1	160967747	161008752	84	9	49561
SPG11	15	44854894	44955876	29	12	38574
QTRT1	19	10812106	10824113	20	4	51490
GDI2	10	5807186	5884095	154	20	49693
BTD	3	15642848	15687329	80	11	50866
TRPM3	9	73143979	74061820	2510	111	50822
NAALADL1	11	64812290	64826021	14	4	46424
RSPO1	1	38076951	38100595	63	11	52009
QPRT	16	29674600	29710020	39	9	46518
GLP1R	6	39016574	39055519	162	21	50445
VPS37C	11	60897728	60929089	83	4	47761
CD34	1	208057594	208084747	82	14	49175
LIMCH1	4	41361624	41702061	708	49	48823
KCNQ4	1	41249684	41306124	165	35	49757
ADD3	10	111756126	111895323	163	16	46192
SHISA9	16	12995477	13334272	1273	88	48961
TGM5	15	43524793	43559055	46	5	47930
P2RX5-TAX	17	3566357	3599488	71	12	45054
TP53INP1	8	95938200	95961639	47	6	45723
AZU1	19	825097	832017	22	4	35326
TMEM59L	19	18718240	18731849	38	8	45712
OR4C5	11	48387037	48388017	2	1	43049

APLNR	11	57001051	57004709	8	3	50956
ARL8A	1	202102532	202113869	12	4	44077
HM13	20	30102231	30157370	90	4	47513
SPACA7	13	113030633	113089003	154	15	50615
DDX51	12	132621139	132628880	22	4	43040
TTL	2	113239731	113299316	100	11	51798
CARF	2	203776937	203851786	122	7	51222
DHX35	20	37590942	37668366	121	8	51900
LMBR1	7	156461646	156685924	685	25	52661
FAM89B	11	65339820	65341669	2	1	48329
TMEM70	8	74884672	74895018	34	4	49325
TNNI1	1	201373625	201398994	41	12	41520
SLTM	15	59171244	59225852	56	6	49411
LRIT2	10	85980254	85985345	18	5	47747
BTN2A2	6	26383324	26395102	34	6	49139
ARMC4	10	28064115	28287977	449	24	50166
PCDHGB7	5	140797427	140892546	217	27	48406
OTUD6B	8	92082424	92099323	21	4	49283
DGKI	7	137065783	137531838	627	46	46879
PIWIL2	8	22132810	22215076	166	9	46988
ALDH3A1	17	19641297	19652256	8	2	52041
NFS1	20	34255977	34287281	63	7	51779
MFSD4	1	205538013	205572046	114	18	49019
PANX1	11	93862094	93915138	105	12	51428
UBL3	13	30338508	30424821	188	12	52394
FAM180A	7	135413096	135433594	51	10	49096
TNFRSF10C	8	22993101	23021543	79	15	40166
CCDC42	17	8633252	8648537	47	7	50006
GAPDHS	19	36024314	36036218	28	8	50359
KLHL31	6	53512699	53530506	65	8	51436
GOPC	6	117639374	117923691	884	48	51605
CUL2	10	35297479	35379570	164	8	52813
EFEMP1	2	56093102	56151274	168	21	48077
RB1CC1	8	53535016	53658403	118	17	49485
TSPAN11	12	31079362	31149534	238	38	49445
CSMD1	8	2792875	4852494	14339	535	48417
HBG1	11	5269313	5271122	3	1	47042
NR5A2	1	199996730	200146552	451	51	50185
LHPP	10	126150403	126306457	760	48	50818
WT1	11	32409321	32457176	166	15	49916
MTF2	1	93544792	93604638	82	9	48464
UROD	1	45477819	45481247	5	2	51724
OR8J1	11	56127691	56128764	7	3	46469
CDK5R2	2	219824377	219826876	5	1	44536
RP1-66C13	17	26125832	26220391	165	16	49875
TRPV3	17	3413796	3461289	165	28	45738
LDHAL6B	15	59499042	59500705	13	3	53577
CLPTM1	19	45457842	45496599	90	10	48550
ADAD2	16	84224744	84230774	31	9	47059
SNX31	8	101585116	101675643	302	25	49760
PCDHGA11	5	140800762	140891835	210	26	48449

MED13L	12	116395711	116715143	436	25	48394
ZNF460	19	57791419	57804937	38	6	52144
HEATR2	7	766338	829190	163	10	51793
MTRNR2L2	5	79945819	79946855	3	1	54641
SERPINB4	18	61304493	61311532	3	1	48437
AC124890.	12	69186125	69187743	2	1	37604
EBF2	8	25699246	25902913	532	59	49277
PRRT4	7	127990379	128001739	22	7	36799
EGR4	2	73518058	73520833	2	1	39438
PNOC	8	28174503	28200872	81	7	47166
GGA2	16	23474863	23533316	92	7	44299
GOLGA8B	15	34817408	34880704	67	8	51206
PMM1	22	41972898	41985894	9	3	46081
CD82	11	44585977	44641913	190	33	50033
RP1-32I10.	22	44761431	44762164	6	3	42522
PCDHGA10	5	140792743	140892546	221	27	48387
IL36G	2	113730780	113743242	17	4	50512
HOXD11	2	176968944	176974722	11	3	45725
BAIAP2L1	7	97920963	98030380	205	7	51239
KCNK16	6	39282474	39290744	40	5	51523
CNOT6L	4	78634541	78740769	162	14	50424
SIRT4	12	120740119	120751052	23	4	51627
KCNA1	12	5019071	5040527	50	10	48401
TUBB8	10	92828	120103	38	7	41324
HRCT1	9	35906189	35907138	4	2	44298
ZNF593	1	26496362	26498551	10	3	49699
GNG2	14	52292913	52446060	498	54	47053
KIF18A	11	28042167	28129855	86	11	48084
EARS2	16	23533335	23569052	86	7	43902
CD3EAP	19	45909467	45914024	14	3	50139
RGS11	16	318300	325980	13	4	42779
IFNA17	9	21227242	21228221	4	1	55158
COMMD5	8	146066427	146079121	35	4	45801
PIK3R5	17	8782233	8869029	193	34	48738
GUF1	4	44680444	44702943	35	5	49352
CMSS1	3	99536678	99897447	389	20	50240
ZNF77	19	2933216	2944969	18	5	36327
SPHK1	17	74372665	74383941	37	13	45698
PEBP1	12	118573663	118583389	22	5	48951
EN1	2	119599747	119605254	7	3	49978
SUSD4	1	223394161	223537544	268	17	50554
MTMR7	8	17155539	17271037	511	35	50068
CTSW	11	65647280	65651212	7	3	45740
CLDN16	3	190040330	190129932	399	24	51237
RP13-672B	12	133264635	133291498	54	10	48749
LOXL2	8	23154702	23282841	578	35	51011
TDRD6	6	46655612	46672056	10	4	48234
NIM1K	5	43192173	43280952	165	27	47698
HAS2	8	122624356	122653630	63	6	51928
CXCR2	2	218990012	219001976	13	3	49705
DTHD1	4	36283244	36347378	193	31	49639

TMEM245	9	111777432	111882225	356	24	48010
ZNF706	8	102190106	102218421	38	6	45504
NPC1	18	21086148	21166862	98	7	50667
C22orf42	22	32544993	32555309	34	8	48092
POC5	5	74969949	75013313	132	11	51889
TBC1D26	17	15635561	15649476	15	3	42803
PLA2G12B	10	74694928	74714536	7	2	43405
KCNS2	8	99439250	99445076	3	2	47823
EZH2	7	148504475	148581413	119	14	50022
MFSD9	2	103332299	103353347	36	6	51465
LINC01100	3	159733811	159749210	48	6	47618
RP11-322L	14	87372122	87389099	50	7	50949
S100A1	1	153600402	153604513	7	3	45403
RTEL1	20	62289163	62328416	148	16	45959
AC069368	15	65134082	65223118	209	17	45854
AL135998	14	23286463	23291750	19	6	47633
FAT4	4	126237554	126414087	433	35	51769
NEURL1	10	105253736	105352309	240	32	50734
NFXL1	4	47849257	47916653	151	13	51395
SPIRE2	16	89884587	89937727	144	13	47082
GALT	9	34646642	34657110	15	5	51114
BTF3L4	1	52521797	52556388	37	5	46772
SCRG1	4	174305852	174327531	23	4	44191
BIRC3	11	102188215	102210134	21	5	48004
SYT12	11	66774249	66818334	33	11	45065
OOSP1	11	59705928	59712807	4	2	44942
TOX	8	59717977	60031767	688	56	49534
TOP1	20	39657458	39753127	125	19	48588
SLC5A8	12	101549271	101604185	114	12	48513
MAST2	1	46252659	46501796	435	11	52096
ASNA1	19	12847953	12859137	4	2	41480
BOLL	2	198591603	198651486	49	5	49860
CABLES2	20	60963688	60982341	81	10	44416
TCEA1	8	54879112	54935089	84	5	38766
KIAA0040	1	175126123	175162135	89	11	51331
RIOK2	5	96496571	96518964	62	11	49053
PDCD2L	19	34895289	34917073	44	7	48444
RUNDC3B	7	87256864	87461611	268	11	49207
PANK3	5	167975500	168006605	34	7	51456
MCC	5	112357796	112824527	1669	55	49384
PYDC2	3	191178952	191179245	1	1	55272
SIGLEC1	20	3667617	3687775	76	11	49258
SLC24A2	9	19507450	19786926	652	46	50232
HES6	2	239146908	239149303	8	3	46933
SEC24D	4	119643978	119759838	352	17	51419
RPL23A	17	27046411	27051377	3	2	47458
FAIM2	12	50260679	50298000	89	17	46825
SLC9A5	16	67271586	67306093	32	7	42726
LRRC20	10	72058729	72142382	283	26	51850
GPR55	2	231772033	231825781	109	17	45211
TMEM102	17	7338762	7340998	3	1	49963

TPGS1	19	507299	519654	24	7	37447
TRIM58	1	248020501	248041507	88	11	50812
NMB	15	85198360	85201794	11	4	48668
TRIB3	20	361261	378203	46	15	39096
ZNF493	19	21579921	21610375	87	8	50949
IL21	4	123533783	123542224	17	6	51350
POTEF	2	130831108	130886795	4	1	46342
CALU	7	128379346	128411861	71	6	49993
CDCP2	1	54598747	54619443	84	14	48850
RPN2	20	35806813	35870022	184	11	51849
SLC22A18A	11	2909010	2924970	44	13	47037
KLK9	19	51499274	51512837	30	5	48211
NLGN1	3	173114074	174004434	2059	111	48811
BCL7C	16	30844947	30906281	54	6	49018
MAPK8IP2	22	51039114	51052409	55	11	47380
C9orf170	9	89763559	89774471	39	7	50171
ZFPL1	11	64851695	64855870	2	1	46507
PRSS35	6	84222194	84235423	32	5	51418
C11orf86	11	66742748	66744475	2	1	49303
TRIM11	1	228581374	228594541	22	5	41527
YLPM1	14	75230069	75322244	140	11	52309
C15orf57	15	40820882	40857256	88	8	49687
DHRS4-AS1	14	24407940	24409196	3	1	46857
MRAP	21	33664124	33687095	41	10	47937
MICALL1	22	38301664	38338829	42	6	43187
NDUFC2-KC	11	77728017	77790911	221	16	52407
MGAT3	22	39853349	39888199	46	12	44082
NCKAP5	2	133429374	134326034	1967	143	50361
TNFSF13B	13	108903588	108960832	96	24	44878
MAML2	11	95709762	96076344	1061	110	50309
AC104841.	2	242167319	242168850	3	2	52611
GRAP	17	18923986	18950950	5	2	33332
PSMD14	2	162164549	162268228	135	13	50619
SLC30A6	2	32390933	32449448	102	10	51442
STUB1	16	730224	732870	4	2	46315
RASGRP3	2	33661391	33789817	380	55	47115
PCGF6	10	105062553	105110891	55	11	49335
LAT2	7	73613982	73644161	12	3	45843
C21orf2	21	45748827	45759285	19	6	40785
OR2T4	1	248524883	248525929	2	1	51296
GNPDA2	4	44684217	44728612	92	8	48806
ZSCAN30	18	32831032	32870196	65	11	40984
MAPK15	8	144798429	144804628	16	6	36590
AADA3L3	1	12776118	12788726	41	6	47170
RIMKLB	12	8834196	8935691	79	11	49021
AGRP	16	67516474	67517716	3	1	43501
CRIM1	2	36583069	36778278	474	43	49806
REV1	2	100016938	100106497	177	13	50340
ABHD17C	15	80972025	81047962	221	25	49960
OR10J5	1	159504793	159505842	2	1	46639
PNRC2	1	24285599	24289952	1	1	30349

EXOC2	6	485133	693117	604	40	49117
CDH23	10	73156691	73575702	1157	129	47552
DEPDC7	11	33037410	33055128	62	7	51236
RALA	7	39663082	39747723	154	20	49349
FAM135B	8	139142266	139509065	920	90	49359
S100A8	1	153362508	153363664	2	1	41340
FILIP1L	3	99548985	99833357	312	16	50534
PDZRN3	3	73431584	73674091	546	56	49848
OR5M9	11	56229945	56230877	7	1	50445
FGF21	19	49258816	49261587	9	4	38009
EEFSEC	3	127872297	128127485	431	16	49877
CBFB	16	67063019	67134961	68	6	46705
STAT6	12	57489191	57525922	54	11	49924
ATHL1	11	289135	296107	17	4	37333
CEP57	11	95523129	95565857	126	11	49037
BOD1	5	173034517	173043663	29	5	49863
HP	16	72088491	72094954	9	3	49013
PREP	6	105725440	105850959	302	21	49678
CTD-2207C	19	7445850	7535131	322	14	51806
SPINK4	9	33218363	33248565	95	7	48942
PCBP2	12	53835525	53874946	34	8	47942
COPZ1	12	54694986	54745633	40	5	49004
POLE	12	133200348	133263951	172	11	49167
C20orf24	20	35234137	35240960	7	3	47528
GNAI2	3	50263724	50296787	27	8	42497
C15orf27	15	76352178	76521462	390	40	49855
C7orf72	7	50135632	50199426	204	13	52154
POLR3F	20	18447771	18465287	45	8	48433
CD180	5	66478103	66492627	18	4	47364
LIG4	13	108859787	108870716	12	4	51313
FIBP	11	65651212	65656010	7	1	49268
TNRC6B	22	40440821	40731812	380	15	47810
NUTM1	15	34635516	34649938	33	9	46957
FOXN1	17	26833261	26865914	72	10	48947
RNF112	17	19314438	19320589	3	1	45265
FZD5	2	208627310	208634287	7	3	46055
RP11-15E11	17	58641908	58663984	3	2	41531
CCNB1IP1	14	20779527	20801471	61	10	50301
CCBL2	1	89401456	89458636	80	6	51613
TMC3	15	81623558	81666554	127	12	49518
IFNA4	9	21186617	21187598	2	1	55275
PAF1	19	39876492	39881835	8	2	44452
RNF113B	13	98828039	98829519	3	1	41628
SCAMP5	15	75249560	75313837	137	13	48381
AC008060	7	155174771	155189051	95	17	45044
ITGB3	17	45331212	45421658	252	21	49969
ITGB3	17	45331263	45421658	252	21	49969
CLSTN3	12	7282294	7311541	49	7	51535
FBXO40	3	121311966	121349139	112	22	49553
C12orf23	12	107349497	107372556	40	9	50201
NAA16	13	41885341	41951166	138	9	49284

OR10D3	11	124055923	124056952	6	2	49824
ERRFI1	1	8064464	8086368	29	5	47371
E2F6	2	11584501	11606297	59	4	39300
C1orf112	1	169631245	169823221	796	27	51846
IRX6	16	55357672	55364672	30	6	50875
TMTC3	12	88536073	88593664	74	4	47802
OR7C1	19	14909958	14911023	6	2	47105
PRSS16	6	27215480	27224403	16	5	51497
PATE4	11	125703211	125709964	31	6	52860
CTC-786C1	16	85204882	85218969	56	13	48824
PRMT5	14	23389720	23398794	14	4	47694
MBP	18	74690783	74845639	636	91	47942
CPNE7	16	89642176	89663654	63	13	45811
TMPRSS6	22	37461476	37505603	128	14	50194
KRAS	12	25357723	25403870	138	14	51308
Sep-04	17	56597611	56618179	32	7	49824
HDAC9	7	18126572	19042039	1964	139	46688
OASL	12	121458095	121477045	47	13	50227
NPY5R	4	164265091	164273086	19	4	49135
ESD	13	47345391	47371367	37	6	47955
TMSB10	2	85132749	85133795	2	1	55273
ROPN1	3	123687368	123711025	22	5	46670
GPR89A	1	145764411	145827103	1	1	31783
LL22NC03	22	47857048	47882860	62	7	49121
CSNK1G3	5	122847793	122952739	152	13	51918
PDP1	8	94870035	94938294	125	10	52121
ZNF771	16	30418618	30440920	17	5	47712
FAM195B	17	79780287	79791178	16	1	43211
ATP2A2	12	110718561	110788898	72	13	48725
STYK1	12	10771538	10826917	129	9	51590
SEC62	3	169684423	169716161	45	3	48898
CIDEC	3	9908398	9921938	31	6	49964
CDX2	13	28536274	28545276	16	3	44873
DDX56	7	44605016	44614650	30	6	47198
C10orf40	10	61715188	61720671	13	3	47998
SPAG4	20	34203814	34208971	5	2	44466
C2orf71	2	29283842	29297127	60	8	48077
TARS	5	33440802	33469644	79	11	49794
EEF2	19	3976054	3985467	15	2	47644
SPATC1L	21	47581062	47604390	146	12	49112
SPRR2B	1	153042700	153113927	144	17	47772
PCDHGA12	5	140810185	140892546	191	25	48550
VWA3A	16	22103859	22168287	54	8	46050
ZNF580	19	56146382	56154835	24	6	45166
DHX58	17	40253422	40264751	27	4	46139
LMNB1	5	126112315	126172712	163	20	50721
TTC12	11	113185251	113254266	120	16	47447
FIS1	7	100882739	100895597	38	4	51936
ZC3H7A	16	11844442	11891123	93	13	49311
TMEM123	11	102267063	102341115	125	13	49749
HOXD9	2	176987088	176989853	5	2	39927

TRAPPC2P1	19	57874879	57876721	2	1	43177
DDC8	17	76866992	76899299	135	16	51676
SLC18A2	10	119000604	119038941	92	17	45172
AC110084.	2	27998851	28009186	6	2	45593
GDPD1	17	57297828	57353328	83	6	49044
UNC119	17	26873725	26879686	1	1	49387
TMEM52	1	1849029	1850712	5	2	47914
COBL	7	51083909	51384515	527	31	50737
CD160	1	145695798	145715614	19	2	50603
MMP21	10	127455022	127464390	7	3	48117
CCDC96	4	7042579	7044728	3	2	46629
KRTAP21-2	21	32119112	32119551	1	1	39804
CMTM7	3	32433163	32524559	302	31	51421
ERVV-1	19	53517174	53519375	2	1	43371
OSTN	3	190917030	190983404	182	21	49647
MMP9	20	44637547	44645200	18	4	48198
IL1RL2	2	102803433	102856462	220	13	52043
CTR9	11	10772534	10801290	45	10	44946
ZNF625	19	12251032	12267546	20	3	49078
FGF17	8	21899909	21906320	13	5	44444
TCF12	15	57210821	57591479	722	18	50087
OR4F15	15	102358366	102359350	1	1	49767
ZNF141	4	331603	378653	105	7	50414
OCM2	7	97613996	97620481	25	2	52021
OR13C3	9	107298030	107299137	3	1	52655
FSIP1	15	39892232	40075031	557	20	49730
GPC6	13	93879095	95059655	2903	156	49541
LETMD1	12	51441745	51454207	31	5	49489
CLEC4M	19	7828035	7834491	29	6	48571
CENPP	9	95087766	95382815	630	20	48157
C9orf3	9	97488983	97849441	607	19	48764
KRTAP4-7	17	39240459	39241396	4	1	52370
PPIP5K2	5	102455853	102548500	162	11	41123
MRM1	17	34958001	34965407	12	3	44945
GDF6	8	97154562	97173020	26	7	47616
CATSPER4	1	26517052	26529459	58	9	50795
DACT3	19	47150869	47164395	17	4	45809
ADAM8	10	135075907	135090372	40	4	39455
TMED7-TIC	5	114914339	114961858	71	10	50617
TICAM2	5	114914339	114961876	71	10	50617
CREM	10	35415719	35501886	158	6	53060
IFI27L2	14	94594116	94596590	4	2	42878
C9orf139	9	139921916	139931234	18	3	41243
ALDH9A1	1	165631453	165668100	133	14	50141
PLA2G4B	15	42120283	42140345	64	9	46431
JMJD7-PLA	15	42120293	42140353	64	9	46431
MED13	17	60019966	60142643	107	9	46724
KIAA1024	15	79724858	79764632	114	18	50170
SOHLH1	9	138585253	138591374	30	5	46874
ZNF584	19	58912871	58929694	50	4	53421
TOP1MT	8	144386554	144442149	159	13	49293

DFNA5	7	24737972	24809244	251	23	50691
NDUFS1	2	206979541	207024327	109	10	50846
NR4A1	12	52416616	52453291	71	16	42692
FCHO1	19	17858527	17899377	133	18	45483
ACSS1	20	24986868	25039616	128	20	48547
RALY	20	32581452	32696114	123	11	48174
SIVA1	14	105219437	105234831	31	4	49673
KRR1	12	75890684	75905416	36	6	52204
PLEKHO1	1	150121373	150136916	24	3	43112
KLHDC9	1	161068151	161070136	5	3	42562
LRRC8B	1	89990395	90063423	170	13	50177
EIF1AD	11	65764016	65769647	21	4	48948
CRIPT	2	46843555	46852881	18	5	49061
ZCCHC14	16	87439852	87525651	303	13	43562
C19orf80	19	11348178	11352619	6	2	44905
PAPPA	9	118916083	119164601	312	44	47578
CBX8	17	77765931	77775482	13	4	42929
ABHD1	2	27346682	27353680	8	2	49453
SCNN1B	16	23289552	23392620	194	24	45724
SMOC2	6	168841831	169073984	756	64	50224
RUVBL1	3	127783621	127872757	170	9	53422
IL13	5	131991955	131996802	7	2	50277
MS4A6A	11	59939081	59952139	25	5	46562
ACOX2	3	58490863	58523046	53	12	48875
OR14A2	1	247886401	247887345	4	2	47953
CITED4	1	41326729	41328018	6	2	40056
MGC4294	20	57209828	57210772	4	2	43552
ZMYND12	1	42896000	42921938	84	8	53283
PRDM2	1	14026693	14151574	309	22	47073
FMO2	1	171154347	171181822	144	14	50390
C7orf33	7	148287657	148312952	59	12	44238
SLC50A1	1	155107820	155111329	3	2	40289
FAM120AC	9	96208776	96215874	19	5	48055
PPAPDC3	9	134165081	134184649	48	4	44870
RPL3	22	39708887	39716394	26	5	49908
FUT7	9	139924626	139927462	7	2	40257
ARHGEF18	19	7459999	7537363	304	13	52052
AP2M1	3	183892477	183901879	20	6	47784
OR1J1	9	125239220	125240235	5	2	39778
IRX1	5	3596168	3601517	14	4	50869
CLEC12B	12	10163226	10171218	20	7	50380
BEAN1	16	66461200	66527432	122	19	48702
ASPM	1	197053258	197115824	87	7	46197
CNN2	19	1026298	1039068	66	12	40929
AC011997.	2	198557830	198639547	77	7	49816
KDM4C	9	6720863	7175648	1875	98	50408
TRIM48	11	55029658	55038595	20	6	48993
ADHFE1	8	67342420	67383836	117	14	51674
RP11-867G	11	66115421	66132275	26	3	50551
PEBP4	8	22570769	22857513	795	82	47932
IMMP2L	7	110303110	111202573	1522	64	48525

ZNF134	19	58125601	58134724	22	5	47012
SMPDL3A	6	123110315	123130865	52	11	49222
SLC22A7	6	43263432	43273276	13	4	48028
FAM105A	5	14581884	14615116	39	8	47808
MRPS5	2	95752952	95815179	23	5	46044
UBAC1	9	138824815	138853226	80	8	46841
SVOP	12	109304658	109459045	259	22	47882
PPM1F	22	22273793	22307209	74	9	50838
YARS	1	33240840	33283754	63	8	50960
LIMD2	17	61773262	61778532	2	1	49907
LARS	5	145492601	145562223	231	5	46173
LCOR	10	98592017	98740800	147	8	45387
AC005549.	17	32581900	32582306	1	1	56632
OR10A6	11	7949180	7950209	6	2	49438
ATP6V0D1	16	67471917	67515140	44	9	43313
CNRIP1	2	68511303	68547183	78	18	48772
ATOH1	4	94750042	94751221	1	1	33575
MAZ	16	29817427	29823649	1	1	44655
IER3IP1	18	44681413	44702745	55	6	51648
STPG1	1	24683489	24743424	147	15	50537
CLCA2	1	86889769	86922241	159	18	52351
SAYSD1	6	39071840	39082965	25	8	46613
KCNH6	17	61600695	61626338	43	8	45918
REG3A	2	79384132	79386879	4	2	44303
ZNF106	15	42705021	42783321	109	10	50328
IRF1	5	131817301	131826490	35	2	51830
HHATL	3	42734155	42744319	19	6	47987
TYRO3	15	41849873	41871536	30	6	50588
PDLIM1	10	96997329	97050781	159	20	51121
SOX14	3	137483579	137484396	1	1	39517
B4GALT1	9	33104080	33167354	208	21	50544
RBCK1	20	388142	411610	62	12	46781
SEC61A1	3	127770484	127790526	44	3	51760
LRRC58	3	120043356	120068186	67	9	50540
NRBP1	2	27650657	27665126	15	2	44032
RNF130	5	179338651	179499118	349	27	49492
NCF2	1	183524698	183560011	77	15	48829
KLHL14	18	30252634	30353025	195	6	52512
RSPO2	8	108911544	109095913	394	33	49302
TMEM144	4	159122756	159176563	54	9	45688
TIMP2	17	76849059	76921469	239	25	51913
FBN3	19	8130286	8214730	357	38	47839
LSP1	11	1874200	1913497	155	23	43470
GPR151	5	145892666	145895753	4	2	51527
MBD2	18	51679079	51751158	110	13	50853
APOBEC3H	22	39493229	39500072	49	5	48906
TMA16	4	164415594	164441691	38	4	52307
SPRYD7	13	50486842	50510626	39	6	47269
TMEM33	4	41937137	41962589	66	6	45211
ADAM28	8	24151553	24216531	206	10	52013
RP11-162A	18	74506688	74534251	86	13	50600

CLIC5	6	45868045	46048132	502	51	49468
FBXL19	16	30934376	30960104	23	3	45846
HSPA1L	6	31777396	31783437	17	8	46842
FNDC5	1	33327869	33338083	10	3	47059
LEFTY2	1	226124298	226129189	6	3	52576
ULK3	15	75128457	75135687	14	3	46827
CALHM3	10	105232561	105238997	8	2	49130
LHX3	9	139088096	139096955	15	4	48213
FGA	4	155504278	155511918	8	4	48781
FTH1	11	61727190	61735132	15	6	47067
DENR	12	123237321	123255611	34	4	48690
AC016757.	2	239133193	239140318	36	6	47350
AKR1B15	7	134233888	134264627	78	10	52785
MRC1L1	10	17851362	17953178	2	1	32920
CYP27A1	2	219646472	219680016	53	3	50016
C21orf54	21	34537776	34542541	13	5	44547
ZNF655	7	99156029	99174076	24	6	44823
FAR2	12	29302036	29493913	533	25	51326
SLC38A4	12	47158546	47226191	185	26	48293
C22orf43	22	23950639	23974508	46	8	47498
LYNX1	8	143845752	143859640	38	9	47840
B3GALT4	6	33244917	33252609	10	4	50094
SNRPD3	22	24951471	25005947	58	7	46658
FRMD4B	3	69219141	69591734	1083	72	50488
CDK18	1	205473723	205501921	110	28	48736
PHF1	6	33378176	33384230	10	4	48337
CDC26	9	116018115	116037869	53	10	53126
DSG3	18	29027758	29058665	112	13	47215
NIFK	2	122484521	122494499	23	4	39606
IGFLR1	19	36230058	36233354	8	3	49081
FAM3B	21	42676139	42729358	152	21	49826
STAG3	7	99775186	99819111	96	7	51572
CTD-2140B	12	133707570	133778955	161	9	51115
MUC1	1	155158300	155162707	4	2	43303
STK38L	12	27396901	27478892	234	29	50612
GPR153	1	6307406	6321035	30	2	48838
OR1L1	9	125423845	125424927	1	1	37076
TXNIP	1	145438469	145442635	1	1	40913
SEC22C	3	42589461	42642572	119	13	46329
TPSG1	16	1271651	1275257	16	4	41777
ENGASE	17	77071021	77084681	59	9	47107
JPH2	20	42740335	42816218	268	32	51636
AC012123.	18	30349758	30354376	7	3	44777
CDH8	16	61681146	62070939	729	49	50098
DLEU2L	1	64014588	64015405	2	1	53695
GLMN	1	92711959	92764544	34	4	47958
C7orf62	7	88423420	88425035	6	2	46421
TCN2	22	31002825	31023265	97	15	47786
MRPL33	2	27994584	28210954	278	10	47314
AEN	15	89164527	89175513	49	7	49003
PSMB7	9	127115745	127177723	74	10	44400

ATXN7L3B	12	74931551	74935223	7	3	47923
AP005482.	18	12658042	12663470	18	3	53804
UFSP2	4	186320694	186347139	69	11	49780
HAUS4	14	23415437	23426370	15	2	47082
CATSPER2	15	43920701	43960316	45	6	48055
SLURP1	8	143822362	143823829	1	1	40211
SERINC1	6	122764499	122792967	63	10	51852
OSBPL11	3	125247702	125313934	225	16	51982
RNF13	3	149530495	149679926	251	20	49524
CCR1	3	46243200	46249887	10	1	53008
HINT2	9	35812957	35815351	1	1	47796
HSPA4L	4	128702976	128761888	39	12	44826
DHRS7C	17	9674751	9694614	66	8	50273
CARD8	19	48684027	48759203	235	24	50069
ALK	2	29415640	30144432	2301	125	48189
RMND5A	2	86947296	87005164	54	5	48035
TMEM244	6	130152389	130182692	178	17	50990
TMEM126A	11	85359011	85367591	14	3	51518
ECEL1	2	233344537	233352538	19	8	46491
MAPK1	22	22108789	22221970	226	20	48585
CRY1	12	107385142	107487607	211	16	48718
PEG3	19	57321445	57352096	40	7	49440
APEH	3	49711435	49721396	6	2	47463
NKIRAS2	17	40163400	40177659	13	3	43542
CTD-2547L	14	91709103	91717426	32	4	48681
CD19	16	28943260	28950667	4	2	41346
MUC13	3	124624289	124672663	148	26	45902
HOMEZ	14	23741666	23768656	31	7	46467
AC003002.1	19	57901252	57931362	55	11	49707
TMPRSS11L	4	69313167	69363322	145	11	35563
TMEM239	20	2795614	2798712	5	3	44293
HOXC8	12	54402832	54407570	6	2	46474
KRTAP10-4	21	45993606	45994987	2	1	36540
FFAR3	19	35849362	35851387	1	1	41813
RGCC	13	42031695	42045018	32	8	47906
KLLN	10	89618918	89623194	1	1	55623
LYPD2	8	143831568	143833952	8	1	53438
ACP5	19	11685475	11689823	10	3	47794
STARD7	2	96850597	96874563	21	4	49315
IRF2BPL	14	77490888	77495034	4	2	47821
DDX27	20	47835884	47860614	73	9	47204
TAF1D	11	93463114	93517557	114	6	48773
MCHR1	22	41074754	41078818	7	2	41602
CCNF	16	2479395	2508855	50	2	46204
TTLL11	9	124584207	124855885	808	40	49789
TNNI3	19	55663137	55669141	15	4	40934
HIST1H2BN	6	27806323	27823487	27	5	49055
HOGA1	10	99344080	99372559	70	15	48372
DNMT3A	2	25455845	25565459	173	32	50950
RXRG	1	165370159	165414433	177	23	50764
MSANTD1	4	3246096	3273465	85	8	50635

NUP98	11	3692313	3819022	316	18	51366
SSBP3-AS1	1	54703710	54704736	5	3	42677
MRPS23	17	55916842	55927417	19	6	52850
HTR3C	3	183770835	183778459	22	6	49562
DUSP5	10	112257596	112271302	24	5	48871
WDR59	16	74907468	75034071	354	39	48060
C1orf141	1	67557848	67697536	414	28	51384
SNRNP25	16	103010	107669	10	2	44201
FAHD2A	2	96068469	96082364	5	3	43874
KRT28	17	38948455	38956211	21	6	49766
LRRC9	14	60386431	60530277	219	10	46331
MIER1	1	67390578	67454302	131	12	48226
RP11-383H	8	72740402	73030628	1032	63	51801
CCL13	17	32683471	32685629	2	1	52995
SIGLEC8	19	51954101	51961710	15	4	45268
SLC2A1	1	43391052	43424530	97	11	51272
THYN1	11	134118173	134123264	5	2	46085
DRAXIN	1	11751786	11785914	84	15	45899
MYL3	3	46899362	46923659	43	9	44875
CGNL1	15	57668165	57842925	651	64	49359
TMEM40	3	12775024	12810956	87	13	49795
AL049840.1	14	104177607	104179149	1	1	54445
ZNF10	12	133707161	133736051	63	6	50181
ZNF268	12	133707570	133783698	175	10	51254
LAIR2	19	55009100	55021897	61	16	41460
PRRT1	6	32116136	32122150	6	3	48574
GIGYF1	7	100277130	100287071	20	7	45827
C2CD2	21	43305221	43373999	243	51	46605
ORMDL3	17	38077294	38083854	10	4	47847
NMNAT1	1	10003486	10045559	63	8	47370
WDR81	17	1619817	1641893	53	8	46183
SMAP1	6	71377479	71571718	337	19	48703
DMRTC2	19	42348806	42356401	7	3	42941
KCNK10	14	88649113	88793251	455	52	48780
MTHFR	1	11845780	11866977	76	10	51317
NEUROD4	12	55413729	55423798	10	2	48549
ANXA4	2	69871557	70053596	323	21	48998
ISM1	20	13202418	13281298	302	39	48681
BMP7	20	55743804	55841685	292	22	49734
RPUSD1	16	834974	838397	2	1	32766
VTCN1	1	117686209	117753556	149	17	49488
ZBTB40	1	22778344	22857650	102	9	46100
BAZ1A	14	35221937	35344853	341	20	50655
LRRC26	9	140063210	140064503	2	1	33587
SLC36A1	5	150816607	150871942	151	16	51576
UBE2D1	10	60094735	60130513	59	10	46698
WIPI1	17	66417089	66453654	96	17	50730
DND1	5	140050379	140053171	1	1	53670
PSMD1	2	231921578	232037541	159	15	48375
FCF1	14	75179847	75203394	15	3	50645
B4GALT2	1	44444615	44456840	17	4	45248

AL360004.:	9	132902889	132906498	8	2	52132
SSTR5	16	1122756	1131454	43	9	38240
SNRPG	2	70508494	70520903	20	3	51239
NR2C1	12	95414005	95467479	125	20	50005
EWSR1	22	29663998	29696515	41	11	48593
KDM5B	1	202696526	202778598	185	17	47115
TMEM91	19	41856816	41889988	62	8	47382
TEX35	1	178482212	178517734	79	9	50457
PDLIM3	4	186422851	186456766	44	3	43703
ROBO2	3	75955846	77699115	4345	196	49622
RP1L1	8	10463859	10569697	270	34	46259
UNK	17	73780681	73821886	54	6	47064
SFR1	10	105881816	105886143	11	2	48380
MTA1	14	105886159	105937066	1	1	33785
CWC27	5	64064757	64314590	429	20	52332
C9orf41	9	77595936	77643339	78	11	50704
ARHGEF16	1	3370990	3397677	76	7	42915
MEIS3	19	47906381	47922780	15	4	38725
PALM3	19	14164177	14169971	4	2	37179
HPCAL4	1	40144320	40157361	71	12	52234
ADAP2	17	29233362	29286340	43	6	47846
LAPTM4A	2	20232411	20251789	40	7	50971
EVA1B	1	36787632	36789755	3	1	36490
SLC30A2	1	26363743	26372624	16	3	46722
AKR1C3	10	5077546	5149878	332	35	50081
RAB26	16	2190804	2204166	6	2	34353
VPS52	6	33218049	33239824	50	6	42686
NELFA	4	1984441	2043630	67	7	43766
CALCA	11	14988214	14993900	4	2	45113
LMTK2	7	97736197	97838945	161	19	46370
CCR3	3	46205096	46308197	225	12	52236
ADCY5	3	123001143	123168605	298	21	46654
DPP10	2	115199876	116603328	3111	115	50008
SBSPON	8	73976775	74036323	173	17	49765
HNF1A	12	121416346	121440315	90	15	49791
TFAP2A	6	10393419	10419892	37	8	45769
BEST4	1	45249257	45253377	2	1	55305
ABCD2	12	39943835	40013553	127	16	48552
SLC38A8	16	84043272	84076241	281	40	47370
GCNT7	20	55066548	55100981	64	5	51641
GYPC	2	127413509	127454246	152	27	48077
SCEL	13	78109809	78219398	257	21	48066
CHMP6	17	78965398	78983317	66	10	46221
ABCA5	17	67240452	67323385	150	14	48282
LCE1F	1	152748848	152749445	2	1	50682
SNCB	5	176047085	176057530	8	2	46707
CPNE3	8	87497059	87573726	210	20	50315
RPTOR	17	78518619	78940171	1533	60	50991
ATP13A4	3	193119866	193310900	422	40	51323
C6orf100	6	28911654	28912314	3	2	48942
KIAA1524	3	108268716	108308491	50	10	51961

PATL2	15	44957930	45003514	20	7	36723
PATE2	11	125646008	125648714	11	3	50513
IFI44L	1	79085607	79111830	53	11	45469
ZNFX1	20	47854483	47894963	127	12	46958
ZNF286A	17	15602891	15640874	37	8	40770
RP11-379H	15	83209620	83231124	35	8	49300
CCNC	6	99990256	100016849	67	10	52196
IL37	2	113670548	113676459	39	3	52731
ARL4C	2	235401685	235405697	6	2	48104
MYBL1	8	67474410	67526482	50	3	40097
MATK	19	3777971	3802127	34	9	38491
MYF5	12	81110691	81113452	4	2	46054
C10orf82	10	118423207	118429775	12	4	47370
AL133262.1	6	44400472	44400720	1	1	40579
MYH15	3	108099216	108248169	326	29	48622
SRD5A3	4	56212276	56239263	71	11	51203
RIPK3	14	24805227	24809251	15	2	48082
NOXO1	16	2028918	2034193	28	5	48376
PDCD1	2	242792033	242801060	6	2	40152
NCR2	6	41303393	41318625	61	8	48923
KCNE2	21	35736323	35743688	22	5	40784
MORF4L1	15	79102829	79190475	301	15	49020
AKT1	14	105235686	105262088	38	8	41642
SH2D4A	8	19171128	19253729	247	35	48732
RNF25	2	219528587	219537134	19	2	46874
TK2	16	66541906	66586447	85	4	48929
MTHFD2	2	74425689	74444692	25	5	50052
C1orf123	1	53679771	53686289	10	2	44797
CCDC159	19	11455360	11465620	10	2	44576
DKKL1	19	49865040	49878373	41	3	54970
DYNC1L1	3	32567463	32612366	77	11	50843
SUPT5H	19	39926796	39967310	97	9	51283
CDC14A	1	100810584	100985833	195	14	48175
RHOJ	14	63670832	63759937	199	17	49667
ZNF326	1	90460671	90501090	31	8	42109
CTC-534A2	5	64920592	64926718	16	4	49817
UGT2A3	4	69794181	69817509	64	4	43426
HDAC1	1	32757687	32799236	10	5	36266
DTX1	12	113494514	113535833	120	20	45233
TRIM16L	17	18601311	18639431	46	11	45945
AC009365.1	7	132333553	132413528	167	22	49344
HIRA	22	19318221	19435224	196	14	45799
ZNF432	19	52534632	52598991	175	12	49720
TUSC5	17	1182957	1204281	94	14	46831
FOLH1	11	49168187	49230222	173	14	50317
STAB1	3	52529354	52558511	45	11	44321
C2orf48	2	10281509	10351851	252	25	48543
COLGALT2	1	183898796	184006863	324	27	49552
WRN	8	30891317	31031285	253	18	51147
SNRNP40	1	31732417	31769662	81	4	52213
MSMO1	4	166248775	166264312	55	10	51826

CPA4	7	129932974	129964020	86	12	49610
SEMA3C	7	80371854	80551675	296	33	49265
TMEM260	14	56955072	57117324	475	44	49092
DNAH17-A'	17	76494911	76499138	28	7	50121
WISP2	20	43343485	43357150	18	6	45375
SYCE1L	16	77233294	77247112	66	10	51033
FGL1	8	17721889	17767874	306	15	46720
CTB-60B18	19	49526210	49540152	31	6	38713
GPR139	16	20042807	20085239	156	19	51690
RTN1	14	60062694	60337684	456	22	50062
FAM43B	1	20878932	20881512	3	1	56398
RHOF	12	122215664	122241309	59	7	49286
ZNF394	7	99084142	99097947	12	3	45049
IL18R1	2	102927989	103015218	317	17	51521
TRAFD1	12	112563305	112591407	17	3	47703
VASP	19	46009837	46030241	51	11	44938
NAAA	4	76831809	76862204	126	12	50295
FEM1B	15	68570141	68588203	26	5	46172
NUBP1	16	10837643	10863208	57	8	49904
SIGLECL1	19	51749603	51772584	60	8	46966
MAN1C1	1	25943959	26112698	215	19	48914
TRPC4	13	38210773	38444562	683	54	50925
CDIP1	16	4560676	4588829	55	5	48248
RHPN1	8	144451057	144466390	36	6	49044
CD27	12	6554033	6560884	13	5	48674
GUSB	7	65425671	65447301	46	8	48983
POC1A	3	52109269	52188706	78	8	43837
JAKMIP2	5	146967990	147162338	392	21	47952
NDUFAF1	15	41679551	41694717	19	4	51029
ELOVL7	5	60047618	60140216	203	21	49357
MITD1	2	99777890	99797521	37	5	44003
MRPL37	1	54649714	54691137	87	16	51142
ANAPC13	3	134196548	134205558	17	2	51859
CNDP2	18	72163051	72188366	83	12	49461
FPGT	1	74663896	74699770	69	5	48818
TRIB2	2	12857015	12882860	58	10	48805
ETV5	3	185764097	185828107	91	11	45258
UTP15	5	72861268	72877794	36	4	49777
HNRNPAB	5	177631508	177638164	13	5	49679
DOCK6	19	11309971	11373157	120	15	47125
COLGALT1	19	17666403	17693971	66	12	45017
COLCA1	11	111164114	111175770	34	5	50955
FAM183B	7	38724946	38726637	8	4	48959
ZNF469	16	88493879	88507165	18	6	35126
POLD3	11	74204896	74380162	496	30	50425
C12orf39	12	21679241	21690311	31	6	47567
CRB3	19	6463788	6467232	5	2	40372
MLYCD	16	83932731	83949787	84	7	52890
GREB1	2	11674242	11782914	282	32	45943
NABP2	12	56615799	56623638	7	3	40797
TMEM233	12	120031264	120079363	123	8	51981

TMEM163	2	135213330	135476570	628	40	48758
FRA10AC1	10	95427640	95462329	81	7	49929
KRTAP11-1	21	32252966	32253874	2	1	51315
NAA35	9	88556061	88637213	56	10	46449
F3	1	94994781	95007356	21	5	50501
MAT2B	5	162930120	162946342	35	7	50983
ADPRH	3	119298115	119308792	20	7	46564
HOOK1	1	60280458	60342050	99	12	49552
ARNT	1	150782181	150849244	68	8	49879
GEMIN2	14	39583427	39606177	62	12	51186
CRYGN	7	151125921	151137899	26	7	45714
RAB14	9	123940415	123985292	76	12	49879
UBOX5	20	3088219	3140842	104	11	45621
BMPR1A	10	88516407	88692595	356	19	48862
ATP6V1H	8	54628117	54756118	111	5	40319
OTOA	16	21689835	21772050	79	13	50842
GPR1	2	207040040	207082771	103	14	52037
FBXW4	10	103370423	103455052	98	11	52679
SLC9A2	2	103236166	103327777	208	29	47662
UBE2V1	20	48697661	48732496	59	7	50518
FCGR3A	1	161511549	161600917	99	14	41003
CYBRD1	2	172378757	172414643	99	15	52880
PNPLA6	19	7598890	7626650	109	14	48970
RTP3	3	46538981	46542439	10	2	47219
TMEM141	9	139685807	139687709	6	2	50425
LGALS9	17	25956824	25976586	42	4	52308
MMP20	11	102447566	102496063	200	18	53242
TRAF1	9	123664671	123691451	74	6	50730
PRND	20	4702556	4709106	22	6	40519
TMEM175	4	926175	952444	63	13	46988
RNF4	4	2463947	2627047	311	26	49048
ZNF217	20	52183604	52226446	67	17	46392
EDDM3B	14	21236586	21239107	22	5	47957
CNTLN	9	17134980	17503921	1104	30	50732
SCCPDH	1	246887349	246931439	117	13	49427
LIMK2	22	31608225	31676066	95	14	45100
NOTO	2	73429386	73439641	28	5	52457
THBS4	5	79287134	79379110	185	14	51866
C3orf35	3	37427760	37476988	78	12	49657
WNK1	12	861759	1020618	281	17	50471
TMEM127	2	96914254	96931732	16	6	45286
CGB2	19	49535169	49536495	1	1	43275
GNS	12	65107225	65153227	37	4	48679
SH3YL1	2	217730	266398	89	9	52324
KDM3A	2	86667770	86719839	94	12	49591
MAP4K5	14	50885219	51027844	192	18	46150
POU2F1	1	167190066	167396582	218	20	44497
TBX3	12	115108059	115121969	22	6	44151
MOB3C	1	47073387	47082563	15	2	51940
SERPINB3	18	61322431	61329197	9	3	49154
GOLGA4	3	37284668	37408242	204	11	48814

NBL1	1	19967048	19984945	50	14	45541
DNAJB8	3	128181282	128186091	21	6	45115
TEFM	17	29224354	29233838	18	2	50956
PFDN2	1	161070346	161087901	32	6	49296
SLFN11	17	33677324	33700720	51	12	47179
TGFBR1	9	101866320	101916474	62	5	49246
LLGL1	17	18128901	18148189	37	5	49403
EP400NL	12	132568828	132613029	71	6	46194
MAML3	4	140637907	141075338	934	90	48231
TMEM235	17	76227391	76237068	32	8	45866
ZNF385C	17	40177594	40217383	49	6	45885
KITLG	12	88886570	88974628	159	7	49265
ZNF304	19	57862675	57871266	27	9	49631
RAB32	6	146864829	146876101	12	2	46373
AL590714.1	1	161190160	161192296	9	3	52878
CCDC169	13	36801182	36871977	297	7	54294
SCRT1	8	145554228	145559943	3	2	42967
SLC2A3	12	8071826	8088871	22	4	45762
CATSPERB	14	92047040	92247051	587	52	49759
NR3C1	5	142657496	142815077	195	21	50267
ZFPM2	8	106330920	106816760	961	85	49913
PROSER2	10	11865338	11914276	126	18	51808
EPC2	2	149402009	149545130	274	10	50279
NR2F1	5	92919043	92930321	5	1	43772
HMOX2	16	4524691	4560348	97	7	46554
GPC1	2	241375088	241407493	140	29	46738
MRPS34	16	1821891	1823156	2	1	44107
UBE2V2	8	48920960	48977268	25	6	44808
RTF1	15	41700606	41775761	101	10	50161
OSBPL9	1	52042851	52254889	163	18	42134
C2CD4D	1	151810295	151813033	3	2	45093
IFNA1	9	21440440	21441315	4	2	50346
IKBIP	12	99007183	99038891	72	14	50222
PMAIP1	18	57567180	57571538	7	3	51236
PRSS54	16	58313901	58328951	67	5	51343
CNKSR3	6	154708638	154831793	444	57	49799
GPIHBP1	8	144295068	144299044	15	5	47309
ADAMTS15	11	130318869	130346532	56	12	46747
OR10R2	1	158449668	158450675	5	2	47075
ERLIN2	8	37594117	37616619	3	2	40546
PRC1	15	91509270	91538859	93	10	47424
ERICH1	8	564746	688106	616	32	50150
ARHGEF3	3	56761446	57113357	942	86	50815
C16orf86	16	67700719	67702661	1	1	54014
DMTF1	7	86781677	86825653	121	8	49153
RNF19B	1	33402046	33430286	47	6	50017
UBAP1L	15	65385338	65407535	8	3	43128
GTF2IRD2	7	74210483	74267847	2	1	46214
THOP1	19	2785458	2813599	35	2	42552
RBAK	7	5085452	5109119	81	11	52003
IRF8	16	85932409	85956215	79	11	49728

LYPLA2	1	24117460	24122029	3	1	42717
TTC21B	2	166713985	166810353	182	20	50649
NCAPG2	7	158424003	158497520	166	11	50136
MYH13	17	10201401	10276447	227	26	49637
TRIM4	7	99474581	99517223	73	8	49680
GOLGA7	8	41347915	41368499	60	11	50992
ELL3	15	44064798	44069741	4	1	45919
ICT1	17	73008765	73017356	26	6	48434
PCP4	21	41239243	41301322	261	40	49117
CEP70	3	138213186	138313380	123	10	45046
TOX4	14	21944756	21967319	53	6	44318
OR5H2	3	98001732	98002676	3	1	48660
PROK2	3	71820807	71834357	25	6	48315
NIPAL3	1	24742284	24799466	159	15	50492
GABRA1	5	161274197	161326975	126	14	50283
RP11-244H	1	35447134	35497342	46	2	36383
OSGEP	14	20914570	20923264	34	5	50196
FGB	4	155484108	155492238	16	2	52061
NUAK1	12	106457118	106533811	206	34	46223
CMYA5	5	78985700	79096063	297	33	49454
CALM1	14	90862846	90874605	21	4	46608
AC018755.	19	52095036	52097630	14	5	47898
C16orf59	16	2510081	2514964	1	1	33009
C19orf26	19	1228286	1238026	12	3	35685
TJP1	15	29991571	30261068	545	40	49972
CUL9	6	43149913	43192325	69	9	48111
SYNE1	6	152442819	152958936	1573	108	49725
C10orf25	10	45493146	45496336	4	2	51124
KLC2	11	66024765	66035331	13	3	49064
C1orf53	1	197871777	197876497	5	3	41998
SLAIN2	4	48343339	48428229	202	14	51377
TARBP2	12	53894705	53900215	1	1	49124
IGSF11	3	118619404	118864915	559	39	50431
SH3PXD2A	10	105348285	105615301	616	58	50375
PCGF3	4	699537	764428	220	28	47281
CYB5R2	11	7686331	7698453	49	10	49599
ZHX3	20	39807088	39946312	188	15	51396
FFAR1	19	35842445	35843367	1	1	45518
ERAP2	5	96211643	96255420	183	10	52448
GLIPR1	12	75874460	75897633	51	7	51865
RPSA	3	39448180	39454033	26	3	52901
DZIP3	3	108308529	108413693	122	12	52198
SRRM2	16	2802330	2822539	22	4	40470
TDRD12	19	33210659	33320483	241	20	49178
L1TD1	1	62660503	62678000	103	17	50082
NAA60	16	3493611	3536963	165	13	53089
PUM2	2	20448452	20551995	190	15	51805
NODAL	10	72192071	72207707	31	6	51908
RP11-187E	14	32476108	32487891	21	6	48238
MGAT4A	2	99235569	99347589	178	18	50330
CRTAM	11	122709208	122743347	83	17	48182

SLC22A9	11	63137261	63177766	107	17	46787
CTD-2521N	19	17547420	17571613	49	8	44417
PRRT2	16	29823177	29827201	4	2	38449
CCR2	3	46395225	46402419	18	4	51943
STK25	2	242432089	242449145	45	9	52645
ODF3B	22	50968139	50971009	4	1	42445
OR1L8	9	125329778	125330838	5	2	45401
NMT2	10	15144583	15210692	225	28	46554
C1QC	1	22970123	22974603	18	3	49286
AC078925.	12	131514221	131514769	4	1	35117
SMAD4	18	48494410	48611415	98	6	48892
CAPN2	1	223889295	223963720	200	12	50002
SLC9A9	3	142984064	143567373	1664	132	48759
ARPC1B	7	98971872	98992424	36	5	45818
CD1D	1	158149737	158154686	7	2	51505
CSNK2A1	20	459116	524465	86	11	47453
SPARC	5	151040657	151066726	55	10	48551
VAT1	17	41166622	41177140	9	2	47855
SKA3	13	21727734	21750741	65	9	49694
PRSS3	9	33750515	33799230	118	17	51660
KAT2A	17	40265126	40273376	12	2	44025
FAM211A	17	16344891	16395467	141	13	51522
WDR61	15	78570177	78592136	46	10	52052
C15orf32	15	93014884	93044347	79	15	49650
SERPINB12	18	61223393	61234244	29	4	43135
PSME3	17	40976402	40995774	3	2	45049
APPBP2	17	58520520	58603580	13	4	41897
SLC30A7	1	101361632	101447309	104	9	51691
RP11-1102	8	72315675	72504260	380	33	48602
SMKR1	7	129142320	129152773	22	7	48299
INPP5B	1	38326369	38412729	144	15	48167
CDK5RAP1	20	31946645	31989367	35	7	47423
BANF1	11	65769550	65771620	8	3	50171
TM4SF1	3	149086809	149095652	18	3	51925
PCSK5	9	78505560	78977255	1558	173	49233
CNPPD1	2	220036619	220042828	15	3	43961
CX3CL1	16	57406370	57418960	34	8	49268
LRRC25	19	18501954	18508427	21	4	47158
PTPRB	12	70910630	71031220	410	50	50953
C1orf52	1	85715639	85725355	25	9	50470
CSNK1E	22	38686697	38794527	140	23	41273
AC079354.	2	202937978	203062585	294	25	52406
AGAP3	7	150782918	150841523	131	18	49259
AC007216.	16	12062000	12062333	1	1	47456
SH3TC1	4	8183799	8243530	158	27	46396
RHOD	11	66824289	66839484	20	4	46196
SAMD14	17	48187404	48207246	24	8	45980
AC093802.	2	240684554	240724577	217	23	51382
BAALC	8	104152938	104242533	296	32	52833
ING4	12	6759446	6772314	10	3	44172
IFFO2	1	19230775	19283180	137	23	47371

AP001885.	11	66963391	66964638	1	1	38578
EDC4	16	67906926	67918406	10	3	49777
CAPZA1	1	113161795	113214241	61	8	48418
TMEM62	15	43415477	43477344	41	8	44652
TMEM132C	12	128751948	129192460	1105	138	46610
CLEC17A	19	14693896	14721969	83	12	46768
DHX37	12	125431371	125473668	242	31	46901
CYP4F2	19	15988833	16008930	79	8	51958
SPACA1	6	88757507	88776550	19	4	50464
PPM1B	2	44395108	44471523	138	12	50673
DEFB112	6	50011288	50016364	10	3	50895
TXNDC9	2	99935445	99957165	41	7	50933
GEMIN4	17	647654	657239	28	6	49653
IL36RN	2	113816215	113822959	43	3	49257
C16orf45	16	15528152	15718885	227	28	47132
HSD17B2	16	82068609	82132139	79	10	45713
SCG3	15	51973550	52013223	79	12	49711
RPS14	5	149822753	149829319	27	3	51239
CLDN14	21	37832919	37948867	377	31	46695
RSPH6A	19	46298968	46318577	61	10	49678
PILRA	7	99965153	99997719	38	5	49540
TM4SF18	3	149036285	149052201	36	9	50831
PLCD4	2	219472488	219501907	36	4	48671
AP000889.	11	107462471	107463949	8	3	47220
CNN3	1	95362507	95392834	111	24	49099
AURKC	19	57742377	57746916	13	3	51661
SMIM12	1	35178338	35325417	472	56	45861
SLCO2A1	3	133651540	133771028	313	43	49881
GALNT2	1	230193536	230417870	726	62	49104
TOP3B	22	22311397	22337213	70	8	50561
NLK	17	26368763	26523407	66	23	44915
ZNF85	19	21106028	21133503	134	7	53949
KANSL3	2	97258907	97308524	37	9	43603
CPXM2	10	125465723	125699783	907	87	46470
DSG1	18	28898052	28936992	130	9	49571
SLC38A6	14	61447832	61550451	89	12	44808
COPS3	17	17150141	17184607	91	9	50293
AC002985.	19	19017822	19045206	54	11	42047
ACSM4	12	7456880	7481320	44	8	51640
CST8	20	23471738	23476655	15	3	44801
CCDC138	2	109403213	109501933	161	11	48663
TWIST2	2	239756673	239795893	40	11	39535
KLF2	19	16435628	16438685	7	3	44946
SIN3A	15	75661720	75748183	78	7	49880
ANKRD49	11	94226795	94232749	11	4	45377
CD3D	11	118209669	118213459	6	2	49347
RDH13	19	55550476	55582659	151	19	49730
C17orf97	17	260118	273510	37	7	40992
FZD10	12	130647004	130650285	9	4	46709
DDAH1	1	85784164	86043933	677	53	50069
CHKA	11	67820326	67888911	76	10	49189

SLC5A11	16	24857162	24922949	169	21	50270
ELAVL2	9	23690102	23826335	325	32	49541
MFAP3L	4	170907748	170954182	100	14	50875
MINPP1	10	89264632	89313217	68	11	48996
NT5C3B	17	39981335	39992523	37	3	51513
ZNF625-ZN	19	12242932	12267546	30	3	50083
CAPN11	6	44126548	44152139	83	15	47485
OR52E6	11	5862158	5863182	10	2	49660
ARNTL	11	13298199	13408813	235	30	48000
SKA1	18	47901365	47920543	55	5	51888
C13orf45	13	76445187	76457947	73	8	49449
ZNF20	19	12203658	12251222	70	8	48478
SMPDL3B	1	28261504	28285668	59	8	50605
S1PR5	19	10623623	10628607	14	6	40477
BGLAP	1	156211753	156213112	1	1	56632
SPATA13	13	24553944	24881212	1230	143	49359
TDRD9	14	104394799	104519004	345	13	47645
LGSN	6	63985856	64029882	30	7	48286
BCL10	1	85731931	85742773	35	11	52828
FAM200B	4	15683285	15707188	56	9	51064
KCNJ16	17	68049570	68131749	231	13	51507
ABHD5	3	43731605	43775863	93	8	48627
ABHD12	20	25275379	25371619	185	9	49129
STRA6	15	74471807	74504608	72	10	46774
HIF1A	14	62162231	62214976	74	9	45691
PRKD2	19	47177532	47220384	71	12	49605
PLA2G2E	1	20246502	20250110	15	4	47861
FERMT3	11	63974150	63991354	29	7	50449
MIER3	5	56215429	56267502	155	17	49080
PRR23C	3	138760944	138763734	10	2	48593
SPINK1	5	147204131	147211349	7	2	51741
MKNK1	1	47023090	47082515	104	10	49903
MRPS33	7	140705854	140715028	17	4	51871
GTF2A1	14	81641796	81687721	76	12	47616
ZNF200	16	3272325	3286221	25	6	49000
LRRC69	8	92114060	92231464	254	11	51832
MTERFD3	12	107371069	107380944	19	7	48595
FZD1	7	90893783	90898123	3	1	50283
PRMT2	21	48055079	48085036	80	9	51150
SF3B4	1	149895209	149900236	9	1	53233
SDIM1	6	166307330	166309725	14	4	50245
CEACAM7	19	42177235	42210895	87	9	49229
PDE1A	2	183004763	183387919	1020	43	49560
PI4KA	22	21061979	21213705	340	11	52497
NOC2L	1	879584	894689	1	1	38319
SLC10A2	13	103696350	103719196	144	21	48459
ZNF175	19	52074551	52092991	57	11	50007
ATG16L1	2	234118697	234204320	199	19	50087
C11orf24	11	68028803	68039469	20	7	48563
PNRC1	6	89790470	89794879	7	2	41125
ORC4	2	148687968	148779147	119	8	52723

SLC22A25	11	62931248	62997124	179	11	50501
DLG1	3	196769431	197026171	564	20	51280
EFNA4	1	155036207	155042029	4	2	46737
ITPR1	3	4535032	4889524	1059	120	48068
PHACTR4	1	28696114	28826881	332	8	47916
BANF2	20	17674317	17716516	142	16	52495
ZC3H14	14	89029253	89079853	67	11	45108
ITGA10	1	145524891	145543868	14	3	43696
ACAD8	11	134123389	134135749	27	6	50973
OR9Q2	11	57957906	57958990	4	1	51139
GNMT	6	42928496	42931618	6	2	46085
CALML4	15	68483043	68498417	14	2	48976
ABCF1	6	30539153	30564956	48	7	43186
PYCR1	17	79890260	79900288	9	1	42113
MICU3	8	16884747	16980153	246	24	49904
AVPI1	10	99437181	99447080	27	5	50591
RSC1A1	1	15986364	15988217	3	2	44877
DOCK8	9	214854	465259	1142	64	49291
C2orf54	2	241825465	241836306	78	5	51838
CCDC77	12	498439	551811	98	15	45327
ACKR2	3	42846244	42929466	175	19	48268
TTR	18	29171689	29178974	10	3	49164
PAK2	3	196466728	196559518	313	27	49901
IKBKB	8	42128820	42189973	91	9	44444
CASP9	1	15817327	15853029	112	7	52876
SORCS1	10	108333421	108924292	1267	79	48328
NPHS1	19	36316866	36360189	67	10	41726
VPS72	1	151142463	151167797	15	6	46083
TMEM117	12	44229770	44783545	1131	30	47134
C5orf15	5	133291201	133304478	14	5	49883
XKR6	8	10753555	11058875	887	29	50277
SNX21	20	44462449	44471914	24	6	48769
FER1L6	8	124864227	125132302	485	33	51854
ROBO3	11	124735282	124751366	37	11	48364
GLI2	2	121493199	121750229	521	62	45003
EFCAB7	1	63989043	64038364	104	10	51495
SPEN	1	16174359	16266955	122	14	50052
C17orf47	17	56618948	56621729	5	2	52868
NDUFAF5	20	13765596	13799067	93	13	50324
MYL6	12	56551945	56557280	3	1	46541
FAM114A2	5	153369688	153418496	107	6	52150
UNC45B	17	33474836	33516364	98	13	51976
SYT4	18	40847843	40857615	8	2	47600
NEFM	8	24770525	24776607	5	2	50585
DNER	2	230222345	230579274	1090	82	47090
TUBB1	20	57594309	57601709	9	3	49830
TRIP11	14	92432335	92507240	142	15	48950
GRM7	3	6811688	7783215	2583	178	49093
NLRP1	17	5402747	5522744	473	18	50759
PNMA1	14	74178494	74181128	3	2	50468
LSM1	8	38020839	38034248	15	3	49031

PITPNC1	17	65373575	65693372	726	95	47470
PTBP3	9	114980715	115095947	233	9	51295
KRTAP13-4	21	31802572	31803216	4	1	48767
AHCYL1	1	110527308	110566357	18	6	45875
KCTD10	12	109886461	109915349	109	8	53243
TRIM62	1	33611003	33647660	63	4	51284
LMF2	22	50941376	50946135	16	5	42292
RP11-762I7	12	56151059	56221330	67	12	44491
STK39	2	168810530	169104651	830	37	48913
RP11-1C1.5	5	10505108	10522196	52	7	49546
CTD-2278I1	19	17378227	17393775	49	8	49503
PRDM12	9	133539981	133558368	44	9	46022
SGCE	7	94214542	94285521	86	8	52231
PARD6A	16	67694849	67696681	1	1	46740
LINGO2	9	27948076	28670283	2286	158	49585
HDAC11	3	13521224	13547916	61	14	46223
DCTN1	2	74588281	74619214	26	5	43843
DYNC1LI2	16	66754796	66785701	49	4	50585
RNF115	1	145611036	145696218	83	5	50799
SLC35G6	17	7384721	7386383	5	1	51713
ADCY10	1	167778625	167883453	309	39	50464
KLRC1	12	10594863	10607284	35	5	49841
C9orf163	9	139377947	139380518	4	2	47289
OSBPL2	20	60813580	60871268	141	15	46347
CSPG5	3	47603729	47622282	19	3	48612
ZNF174	16	3451235	3459370	16	4	49528
OR6B2	2	240968841	240969906	1	1	53538
ACVR2A	2	148602086	148688393	87	9	51755
SLC26A5	7	102993177	103086624	184	23	49371
TANC1	2	159825146	160089170	728	44	48088
ASB8	12	48541571	48574996	78	11	52150
CARNS1	11	67182439	67193078	15	4	44305
VIPR2	7	158820866	158937649	308	19	47630
TTYH1	19	54926393	54948080	62	13	41492
CENPE	4	104026963	104119566	147	9	53060
CPS1	2	211342406	211543831	405	32	49805
PALMD	1	100111499	100160097	124	15	46487
MAD1L1	7	1855429	2272878	1490	30	49443
MS4A2	11	59855734	59863444	17	3	43629
ARFGAP2	11	47185848	47198676	21	7	48446
TRIM46	1	155145873	155157447	11	5	44518
AP002884.1	11	112041253	112071394	59	10	53027
CHGB	20	5892076	5906007	35	5	51289
PNPT1	2	55861400	55921045	188	23	48188
LMX1A	1	165171104	165325952	459	45	50350
MIF4GD	17	73262309	73267308	3	1	51581
TMEM170E	6	11537938	11583757	140	16	50845
SFRP5	10	99526508	99531709	8	2	43302
PCDHB6	5	140529683	140532868	12	5	43535
PDE8A	15	85523671	85682376	380	20	50785
ZNF429	19	21679484	21739072	144	8	52889

CACNG3	16	24266874	24374122	319	46	49342
TSPAN33	7	128784712	128808671	68	6	47899
PHC3	3	169804520	169899537	99	10	50405
C14orf166	14	52456193	52471420	38	10	50615
ZNF160	19	53569859	53606689	154	21	49652
FBXL18	7	5470966	5553429	303	29	47244
PRTFDC1	10	25137536	25241533	324	29	49415
ZNF550	19	58046625	58071231	26	8	49580
C22orf39	22	19338891	19435755	163	13	46052
FAM160B2	8	21946670	21962409	36	7	44474
PIGB	15	55611158	55647846	102	14	49102
WIPF2	17	38375556	38440388	85	7	46049
PIGS	17	26880401	26898890	11	3	48772
PDPR	16	70147529	70195203	10	4	45137
FAM13C	10	61005890	61122939	234	24	49263
SLC39A6	18	33688495	33709348	38	4	50944
NFU1	2	69622882	69664760	81	5	50758
F13B	1	197008321	197036397	48	6	47005
PENK	8	57349233	57359293	30	6	48394
AQP10	1	154293566	154297801	12	4	51238
SLC35E1	19	16660642	16683193	25	6	48564
DGKD	2	234263153	234380750	219	23	50399
ANGPTL7	1	11249398	11256038	11	1	45518
CFHR2	1	196788898	196928356	233	17	47791
VWA5B1	1	20617412	20681387	218	25	51269
CEP68	2	65283500	65314138	84	12	49675
GTPBP10	7	89964537	90020769	164	16	50511
NPNT	4	106815932	106925184	294	19	47716
CTD-2535L	17	63534220	63637151	183	24	45344
C12orf76	12	110465872	110511491	85	13	49905
KIAA0430	16	15688243	15737023	59	12	47560
TECR	19	14627897	14676792	106	16	46156
LDB2	4	16503164	16900432	955	99	48257
NOA1	4	57829536	57844989	45	11	51686
OR11A1	6	29393281	29424848	71	10	45084
DLX2	2	172964167	172967628	3	2	42589
C19orf25	19	1461142	1479555	15	2	32393
C20orf187	20	11008408	11010014	3	2	44351
NANOS2	19	46416475	46418036	3	1	44880
HIST1H4H	6	26281283	26285762	12	3	50960
SASH1	6	148593440	148873186	1006	97	50799
SMYD4	17	1682779	1733928	162	14	50184
C1GALT1	7	7196565	7288282	324	20	51577
FTL	19	49468558	49470135	1	1	38082
NEU4	2	242749920	242758739	18	3	38206
CDIPT	16	29869678	29875057	5	3	36861
SP7	12	53720362	53739099	26	5	48607
CYP4V2	4	187112674	187134610	72	11	50767
AC132186.	16	66516775	66519747	4	1	50022
FCER1G	1	161185024	161190489	16	5	46961
TRIM26	6	30152232	30181204	106	15	46364

NKX2-8	14	37049784	37051812	2	1	50758
COL4A3	2	228029281	228179508	692	57	50508
FASTKD5	20	3127165	3140543	27	6	45170
C11orf48	11	62430287	62439727	15	3	46571
ACSS2	20	33459949	33515769	77	5	47022
GALNT18	11	11292423	11643552	1423	141	49955
GP6	19	55525073	55549632	114	13	48020
TSPAN12	7	120427376	120498456	77	7	47833
MS4A8	11	60467047	60483284	8	2	47877
CNNM2	10	104678050	104849978	392	20	51418
PDZD7	10	102767440	102790890	60	18	45111
LSM7	19	2321516	2328619	25	5	44375
ZNF730	19	23258012	23330021	136	12	49528
DNAJC8	1	28525967	28559536	81	9	51425
RP11-307N	13	24553839	24895169	1291	134	49403
TAMM41	3	11831916	11888393	75	10	46038
DSCR8	21	39493545	39560110	98	11	47909
TSPAN18	11	44748015	44953972	592	61	47576
SUCLG1	2	84650647	84687169	51	4	48660
DDHD2	8	38082736	38133076	36	4	50298
CYP3A4	7	99354604	99381888	17	6	40601
LONRF2	2	100889753	100939195	143	8	51526
PHC1	12	9066492	9094063	58	9	49122
PACRG	6	163148164	163736524	1586	110	50568
U2AF2	19	56165512	56186081	45	7	43611
RP11-729L	18	48494389	48584514	80	5	48860
C1orf168	1	57184477	57285369	302	39	48639
RGS1	1	192544857	192549161	10	3	44459
RGS10	10	121259340	121302220	121	18	50300
NFATC1	18	77155856	77289325	484	34	47242
ZNF576	19	44100544	44105309	2	1	51581
CLEC4G	19	7793843	7798792	7	2	53668
TAC1	7	97361220	97369784	24	3	52532
MSRB1	16	1988211	1993327	7	2	41199
DCLRE1A	10	115594488	115614142	12	4	44363
NPL	1	182758428	182799519	59	7	49368
CDH19	18	64168320	64271375	187	21	50894
STK40	1	36805225	36851497	46	5	46166
C6orf195	6	2622147	2634837	39	8	50706
SCN2A	2	166095912	166248818	370	29	52024
HSPA12A	10	118430703	118502085	230	21	49325
KIAA1430	4	186080819	186130658	125	9	49730
APLP1	19	36358801	36370693	16	1	39993
MYF6	12	81101277	81103253	5	2	44380
PLXDC2	10	20105168	20578785	1838	86	50544
ZNF19	16	71498453	71598992	147	19	50738
RASSF2	20	4760669	4804291	222	31	50077
LGI3	8	22004338	22014597	16	2	43766
SRPRB	3	133502877	133544616	75	14	51144
UTP14C	13	52598827	52607736	11	3	47095
C11orf35	11	554855	560779	26	7	46616

EFCAB4B	12	3715799	3873985	598	55	51559
C19orf38	19	10947251	10980466	42	8	49005
FBXW12	3	48413709	48442666	33	2	53461
MERTK	2	112656056	112787138	417	18	52313
UBXN2A	2	24150155	24227779	245	19	51539
ALDH7A1	5	125877533	125931110	146	22	47902
MROH7	1	55107463	55175939	204	31	49927
PDS5A	4	39824483	39979576	369	27	50582
MIS12	17	5389605	5394134	25	6	47533
PDC	1	186412698	186430254	19	3	49422
HLA-DQA1	6	32595956	32614839	110	13	38421
LRRD1	7	91741473	91808845	86	4	51365
ADRA1D	20	4201329	4229721	82	16	48837
PRSS53	16	31094746	31100949	10	2	46923
WFIKKN2	17	48912011	48919709	22	3	50147
MNX1	7	156786745	156803345	37	10	43020
EXTL1	1	26346375	26362955	23	5	48193
MUM1	19	1285890	1378430	110	21	40356
PLD6	17	17104309	17109629	15	4	44749
TRIM13	13	50570024	50594617	42	7	48431
PA2G4	12	56498103	56507691	5	2	44274
TRPM5	11	2425745	2444275	39	4	38635
NUP50	22	45559722	45583896	78	7	52757
AC006126	19	45690646	45720191	108	22	39135
WBSCR28	7	73275489	73280223	15	2	44394
TLX3	5	170736288	170739138	2	1	51096
BTN2A1	6	26458150	26476849	63	12	49457
OVCH1-AS1	12	29542227	29640421	296	16	51231
BAG5	14	104022881	104029168	9	2	52595
EFNA2	19	1286153	1301430	8	1	33300
PPP2CA	5	133530025	133561833	85	5	48351
FAM71F1	7	128349115	128371797	86	16	51018
CCDC68	18	52568740	52626739	112	13	52927
IQCE	7	2598632	2654368	229	23	51866
EVA1C	21	33784314	33887707	259	18	50838
ZNF594	17	5082831	5095178	20	5	47699
RAB20	13	111175417	111214080	172	19	50108
OR5D14	11	55563032	55563976	6	3	54104
C2orf16	2	27799389	27805588	7	3	44678
RSL24D1	15	55473004	55489265	55	8	49345
CLK4	5	178029665	178057616	41	7	48648
KLF14	7	130417401	130418888	4	2	47452
TMEM82	1	16068917	16074477	11	3	47467
ZNF606	19	58488421	58514717	85	7	53135
ALAS1	3	52232102	52248343	13	2	49812
GMPR2	14	24701628	24708448	6	2	48766
EOMES	3	27757440	27764206	7	3	46881
CRP	1	159682079	159684379	4	2	50802
ADO	10	64564516	64568238	6	2	46238
CCK	3	42299317	42307699	19	4	47515
C17orf89	17	79213039	79215081	4	2	45198

C5orf58	5	169659451	169679579	21	6	46333
FAM155A	13	107820883	108519083	2176	191	48161
RDX	11	110045605	110167447	156	13	49601
COPS6	7	99686577	99689823	3	1	48079
ZNF628	19	55987699	55995854	24	6	41792
CCDC91	12	28286182	28732883	960	16	49455
ABCC11	16	48200821	48281479	207	8	52397
TBC1D24	16	2525147	2555735	8	4	34128
ANKRD23	2	97490263	97523671	31	3	44054
DQX1	2	74745258	74753463	3	1	36224
LUZP2	11	24518516	25104150	2063	86	49664
NEURL2	20	44517264	44519926	3	1	45374
BIN2	12	51674822	51718452	126	8	52081
TAS2R42	12	11338599	11339543	7	2	46332
UNC119B	12	121148238	121161443	42	8	51544
COMMD2	3	149456257	149470286	24	4	39826
IRF7	11	612553	615999	12	2	48016
WBP4	13	41635410	41658137	14	6	46982
FLT3LG	19	49977464	49989488	29	3	46095
JAK1	1	65298912	65432187	302	21	48530
RHOV	15	41164412	41166487	1	1	55272
RANBP10	16	67757005	67840555	74	7	46983
FAM169B	15	98980391	99057611	220	19	50851
SLC8A3	14	70510934	70655787	554	36	51729
MOCOS	18	33767482	33852120	231	33	51415
DMRTA2	1	50883222	50889172	1	1	45852
GALNT5	2	158114110	158170723	112	9	42137
ATP12A	13	25254549	25285921	158	18	49987
OR7A10	19	14951760	14952689	5	2	53871
TOMM20	1	235272651	235292251	40	4	47496
CYP2F1	19	41620337	41634271	30	4	48215
HDAC5	17	42154114	42201070	67	7	42307
CWC25	17	36956687	36981734	30	8	46468
AF131215.1	8	10983980	10987745	10	2	48843
WBP2NL	22	42394729	42454460	98	8	50822
MBD6	12	57914493	57923931	9	2	47157
BEST1	11	61717293	61732987	45	8	43890
ADAMTS13	9	136279478	136324508	132	17	46737
CAPN9	1	230883130	230937749	239	28	51832
MMP1	11	102660651	102668891	32	10	50787
EIF5B	2	99953816	100017789	125	14	49101
DGKB	7	14184674	15014402	2392	132	49199
GRAMD3	5	125695824	125832186	345	46	45082
LHX1	17	35294084	35301917	11	3	38975
TMEM114	16	8619502	8622304	12	4	53347
REEP2	5	137774706	137782658	20	5	50204
PTGS2	1	186640923	186649559	17	6	42985
CPD	17	28705923	28797007	83	8	48279
FAM98A	2	33808725	33824449	37	8	48709
POLR1D	13	28194903	28241548	141	24	49740
TMEM220	17	10602332	10633633	88	2	53920

C9orf47	9	91605778	91611055	13	5	47911
RP11-403P	16	66503715	66551215	58	6	47920
LRGUK	7	133812052	133949343	297	7	50266
BRK1	3	10157276	10168874	45	4	51678
LRR1	14	50065415	50081390	39	4	49893
MTMR4	17	56566898	56595266	33	7	50428
TSACC	1	156307105	156316786	13	4	48732
GFRAL	6	55192267	55267291	511	22	47383
PCCB	3	135969148	136056738	111	14	48274
ALMS1	2	73612886	73837920	317	9	50036
PRR22	19	5782971	5784776	5	2	44166
NT5DC2	3	52558386	52569070	23	4	48115
ATP11B	3	182511288	182639423	220	11	50559
ACVR1B	12	52345451	52390862	63	9	45077
DUSP7	3	52082935	52090566	5	2	40078
SAC3D1	11	64808373	64812300	10	2	45551
GPR6	6	110299514	110301921	3	1	51038
CENPBD1	16	90036206	90038942	4	2	47459
AC011551.	19	47050313	47104118	142	22	48311
RABL2A	2	114384806	114400973	17	3	45265
NKTR	3	42642106	42690227	109	10	48968
ELAC1	18	48494361	48514491	16	3	46903
CLDN18	3	137717577	137752494	59	7	50272
LRFN3	19	36426260	36436669	13	2	38282
KDM4A	1	44115829	44171186	68	9	48338
PRH2	12	11081835	11084940	3	2	48286
KIAA0922	4	154387498	154557863	368	40	45930
PTPN22	1	114356433	114414381	85	12	47373
PDE5A	4	120415550	120550146	357	15	52502
EHHADH	3	184908412	184999778	142	14	47926
FAM129B	9	130267618	130341268	209	26	49877
CLEC11A	19	51226586	51228974	4	2	41005
INA	10	105036920	105050108	18	6	49610
DCBLD1	6	117774980	117891021	367	26	52131
NBN	8	90945564	91015456	155	9	50409
DNAH14	1	225083964	225586996	1418	28	48953
NAA60	16	3415099	3536960	368	20	52205
REP15	12	27849428	27850566	2	1	49477
WNK4	17	40932696	40948954	4	2	43651
CHCHD2	7	56169262	56174269	14	4	51291
IL17RC	3	9958758	9975314	36	12	43999
LDHC	11	18433854	18473605	168	9	52940
PIPOX	17	27277531	27384234	156	29	49169
ABR	17	906758	1132315	686	91	42363
RTEL1-TNFI	20	62290653	62330037	153	16	45796
PHOX2B	4	41746099	41750987	10	3	48023
ZNF608	5	123972608	124084500	290	31	50632
ARPC5L	9	127624409	127640003	10	3	48386
AC109583.	3	46927699	46930171	3	1	45755
DMKN	19	35988122	36004560	56	14	48222
TTC23	15	99676528	99791428	276	20	51396

ADRB3	8	37820516	37824483	5	1	43482
KIF16B	20	16252749	16554078	1014	48	51036
LEKR1	3	156543270	156763918	564	23	51344
ABCG2	4	89011416	89152474	386	37	49083
MED19	11	57471186	57479693	9	4	48173
IFT81	12	110562140	110656602	94	14	48837
FOXF2	6	1390069	1395832	11	4	40347
TIGD4	4	153690506	153700916	20	4	51790
AHNAK2	14	105403581	105444694	92	8	46663
DNAH10	12	124247042	124420753	389	33	48617
CD79B	17	62006100	62009714	11	2	50631
RICTOR	5	38938021	39074510	234	13	42625
DNM3	1	171810621	172387606	1187	59	50494
PTPN3	9	112137746	112260590	296	23	49896
LRRC4C	11	40135753	41481323	3253	161	50276
CDR2	16	22357257	22448486	29	5	45019
LMCD1	3	8543393	8609805	214	21	49772
CD48	1	160648536	160681641	104	15	45513
CLK3	15	74890841	74932057	48	7	46167
GNGT2	17	47280153	47287936	25	7	48013
XPNPEP1	10	111624524	111683311	82	9	49566
AURKA	20	54944445	54967393	28	8	42977
AL161450.:	9	5077163	5084580	15	3	51847
OR51F1	11	4790209	4791168	16	3	46076
ULBP2	6	150263136	150270371	12	4	43395
EFR3A	8	132916335	133025889	242	19	49622
ZNF841	19	52567719	52599018	92	7	50226
NAGK	2	71291474	71306935	47	7	52232
METTL6	3	15422782	15482073	101	10	49085
ZP2	16	21208773	21225831	37	8	49419
LANCL1	2	211295973	211342376	92	8	51203
PCDH20	13	61983818	62002220	46	7	51376
OCIAD1	4	48807229	48863834	60	9	45223
AC007375.	14	77607026	77609339	6	2	48396
RNF17	13	25338290	25454059	298	15	54185
NDUFC2	11	77779350	77791265	31	5	51854
SSU72	1	1477053	1510249	43	2	40795
NFKB2	10	104153867	104162281	12	6	46684
CDK4	12	58141510	58149796	9	4	44550
BTBD10	11	13409548	13484844	157	11	52666
TRHDE	12	72481046	73059422	1084	53	46910
PSMC6	14	53173890	53195305	24	5	50381
ZBTB2	6	151685252	151712683	46	8	47777
ZDHHC2	8	17013538	17082308	199	30	48419
AP4E1	15	51200869	51298097	211	16	53344
OR6C70	12	55862984	55863922	3	2	47950
ADRB1	10	115803806	115806667	3	2	47603
DHX34	19	47852538	47885961	96	10	42416
TMEM53	1	45100910	45140227	71	5	48901
TNFRSF11B	8	119935796	119964439	103	15	50656
RPL18	19	49118585	49122793	5	2	40298

FCGR3B	1	161592986	161601753	20	4	41499
SEC24B	4	110354928	110462052	164	8	48921
EREG	4	75230860	75254468	61	5	46710
HOXB6	17	46671639	46682354	21	7	49343
GABBR2	9	101050391	101471479	1380	122	48486
NTMT1	9	132371163	132398209	69	10	50605
AL078585.1	6	163586446	163612840	83	11	51383
ZMPSTE24	1	40723779	40759856	33	8	47101
GFRA2	8	21547915	21669869	195	39	40022
LCN1	9	138413284	138418378	11	4	38348
ADCK1	14	78266426	78401355	563	35	50533
CDH2	18	25530930	25757410	447	31	49540
CLIP4	2	29320571	29412509	187	23	49648
OTUB2	14	94492675	94515276	77	8	51971
PPFIBP1	12	27676364	27848497	520	41	51024
ZNF622	5	16451628	16465901	32	7	48050
DAPP1	4	100737990	100791311	180	22	50671
OR6Q1	11	57798402	57799403	3	1	51783
C6orf132	6	42068856	42110357	123	20	49109
CDC123	10	12237964	12292588	115	14	49137
C11orf91	11	33719807	33722347	16	7	44186
OTOR	20	16729003	16750707	117	20	48646
UTF1	10	135043778	135045062	5	2	38382
DAAM2	6	39760142	39872648	285	30	46693
TMEM68	8	56608983	56685966	167	16	51005
KLF10	8	103661007	103668130	14	6	47272
TESK2	1	45809555	45956872	199	14	51383
SLCO6A1	5	101707486	101834720	417	15	49059
SPATA17	1	217804666	218045038	662	30	52328
CMTR1	6	37400995	37450603	53	10	47476
CKS2	9	91926113	91931618	15	6	48701
THAP7	22	21353393	21356485	3	2	52667
PTHLH	12	28111017	28125638	39	8	51065
YKT6	7	44240567	44253893	29	6	49347
PTGDS	9	139871956	139879887	15	3	41856
AD000671.1	19	36230153	36236333	16	5	51183
PAPSS2	10	89419370	89507462	240	28	50333
P2RY1	3	152552736	152555841	6	2	47254
HECTD2	10	93170096	93274586	103	5	43001
ST3GAL6	3	98451080	98540045	198	23	51320
NEMF	14	50249997	50319921	42	6	47956
ING1	13	111365083	111373421	12	2	48479
AC092782.1	1	243388058	243395911	11	4	44020
NEK11	3	130745694	131069309	609	27	46673
FUBP3	9	133454352	133513739	117	16	48428
MOB3B	9	27325207	27529779	574	54	49518
TOPBP1	3	133317019	133380737	152	13	50392
TECPR2	14	102829300	102968818	393	15	49277
ZNF114	19	48675575	48790865	431	37	49641
COL23A1	5	177664619	178017556	1186	107	48203
ZFP42	4	188916925	188926204	19	6	44810

CCDC63	12	111284573	111345339	157	20	47941
CYP4A22	1	47603107	47615413	42	5	52505
FKBP14	7	30050203	30066300	27	6	46113
DCP1A	3	53317447	53381654	94	12	49762
TNRC18	7	5346421	5465045	314	42	41369
HMCN1	1	185703683	186160085	449	25	46922
RHOA	1	228870824	228882416	41	6	50018
RPL22L1	3	170582664	170588272	11	2	51402
DBF4	7	87505531	87538856	58	7	49256
CDC42EP4	17	71279763	71308314	73	15	48788
CSRNP2	12	51454990	51477447	46	9	46751
SARS2	19	39405906	39440495	78	9	49195
CTC-360G5	19	39406044	39440495	78	9	49195
ANTXR2	4	80822303	81046608	458	27	48649
FGFBP3	10	93666346	93669240	5	2	51699
DEFB125	20	67891	77735	5	3	38496
ZNF121	19	9671029	9695209	46	3	47587
ZBTB42	14	105266933	105271049	3	2	37495
SPTBN5	15	42140345	42186275	129	22	46770
RP11-1055	17	79369275	79375658	2	1	33096
NPW	16	2059927	2070756	30	7	44191
FOS	14	75745477	75748933	8	3	43225
KLF1	19	12995237	12997995	2	1	51018
C2orf50	2	11273179	11286916	26	6	43355
ACTC1	15	35080297	35088340	18	8	43815
TNFRSF19	13	24144509	24250232	337	32	50832
ANKRD52	12	56631591	56652175	19	2	48713
TYW5	2	200794698	200820459	45	10	50350
LRP4	11	46878419	46940193	84	8	45983
SVIP	11	22835345	22851845	20	4	50962
ZNF696	8	144371846	144380231	27	3	49984
HNF1B	17	36046435	36105237	137	33	45006
ZNF385B	2	180306709	180726232	1442	94	51552
ABCE1	4	146019084	146050331	16	5	44250
PPP1R9B	17	48211104	48227991	20	7	43631
CEBPG	19	33864236	33873592	22	8	48243
ANXA11	10	81910645	81965328	196	19	51904
GKN1	2	69201705	69208106	26	4	50463
DDX52	17	35969787	36003493	41	6	48308
PKP1	1	201252580	201302121	206	17	49823
HRH4	18	22040593	22059921	58	15	50267
OR5D16	11	55606228	55607214	5	3	50389
MCM4	8	48872745	48890720	9	3	38948
LCE1C	1	152777311	152779107	13	3	48984
KPNA7	7	98771197	98805129	146	8	51628
TRIM37	17	57059999	57184282	158	14	46255
ATRNL1	10	116853124	117708503	1423	27	48419
NT5M	17	17206649	17250977	116	15	49018
ARAP3	5	141032968	141061788	74	16	50791
CYTL1	4	5016313	5021199	24	3	50465
PITX2	4	111538579	111563279	34	6	50100

ABHD11	7	73150424	73153197	5	2	48709
TNIP3	4	122052563	122148621	256	13	46823
DCK	4	71858255	71896631	31	4	38413
PDCD2	6	170884383	170893780	23	4	50736
RPS29	14	50043390	50065408	36	5	48199
HYI	1	43916824	43919660	5	2	49423
GALK2	15	49447853	49660066	519	16	47309
ZNF516	18	74069644	74207146	357	31	46053
HIST1H1A	6	26017260	26018040	4	2	49592
ZNF775	7	150065879	150109558	96	13	49435
SUDS3	12	118814185	118855840	81	5	48747
LCE6A	1	152815344	152816459	1	1	38301
CACNB4	2	152689290	152955593	548	24	47276
JMY	5	78532012	78623038	148	11	46056
CYP39A1	6	46517541	46620523	242	21	46677
LILRB2	19	54777675	54785039	20	4	44654
AMN	14	103388993	103399933	17	6	46704
PWWP2A	5	159488808	159546430	80	11	49424
PGBD5	1	230457392	230561475	350	30	48037
SNAP25	20	10199478	10288066	182	27	49649
ASPN	9	95218487	95244788	47	6	48770
CAPNS2	16	55600584	55601599	1	1	48583
ZNF445	3	44481262	44519162	47	9	47815
SRP54	14	35451163	35498773	175	16	52189
KRTAP3-3	17	39149686	39150385	5	2	47025
GUCA1A	6	42123144	42147794	99	16	48618
EIF1B	3	40351175	40353915	7	2	55519
EP400	12	132434508	132565005	156	12	44354
ZMYM6	1	35449523	35497569	42	2	36428
UBE2F-SCL'	2	238875656	239008053	356	13	51801
CCNO	5	54526980	54529508	5	2	51765
C9orf172	9	139738867	139741797	1	1	50605
CRYGS	3	186256230	186264491	11	4	49634
ZBTB10	8	81397854	81438500	69	10	49084
AC099552..	7	154988273	154990165	14	4	49997
MACROD2	20	13976015	16033842	5413	280	49870
OR4P4	11	55405834	55406772	1	1	41721
SOCS2	12	93963590	93977263	28	5	47724
SDSL	12	113860042	113876081	30	2	40745
SCGB1D1	11	61957688	61961011	9	3	49642
TSGA10	2	99613724	99771427	371	16	42269
ERMARD	6	170151718	170181680	91	11	47900
VWC2	7	49813257	49961546	291	29	50124
MFSD6L	17	8700436	8702667	5	2	44037
DENND6A	3	57611184	57678816	127	16	50306
MYH3	17	10531843	10560626	89	5	45357
FFAR4	10	95326422	95364237	135	18	47123
CMTM1	16	66600294	66613040	23	2	48675
ANK3	10	61786056	62493248	1985	75	51351
BCL2L2-PAI	14	23776044	23794578	21	6	46388
ATP5J2	7	99046098	99063954	30	4	48331

NRG3	10	83635070	84746935	2704	142	49443
MPST	22	37415676	37425863	29	7	48966
SLC25A30	13	45967451	45992590	45	8	47465
DCAF15	19	14063304	14072254	4	1	35927
NECAB1	8	91803778	91971636	302	10	48846
TRIM40	6	30103885	30116512	102	8	46405
ATXN10	22	46067678	46241187	307	16	52267
RPL36	19	5674958	5691887	23	6	43888
HELLS	10	96305547	96373662	128	10	50745
SAFB2	19	5587010	5624057	71	13	44557
GSK3A	19	42734338	42746777	9	2	49604
FBXO34	14	55738021	55828636	172	9	52673
ZBED6	1	203765437	203769686	7	2	46468
FTCD	21	47556176	47575481	75	20	42209
KLHL42	12	27932953	27955973	35	8	46971
NFX1	9	33290509	33371155	89	12	49273
GDF10	10	48425815	48438976	32	7	46178
M6PR	12	9092959	9102551	20	5	46488
PYDC1	16	31227283	31228680	1	1	46091
ISY1	3	128846258	128880136	23	5	39605
CDAN1	15	43015757	43029324	24	3	44760
MUC4	3	195473636	195539148	182	18	46264
OR8D4	11	123777109	123778183	11	3	49733
RNF44	5	175953698	175965026	12	4	46417
MYL10	7	101256605	101272576	48	10	48641
FBXL12	19	9920943	9938492	18	2	48195
ZNF524	19	56111388	56114504	6	2	43831
CCDC51	3	48473574	48481866	11	2	47917
ZC3H4	19	47567444	47617009	41	4	45838
SLC25A38	3	39424839	39438842	40	7	50956
AC027307.	19	1440838	1441937	1	1	48293
CYB5R4	6	84569362	84677143	193	9	46822
FH	1	241660903	241683061	33	7	46897
MED27	9	134735494	134955295	289	22	47378
ZFP69	1	40942887	40962015	43	8	49340
RAG1	11	36532259	36614706	143	17	47829
SERINC5	5	79407050	79551898	451	48	50974
ARHGAP39	8	145754563	145911194	86	11	39151
CTD-2410N	5	133502861	133561762	138	9	48661
C17orf82	17	59489112	59490641	3	1	46705
RGMB	5	98104354	98134347	54	8	49725
SLC12A7	5	1050499	1112150	135	20	40299
SSSCA1	11	65337901	65341413	6	2	51219
SLC11A2	12	51373184	51422349	112	10	50657
GSS	20	33516236	33543620	33	5	50490
PIGN	18	59710800	59854351	500	17	50059
TRIM23	5	64885507	64921802	106	9	50067
ATP5O	21	35275757	35288284	40	9	52308
COG2	1	230778235	230829728	153	22	49644
ANKRD36	2	97779233	97930258	49	5	40258
CCDC110	4	186366336	186392913	73	17	43660

SLC7A1	13	30083547	30169825	213	19	45749
IFNLR1	1	24480647	24514449	85	13	48731
SDAD1	4	76862103	76912115	90	11	48064
ZHX1	8	124260696	124287781	6	3	44975
IQCH	15	67547138	67794598	345	19	50400
FANCG	9	35073832	35080013	8	4	43861
TMEM223	11	62539101	62559493	32	6	43592
COX6A1P2	6	37012607	37013177	2	1	53016
NAA15	4	140222609	140341187	183	12	50405
ANKAR	2	190539016	190625919	121	12	50213
TLE6	19	2977444	2995177	41	6	39963
RAB24	5	176728199	176730745	5	3	43163
NTF3	12	5541278	5630702	216	37	50364
SPN	16	29674300	29682187	7	2	49084
Sep-03	22	42372276	42394225	46	7	50405
PRELP	1	203444956	203460480	38	6	45747
KRT40	17	39133968	39143387	74	5	45156
SSTR4	20	23016057	23017314	4	1	49358
RNF114	20	48552948	48570429	34	7	46794
OR5V1	6	29323007	29399744	275	20	47144
DHX16	6	30620896	30640814	31	7	40302
EP300	22	41487790	41576081	118	11	48254
TAF12	1	28915835	28969597	52	7	47794
TUBGCP5	15	22833395	22873892	70	4	41705
SORT1	1	109852192	109940573	106	7	48415
AC004824.	1	17655507	17676070	130	11	52142
EMR1	19	6887577	6940470	247	20	49545
CLSTN2	3	139654027	140296239	1592	122	48936
RBM19	12	114254543	114404176	563	30	49763
C20orf78	20	18790372	18810797	56	13	51457
BBOX1	11	27062272	27149356	246	23	50940
ZNF534	19	52932440	52955568	113	4	36363
ST8SIA4	5	100142639	100238970	161	9	49978
RPS23	5	81569177	81574396	19	5	49858
MMP11	22	24110413	24126503	17	4	47442
C5orf28	5	43444354	43483995	66	6	47033
PSME2	14	24612574	24616779	4	2	43275
FAM210B	20	54933971	54943719	29	5	46493
RAD23A	19	13056669	13064456	11	5	41266
FSHB	11	30252563	30256808	11	2	50520
HSDL2	9	115142217	115234690	245	15	53097
C22orf31	22	29454660	29457832	5	3	41863
TCF19	6	31126319	31134936	53	10	50175
POLR2B	4	57843888	57897334	148	18	52560
GFOD2	16	67708434	67753324	48	7	47462
USP22	17	20902910	20947073	131	9	50409
BNIP2	15	59951345	59981733	124	5	50882
HYOU1	11	118914900	118927913	19	5	44140
GNLY	2	85912298	85925977	56	8	50975
ASCC1	10	73856278	73976892	82	12	44298
LYRM1	16	20911190	20936328	27	5	46842

ADM2	22	50919985	50924869	9	4	38127
PIGW	17	34890847	34895159	5	2	49368
NDC1	1	54231133	54304533	97	6	49475
IFI27L1	14	94547628	94570192	103	12	49824
TRAPPC13	5	64920543	64962060	115	9	50711
MAK16	8	33342268	33358778	43	6	48902
ESPN	1	6484848	6521430	92	9	47030
RP11-366L	12	66245120	66275947	43	6	44990
SAMD13	1	84764049	84855640	151	17	48333
ZFHX2	14	23990066	24025401	27	5	45482
CLDN4	7	73213872	73247014	61	4	45105
TCL1B	14	96152754	96158980	20	6	51368
ZNF354A	5	178138593	178157703	49	4	51454
ZNF614	19	52516018	52533493	40	7	49193
SUSD5	3	33191537	33260707	210	21	51706
FRS3	6	41737914	41754280	40	10	45950
METTL10	10	126436718	126480439	73	10	50497
TAX1BP3	17	3566196	3571976	13	4	47595
C6ORF50	6	3982909	3984372	3	1	56476
ZNF577	19	52359055	52394203	194	12	46655
SYNGR1	22	39745930	39781593	96	12	47146
TIMP4	3	12194551	12200851	17	6	49631
DHX36	3	153990335	154042286	80	10	50922
REPS1	6	139224630	139309398	249	17	44625
NFIB	9	14081842	14398982	563	89	44512
GK2	4	80327508	80329372	1	1	55938
ZNF513	2	27600098	27603657	1	1	49358
HRASLS	3	192958914	192995527	70	7	51185
APPL2	12	105567074	105630016	197	19	51933
PAIP2B	2	71409869	71454213	151	18	50038
LRRC32	11	76368568	76381791	28	8	42485
SLMO1	18	12407895	12432237	68	14	47927
AL031663..	20	44074071	44077220	13	5	38526
NOC4L	12	132628993	132637013	7	3	38709
ARG1	6	131894284	131905472	21	7	45243
CDC42BPB	14	103398716	103523799	262	23	45336
RRP15	1	218458629	218511325	80	5	48608
AMTN	4	71384257	71398459	75	8	51757
TSPAN3	15	77336359	77376326	29	6	45546
CALM3	19	47104331	47114050	16	5	47771
RBM44	2	238707032	238751451	86	11	50768
PP13439	3	171509580	171527714	62	8	50662
NSMAF	8	59496063	59572403	144	13	49806
ILVBL	19	15225795	15236596	31	8	48577
MYOM2	8	1993155	2113475	935	74	48235
MLLT1	19	6212966	6279959	168	12	45271
SLC6A6	3	14444076	14530857	204	35	46891
C8orf86	8	38368352	38386180	50	6	49249
SAMD4A	14	55033815	55260033	509	87	46920
TRIO	5	14143811	14532235	844	44	49848
MRGPRF	11	68771863	68780877	15	4	51336

GTF2A2	15	59930261	59949740	56	4	48344
GOLGA2	9	131018108	131038274	29	4	47395
KBTBD11	8	1922044	1955102	151	20	48113
PTPLB	3	123209667	123304032	213	14	49691
GJC2	1	228337553	228347527	12	4	44682
ZBP1	20	56178902	56195632	24	7	39679
ST18	8	53023399	53373519	702	55	46856
ARL4D	17	41476327	41478505	5	2	48982
PTPN14	1	214522039	214725792	692	57	49981
NDST3	4	118954773	119179803	628	21	48118
RP11-89N1	7	33765593	33768068	5	2	43083
ZAR1L	13	32877837	32889481	52	5	53185
ZNF296	19	45574758	45579846	2	1	43738
RPL26L1	5	172385732	172396774	31	5	43972
PRKRIP1	7	102004319	102067123	108	8	50821
CRELD1	3	9975506	9987097	14	4	44695
GPR113	2	26531041	26569685	83	16	44398
INMT	7	30737601	30797218	132	23	47844
KNCN	1	47011316	47017199	12	3	49736
FANCF	11	22644079	22647387	2	1	44732
FANCA	16	89803957	89883065	373	14	47673
FGD2	6	36973422	36996846	59	16	46369
PFDN1	5	139624624	139682706	80	7	51935
LRRC72	7	16566505	16621193	178	26	51868
MOV10L1	22	50528308	50600119	358	13	51667
CASP7	10	115438942	115490662	146	16	52565
BARX1	9	96713905	96717654	10	3	51739
C8orf47	8	99076539	99105838	66	16	47563
CDKN2B	9	22002902	22009362	6	2	49540
RP11-536G	12	96196875	96217085	52	9	49441
OR4D9	11	59282386	59283330	1	1	37936
AC102948.	17	50939481	50976948	163	18	51988
GHRL	3	10327359	10334631	17	5	49711
UBIAD1	1	11333263	11356106	26	2	42471
PDE6G	17	79617489	79630142	67	8	50418
PER1	17	8043790	8059824	25	7	43211
ANKDD1A	15	65204101	65251042	91	14	46968
VPS35	16	46690054	46723430	13	2	39248
NR3C2	4	148999913	149365850	829	64	49248
SLC27A3	1	153746830	153752633	6	3	42677
C10orf113	10	21414692	21435488	19	4	49203
SHMT2	12	57623110	57628718	5	3	45249
PABPN1L	16	88928034	88933068	19	5	40403
SLC25A28	10	101370282	101380366	20	3	53688
SLC14A2	18	42792960	43263072	1301	87	50321
SOX12	20	306207	310865	10	2	38667
ESR1	6	151977826	152450754	1283	74	48274
RTKN2	10	63942794	64028466	203	14	51731
E2F3	6	20402398	20493941	159	26	47733
OCM	7	5919458	5925993	32	8	42998
PTPRR	12	71031853	71314623	700	70	49037

ZFYVE21	14	104182067	104200005	35	8	47562
S100A3	1	153519805	153521848	16	1	44875
TXNRD3NB	3	126290625	126327398	94	16	46310
CKLF-CMTN	16	66586490	66613038	45	3	48861
COMT	22	19929130	19957498	98	17	49227
SNTN	3	63638344	63664696	111	12	52268
CCDC103	17	42976510	42982758	17	3	51648
NDUFB9	8	125551344	125580751	114	17	50756
ERGIC3	20	34129770	34145405	28	4	51800
BCL2L14	12	12202778	12364018	440	54	50366
PUS3	11	125763381	125773116	26	6	49549
FREM2	13	39261266	39460074	443	44	49235
RP11-343C	16	69333585	69354614	33	5	51853
SSUH2	3	8661086	8786726	407	72	42866
ACTL7A	9	111624603	111626035	3	2	44394
AQR	15	35147732	35262040	217	15	48003
WAPAL	10	88195013	88281572	222	21	46768
ZNF788	19	12203078	12248050	64	8	48180
AGMO	7	15239943	15601640	1029	61	50205
HARS2	5	140071011	140078889	11	3	52734
C11orf84	11	63580860	63595190	23	5	44939
RAB23	6	57053607	57087078	26	6	48452
CHADL	22	41625517	41636938	14	2	51474
HSPA2	14	65002623	65009955	17	4	47647
NMBR	6	142379467	142409936	53	7	51035
STX11	6	144471663	144509507	52	8	45272
NMRAL1	16	4511681	4545764	118	7	47066
RAP1B	12	69004619	69054372	58	13	50747
POLR3D	8	22102617	22112113	20	3	46918
CELA3A	1	22328149	22339032	27	5	47035
ATP6V1C1	8	104033291	104085279	119	15	50318
FAM193A	4	2626988	2734292	236	22	48798
SCIMP	17	5112256	5138155	78	11	48762
ELP5	17	7154735	7163259	13	2	49366
ATP5D	19	1241749	1244824	1	1	42196
CPSF6	12	69633317	69668138	51	8	50076
NLRP3	1	247579458	247612410	125	28	49821
DENND4B	1	153901977	153919172	20	4	50795
KIAA0947	5	5420777	5490347	45	3	50566
PROX1	1	214156524	214214595	100	14	48038
PNLIPRP1	10	118349897	118368687	52	12	47018
AP000304.	21	34947431	34947645	1	1	53918
CLN5	13	77564795	77576652	36	5	47717
IFT57	3	107879659	107941417	318	5	51319
CD1B	1	158297741	158301321	7	3	47709
CCNE1	19	30302805	30315215	18	6	45428
P2RX5	17	3575493	3599698	57	10	45264
IL5	5	131877136	131892530	11	2	50451
IRAK4	12	44152747	44183346	68	8	46956
MIPEP	13	24304328	24463558	381	18	51716
NANOGNB	12	7917812	7926717	10	4	47336

TMEM30A	6	75962640	75994684	48	4	46247
NAB2	12	57482677	57489259	8	4	48475
RASSF8	12	26111962	26232825	464	32	51008
MPV17L2	19	18303992	18307758	11	3	51303
TMEM66	8	29920528	29940723	30	4	52105
PRDX6	1	173446405	173457946	13	3	49323
FCGR1A	1	149754227	149764074	1	1	36524
FAM45A	10	120863598	120897496	63	3	52105
MAEA	4	1283639	1333935	226	12	42248
NPPA	1	11905766	11908402	12	4	48951
FAM163B	9	136444079	136451319	1	1	42398
PSMA5	1	109941653	109969062	34	4	48860
HCN1	5	45259349	45696253	365	21	48768
MTRNR2L1	3	96335981	96337000	3	1	41257
FBXO32	8	124510129	124553446	121	26	48702
MARK4	19	45582546	45808541	614	47	47249
DCP1B	12	2055220	2113701	190	8	51834
C8orf44	8	67579850	67597799	12	3	44625
UNC93B1	11	67758575	67772452	21	5	49374
DPM2	9	130697378	130700763	6	1	44827
ZNF75A	16	3355406	3368852	21	2	49883
PAAF1	11	73587744	73638790	123	13	50567
DROSHA	5	31400604	31532303	232	23	48247
TRIM10	6	30119722	30128711	58	7	41236
SWT1	1	185126212	185260897	116	9	49187
CELSR1	22	46756731	46933067	620	61	47645
TCF7L1	2	85360533	85537511	563	47	49993
NKX2-6	8	23559964	23564111	14	3	52282
AC011239.	2	23729913	23747214	53	12	47113
CX3CR1	3	39304985	39323226	46	14	48918
GATA4	8	11534468	11617511	244	35	48041
AC011897.	2	14775215	14790933	18	3	49643
GPR45	2	105858200	105859924	1	1	53918
CCR5	3	46411633	46417697	15	3	48932
HIPK3	11	33278218	33378569	157	15	44176
OR51B4	11	5322244	5323226	3	1	43895
OR13C8	9	107331449	107332411	3	2	34838
EEF1G	11	62327073	62342401	14	2	49781
FAM71F2	7	128312342	128326929	52	7	53244
DUS1L	17	80015382	80023763	11	4	37511
EPHA10	1	38179552	38230805	171	18	52913
EIF5A	17	7210318	7215774	11	3	42723
ERCC2	19	45853095	45874176	45	9	44957
MAPK11	22	50702142	50709196	14	4	41046
STX4	16	31044210	31054296	16	3	50195
SMIM11	21	35747779	35780164	111	10	43302
SETD8	12	123868320	123893905	41	7	47521
ARL9	4	57371509	57390614	43	9	49260
C19orf66	19	10196798	10203928	6	2	40359
C1orf134	1	16555368	16556038	3	1	45651
EXPH5	11	108376158	108464465	181	22	49989

PKP3	11	392614	404908	28	5	41934
THBS2	6	169615875	169654139	190	31	49817
TMEM238	19	55890613	55895966	14	3	44567
BAG4	8	38034051	38070819	42	2	53311
ASS1	9	133320316	133376661	113	18	48352
IL27	16	28510683	28523372	22	5	45586
NCOA3	20	46130601	46285621	290	14	50430
RP11-463D	8	74600926	74791089	300	19	50084
AP003041.	11	129936836	129944012	34	4	51078
LIPF	10	90424198	90438571	37	9	48998
MAN1A1	6	119498374	119670926	597	25	52628
XPC	3	14186647	14220283	64	13	47876
OR14C36	1	248512077	248513015	5	1	53180
ASGR1	17	7076750	7082883	3	1	46800
BHLHE22	8	65492814	65496181	4	2	51817
COG7	16	23399814	23464501	73	5	47749
EBPL	13	50234859	50265611	140	17	49033
RP3-422G2	6	138699042	138704212	19	2	49207
SV2B	15	91643180	91844539	571	41	50919
SPC24	19	11242196	11266484	98	16	46570
KCNIP4	4	20730239	21950422	3798	167	51121
CORO1C	12	109038885	109125372	138	15	46018
MS4A5	11	60197062	60222687	68	10	50316
TTC7B	14	91006932	91282823	787	58	50392
RP11-444E	6	44240931	44346694	290	29	46354
OR4C11	11	55370830	55371874	2	1	50978
VPS9D1	16	89773542	89787394	28	8	44837
CPNE6	14	24540046	24547309	9	4	39331
C2orf66	2	197669726	197675000	5	2	46328
C5orf27	5	95187936	95195837	30	8	50257
LIMS2	2	128395956	128439360	158	28	47507
SNX22	15	64443914	64449680	9	4	47181
CNIH2	11	66045661	66052772	7	3	49458
AC005358.	17	12626199	12661542	59	12	44048
PIBF1	13	73356197	73590591	462	21	51682
STAC	3	36421836	36589499	634	38	50616
ATAD5	17	29158988	29222887	112	4	51028
ZBTB32	19	36195429	36207940	24	7	50102
EIF3F	11	7991798	8023409	99	20	47498
GUCA2B	1	42619092	42621495	7	3	51099
GCK	7	44183872	44237769	139	22	49454
CPB2	13	46627321	46679211	145	9	53095
CNPY4	7	99717236	99723134	7	3	50424
AMIGO3	3	49754267	49761349	4	2	43816
GMPPB	3	49754277	49761384	4	2	43816
HSP90AA1	14	102547075	102606036	113	13	45472
ARHGEF1	19	42387228	42434302	23	4	41214
INPP5K	17	1397865	1420182	68	9	47803
ANGEL2	1	213165524	213189168	29	6	46200
SP100	2	231280657	231408805	368	31	50908
SERP2	13	44947801	44971850	25	6	49355

NRSN1	6	24126350	24155128	69	21	47095
ZNF250	8	146076632	146127553	66	7	42392
HOXD3	2	177001340	177037830	67	10	49782
IQCF1	3	51928892	51937351	18	2	44209
SCGB3A1	5	180017103	180018540	3	2	41651
OR2M3	1	248366332	248367392	2	1	54035
MPG	16	127006	135852	13	1	45732
ZNF414	19	8575462	8579048	14	2	50403
STK32A	5	146614526	146767415	567	38	51601
KPTN	19	47978401	47987525	5	2	46694
NOP16	5	175810949	175815976	10	2	49612
SPIC	12	101869199	101880775	27	7	42186
MROH9	1	170904612	171033906	390	20	51002
USF2	19	35759881	35770724	28	3	53845
GPATCH4	1	156564279	156571288	35	3	46252
FRG1B	20	29611857	29634010	5	2	41565
C1orf101	1	244617679	244804479	484	20	46507
POP4	19	30094924	30108144	51	10	45454
C3orf84	3	49215065	49229291	17	4	48144
FOXC1	6	1610681	1614127	2	1	39895
IFIT5	10	91174343	91180758	19	5	48566
STRC	15	43891596	44010458	86	7	47972
ZNF219	14	21558205	21572881	22	5	44919
NUP54	4	77035812	77069668	209	8	53566
HPX	11	6452279	6463847	14	2	49776
ZDHC13	11	19138646	19197969	119	12	46570
P4HB	17	79801035	79818570	27	1	43536
ZNF778	16	89284118	89295363	54	5	47676
LGR4	11	27387508	27494322	178	23	50418
SLC1A4	2	65215611	65250999	85	20	46428
STAP1	4	68424446	68473055	179	23	48298
PHGDH	1	120202421	120286838	163	21	49901
KRTAP12-1	21	46101491	46102078	5	2	51585
PDCL	9	125560668	125590910	42	9	43483
TRIM8	10	104404253	104418164	20	7	47055
CCDC175	14	59971257	60043549	216	16	51305
SLC25A44	1	156163880	156182587	25	3	51076
IFIT2	10	91061712	91069033	9	4	45349
C6orf106	6	34555065	34664636	194	14	48853
EHF	11	34642640	34682604	92	23	45600
SPATA12	3	57094469	57109460	40	8	51259
DHPS	19	12786531	12792716	4	2	38462
FAM187A	17	42977135	42982758	15	3	52134
SP5	2	171571861	171574588	5	2	55864
FAM195A	16	691813	698474	5	2	42239
ZNF805	19	57751973	57766503	55	6	51803
OR4B1	11	48238344	48239314	3	2	47762
CTSB	8	11700033	11726957	132	15	47964
ADRBK1	11	67033881	67054027	13	4	37300
CHN1	2	175664091	175870097	215	13	48546
MAP3K11	11	65365226	65382853	30	7	47106

ELF1	13	41506056	41635576	191	13	50044
USE1	19	17326155	17330638	5	3	47717
NPTXR	22	39214457	39239987	60	7	45889
OR14A16	1	247978102	247979031	4	2	45802
ANKRD54	22	38226862	38245334	15	5	45795
FAM204A	10	120065401	120101840	48	11	47110
DPH1	17	1933404	1946724	35	11	46830
C20orf62	20	43080624	43093984	16	4	46099
EYS	6	64429876	66417118	5141	110	51351
SERPINE2	2	224839829	224904036	192	23	50461
BRF1	14	105675623	105781926	178	9	48522
RNF175	4	154631277	154681387	174	11	52996
PCNXL4	14	60558629	60635851	169	5	47929
PLEKHO2	15	65134088	65160206	65	8	44449
NRXN2	11	64373646	64490660	122	9	45748
RGS3	9	116207011	116360018	364	12	51775
GSTM4	1	110198703	110208118	21	6	43833
CD7	17	80272744	80275478	3	1	48298
SUMO4	6	149721495	149722177	2	1	52920
NOL6	9	33461439	33473928	27	7	48763
RP11-1407	17	36337717	36421858	14	3	41188
DDRKG1	20	3170996	3185331	57	11	50864
TMEM196	7	19758933	19813221	170	14	49963
TNKS1BP1	11	57067112	57092426	59	9	50531
TMEM254	10	81838402	81852313	45	9	51327
ARHGEF4	2	131594489	131804836	413	31	46494
NPAS1	19	47523077	47549033	35	13	35776
WDR82	3	52288437	52322036	52	9	47136
NDUFA6	22	42481529	42486959	8	2	52195
DUSP19	2	183943287	183964733	53	10	49745
CSMD2	1	33979609	34631443	1520	127	48335
ADCK4	19	41197434	41224112	57	10	49624
ST7L	1	113066140	113163447	177	13	49461
WISP1	8	134203282	134242587	106	22	48556
ZNF34	8	145998499	146012730	27	3	49102
CABIN1	22	24407642	24574596	201	17	46728
KRTAP4-6	17	39295685	39296739	5	3	41135
RAP1GAP2	17	2680350	2941033	778	109	46295
ACN9	7	96745902	96811075	112	8	52421
ZP3	7	76026835	76071388	140	18	49312
EPB41L4B	9	111934255	112083244	345	49	48868
CERS3	15	100940600	101085200	591	25	49661
COL12A1	6	75794042	75915767	122	18	43939
C9orf78	9	132589569	132598142	53	3	51195
TM2D1	1	62146718	62191095	84	9	51311
CCDC88C	14	91737667	91884188	365	49	48005
ALG10	12	34175216	34182629	16	3	49015
ZNF212	7	148936742	148952700	43	10	49047
PRM2	16	11369496	11370337	2	1	38511
LRRC4B	19	51020149	51071302	98	23	42752
USP3	15	63796793	63886839	200	18	47369

OR10K1	1	158435272	158436344	3	1	50360
RP11-371E	14	93651318	93684932	78	14	50021
GLI1	12	57853918	57866045	28	4	44290
OSGIN2	8	90914087	90940116	47	8	46144
WBP11	12	14939410	14956474	21	7	49861
SLC6A16	19	49792895	49828482	39	5	49945
ACBD7	10	15119522	15130775	61	13	50905
ROCK1	18	18526867	18691812	68	4	42314
LAPTM4B	8	98787285	98865241	348	13	52026
FIGN	2	164449906	164592522	212	27	47922
RP11-89K1	15	102277302	102285913	14	5	48678
GYG1	3	148709128	148745419	66	12	51388
CLIC4	1	25071848	25170815	80	8	47342
ATCAY	19	3879862	3928077	88	23	35748
MPV17	2	27532360	27548547	12	4	44186
WDR65	1	43637820	43720029	258	17	48589
GPR128	3	100328433	100414323	129	9	50657
MRRF	9	125026882	125085743	32	5	45960
OR9Q1	11	57791353	57949088	491	25	52659
LUZPP1	3	46598888	46601178	14	3	50656
ARID5A	2	97202480	97218375	19	6	43086
RNF19A	8	101269288	101348446	123	6	51871
SLC25A17	22	41165634	41215403	47	4	47526
RGS6	14	72399156	73030654	2015	96	49840
PLXNA4	7	131808091	132333447	1365	109	48435
POU5F2	5	93070508	93077343	6	2	47897
GRIK5	19	42502473	42573650	30	5	47945
CKAP2L	2	113493930	113522254	38	5	48364
PSMB6	17	4699439	4701790	7	3	40984
BNIP3L	8	26240414	26363152	450	55	50049
ANKRD13D	11	67056018	67069956	13	4	40430
AC079612.	2	240499995	240507788	35	7	49288
ZBTB38	3	141043055	141168634	218	24	46646
SGPP1	14	64150932	64194757	46	3	43916
SLC18B1	6	133090509	133119701	86	9	47669
ZNF497	19	58865723	58874214	6	2	41618
TMEM249	8	145575878	145578574	2	1	39631
ANKS1A	6	34857042	35059179	427	32	46794
PTK2	8	141667999	142012315	407	10	48755
DTWD1	15	49913177	49937333	41	9	46094
ACTR2	2	65454887	65498387	97	10	50638
CHST1	11	45670427	45687172	37	5	48263
LRRC48	17	17876127	17920203	61	5	47206
ARF4	3	57557090	57583947	64	9	50829
DUSP28	2	241499471	241503431	11	4	52233
SYNDIG1	20	24449835	24647252	398	38	47981
HS3ST2	16	22825498	22927659	248	38	47343
PPM1J	1	113252616	113258099	9	4	50044
FSD1	19	4304597	4323840	47	8	42946
SREK1IP1	5	64013971	64064512	63	6	50174
ZCCHC4	4	25314407	25372005	140	16	49755

DALRD3	3	49052921	49059726	4	2	48807
TRPM2	21	45770046	45862964	158	11	47051
ZNF507	19	32836500	32878573	78	12	48151
MTIF3	13	28009776	28024739	52	7	49935
CRNN	1	152381719	152386739	6	2	50260
SEC16B	1	177893091	177953438	227	37	49928
ZP1	11	60635035	60643166	13	4	44509
C3orf33	3	155480401	155524140	101	14	49677
TMEM121	14	105992940	105996539	2	1	37476
PRKCDBP	11	6340176	6341877	7	3	44155
CHRM1	11	62676151	62689279	24	6	47905
TSPAN31	12	58131796	58143994	11	6	45207
ACTR8	3	53901093	53916229	40	7	48980
CACNA1E	1	181382238	181777219	907	72	49873
DNAJC27	2	25166505	25194963	44	8	50785
NRAP	10	115348475	115423886	261	20	51240
SNAP23	15	42783431	42837547	72	7	49101
MDK	11	46402306	46405375	3	1	41415
TRIM55	8	67039131	67087720	89	8	47461
CDH16	16	66942025	66952887	11	3	46592
CDK8	13	26828276	26979375	251	13	48286
ELMOD1	11	107461817	107537505	196	31	46649
GSK3B	3	119540170	119813264	363	20	49367
TICAM1	19	4815944	4831716	43	9	49278
PAK4	19	39616410	39673456	119	11	51163
OPN1SW	7	128412545	128415844	10	3	47979
TRIM49B	11	49050504	49059579	16	2	47715
PSD3	8	18384811	18942240	2397	135	49627
SLC5A7	2	108602979	108630450	66	19	47367
RP11-650K	12	104235229	104238442	13	4	52138
PPP1R16B	20	37434348	37551667	258	33	50133
SIRPG	20	1609798	1638425	99	14	52263
SPRED2	2	65537985	65659771	326	21	50659
PAPL	19	39574553	39602133	90	9	52471
DNAH9	17	11501748	11873065	728	66	48786
TRPV5	7	142605267	142630905	68	6	41936
C2CD5	12	22601517	22697480	123	3	47905
ADCY2	5	7396321	7830194	928	69	49145
C2CD4A	15	62359176	62363116	5	2	52137
AL136218.1	13	50007495	50020554	25	6	51800
MYH14	19	50691443	50813802	493	57	46728
EPDR1	7	37723446	37991543	934	53	50653
HSF5	17	56497528	56565745	77	11	48968
ATIC	2	216176540	216214487	115	12	51462
ZNF142	2	219502639	219524378	32	4	47609
GC	4	72607410	72669758	131	17	48952
ATG9A	2	220074494	220094439	22	3	41645
PTGIR	19	47123725	47128375	6	1	47831
MRPL50	9	104149915	104160896	23	7	49250
TSPAN14	10	82213922	82292879	162	24	50983
DDX17	22	38879445	38903665	18	6	43789

KLF4	9	110247133	110252763	3	1	43234
GDF5	20	34021145	34042568	32	7	47398
OR2A12	7	143792141	143793186	2	1	51986
CHST8	19	34112861	34264414	450	58	46575
UQCRH	1	46769303	46782448	17	6	47410
USP54	10	75257296	75385711	153	4	49464
ANXA13	8	124693034	124749647	167	25	50937
CDRT15	17	14138990	14140179	1	1	40211
RAB11FIP2	10	119764427	119806114	38	8	42781
UBAP1	9	34179003	34252521	139	14	51151
TM6SF2	19	19375173	19384200	21	4	46958
FOXK2	17	80477589	80602538	435	43	50267
EXO5	1	40974413	40982228	24	6	49551
KIAA1671	22	25348697	25593415	537	44	49469
SFRP1	8	41119481	41167016	101	13	48086
DERL3	22	24176690	24181315	13	3	50819
GPD2	2	157291802	157470247	308	18	45249
YEATS4	12	69753483	69784576	105	11	50102
TBC1D15	12	72233487	72320629	154	12	50435
TMA7	3	48481667	48485616	6	1	53283
POU2F2	19	42590263	42700737	93	4	51318
SDF4	1	1152288	1167411	71	2	47383
MAP1A	15	43803156	43823818	18	4	46582
CDC42BPA	1	227177566	227506175	1508	20	53722
OR52K2	11	4470525	4471591	3	1	40085
WDR78	1	67278568	67390570	203	25	49148
COMTD1	10	76993727	76995788	2	1	44928
AGAP2-AS1	12	58120054	58122139	1	1	56048
SLC13A3	20	45186463	45304714	244	44	46452
FNIP1	5	130977407	131132710	168	9	46165
CNP	17	40118759	40129749	14	4	46577
GCNT3	15	59887074	59932438	154	21	47170
PAX1	20	21686297	21696620	4	2	42709
ARRDC1	9	140500106	140509812	15	3	48424
EDF1	9	139756571	139760738	3	1	41545
ZNF440	19	11925099	11946016	65	3	52888
ZNF521	18	22641890	22932154	575	56	48314
TARM1	19	54573149	54584634	46	7	45530
RAD21	8	117858174	117887105	62	6	44833
IL10RA	11	117857063	117872196	37	7	48372
RANBP3	19	5916150	5978153	68	10	47755
MAGEF1	3	184428156	184429836	3	1	43567
USP34	2	61414598	61697904	528	21	51845
PLEKHA5	12	19282648	19529334	578	28	46751
AAAS	12	53701240	53718648	10	4	43025
ZNF165	6	28048753	28057341	21	5	49623
LYRM4	6	5102827	5261172	516	32	50907
TMCO2	1	40711619	40717363	6	4	45294
AP001579.	21	46492796	46492927	1	1	52917
FAM131A	3	184053714	184064063	20	7	46341
NTNG1	1	107682629	108026080	654	58	49088

CCDC121	2	27848506	27851879	4	2	42659
TMEM18	2	667335	677439	23	4	49106
CYP7A1	8	59402737	59412795	26	6	45951
CTC-432M1	5	130761584	131132676	415	11	46419
CKLF	16	66586466	66600154	22	3	49056
AL354808.1	13	20268547	20269240	2	1	51636
RNF213	17	78234665	78372586	347	38	47611
RD3	1	211649864	211666259	46	11	49842
RP11-934B	14	24801516	24806588	10	3	47291
LRPAP1	4	3508103	3534286	130	16	48644
TNNC1	3	52485118	52488086	2	1	45263
CTD-2228K	5	466239	473213	23	5	50653
SGCG	13	23755091	23899304	894	60	52300
PDCL2	4	56422692	56458379	113	10	53314
PRPF39	14	45553302	45585485	32	2	46356
HNMT	2	138721590	138773930	90	6	50366
ARV1	1	231114727	231136341	59	8	52206
KIR3DL3	19	55235984	55248003	8	3	38597
MBIP	14	36767770	36789882	29	3	45362
AQP1	7	30893010	30965131	166	26	45227
CNOT1	16	58553855	58663790	285	12	49504
GPR162	12	6930711	6939136	12	4	37666
SLC22A3	6	160769300	160876014	204	17	48785
F2	11	46740730	46761056	46	6	50312
ALG10B	12	38710380	38717784	15	2	46451
KIRREL2	19	36346763	36358011	9	2	42305
UCN3	10	5406972	5416169	29	4	48454
RMDN2	2	38150330	38294285	384	21	50058
TRABD2B	1	48226200	48462567	540	27	48444
MTFMT	15	65294845	65321977	62	9	43851
SESTD1	2	179966419	180129517	353	20	51118
CHRN3	8	42552519	42592550	171	5	47328
RABGAP1	9	125703112	125867145	161	12	40091
CCDC178	18	30517366	31021065	819	23	49430
RHOB	2	20646835	20649200	3	2	41426
MTSS1	8	125563031	125740730	578	65	49258
TINAG	6	54172657	54254950	207	22	47549
OR52N1	11	5809084	5810046	8	3	48904
TNF	6	31543344	31546113	5	2	45533
ABLIM2	4	7967039	8160559	683	88	48338
CALML5	10	5540658	5541533	3	1	51421
RPLP2	11	809647	812880	4	2	44990
NCOA7	6	126102307	126252266	236	24	50090
TBC1D31	8	124054208	124164393	251	30	50616
KRTAP4-11	17	39273433	39274606	6	1	33479
ZNF423	16	49521435	49891830	1016	96	50688
SZT2	1	43855553	43918321	87	8	48534
LPPR4	1	99729509	99775146	104	15	46695
HBD	11	5253908	5256600	2	1	43261
PEF1	1	32095463	32110497	19	3	47970
PDE1C	7	31790793	32338941	1799	104	50058

TTC5	14	20724717	20774153	146	24	50999
ZNF623	8	144718183	144735900	46	6	47746
SLC17A6	11	22359643	22401049	95	20	48923
SPG21	15	65255362	65282648	68	8	45391
LSR	19	35739233	35758867	48	9	51704
WRAP73	1	3547331	3569325	30	7	42294
GPR27	3	71803201	71805647	1	1	33856
ARSB	5	78073032	78281910	599	32	50585
AL035588.:	6	41653964	41654127	1	1	53985
SEC63	6	108188960	108279393	126	8	46795
HOXA9	7	27202054	27210117	16	6	43767
TMEM74	8	109619079	109799844	388	28	51791
LURAP1L	9	12775020	12822130	129	22	46071
KLF6	10	3818188	3827473	16	6	45635
TMIGD2	19	4292229	4302428	35	8	43426
CD9	12	6308881	6347425	46	6	48215
STK38	6	36461669	36515247	134	8	51281
FHIT	3	59735036	61237133	5622	312	49702
ZNF337	20	25654851	25677477	36	4	47057
OR2L3	1	248223984	248224922	5	1	42923
RP11-497E	14	85994943	85995730	3	1	51842
FGFR1	8	38268656	38326352	65	12	51123
PAOX	10	135192695	135205198	37	7	40720
AOX1	2	201450591	201541787	269	27	50865
MSX2	5	174151536	174157896	13	2	43748
RBP7	1	10057264	10076078	33	4	48639
L3MBTL2	22	41601209	41627275	82	5	51533
ETHE1	19	44010871	44031396	46	8	49719
OPTC	1	203463271	203477992	44	7	44720
MIR3654	11	62327075	62359003	23	3	48734
AGTPBP1	9	88161455	88356944	511	13	41557
RPS18	6	33239787	33244287	17	4	44592
ELN	7	73442119	73484237	55	12	43520
CIITA	16	10971055	11026079	130	24	46768
MEGF11	15	66187417	66546085	984	102	47841
UCHL3	13	76123619	76180085	147	14	50460
ELF5	11	34500340	34535352	127	14	50586
FANCC	9	97861336	98079991	183	16	48608
ACTB	7	5566782	5603415	104	22	45549
IDO2	8	39792133	39873910	363	30	51971
KRTAP9-4	17	39405939	39406904	3	1	53105
DCAF11	14	24583404	24594451	17	3	49538
TBX20	7	35242042	35293758	103	6	50921
ZNF354C	5	178487416	178510538	48	9	46679
RAB8A	19	16222439	16245044	64	7	51594
CDC45	22	19466982	19508135	98	17	46192
CCDC60	12	119772517	119978852	473	53	50833
FOXM1	12	2966847	2986206	25	6	48383
PAX8	2	113973574	114036527	198	21	52304
KCTD4	13	45766988	45775175	10	2	49923
LIPA	10	90973326	91174314	445	54	46873

DDIT4	10	74033678	74035794	2	1	45215
MCHR2	6	100367786	100442123	155	20	51826
YIF1A	11	66052051	66056641	6	2	50561
TF	3	133464800	133497850	96	12	52382
FBRSL1	12	133066137	133161774	271	21	45586
GPR149	3	154055461	154147504	208	21	50334
TCF7	5	133450402	133487556	70	10	48071
RHBDD2	7	75471920	75518244	97	18	48831
NQO1	16	69740899	69760854	36	7	52109
PIWIL4	11	94277006	94354587	163	18	48126
FAM110C	2	38814	46870	11	4	40762
WDR26	1	224572845	224624735	64	5	50116
POU5F1B	8	128426535	128432311	32	6	50535
DNAJC2	7	102952921	102985320	42	9	48512
MYOT	5	137203480	137223540	15	5	46245
DGCR2	22	19023795	19109967	287	10	50812
FBXO22	15	76196200	76227609	49	6	43598
RAB35	12	120532899	120555306	62	12	44929
IFI6	1	27992572	27998729	3	1	35228
CST2	20	23804406	23807368	18	5	52704
ST8SIA2	15	92937058	93011958	185	21	49602
IQSEC3	12	175931	287626	336	46	45331
ATP5H	17	73034958	73043080	26	8	39654
PRUNE2	9	79226292	79521003	800	61	48404
HIP1	7	75162621	75368280	583	47	47010
KCNK2	1	215179118	215410436	529	22	51316
ZSCAN22	19	58838385	58853698	36	2	48796
TRAP1	16	3701640	3767598	156	22	45464
GIN51	20	25388363	25433264	93	8	49198
C4orf36	4	87797358	87857354	117	14	51756
SNX29	16	12070594	12668146	2184	105	48900
ALDOC	17	26900133	26904282	2	1	47687
AL096677.:	20	23330015	23334066	6	3	44956
OR14J1	6	29274403	29275519	4	2	47457
EBNA1BP2	1	43629846	43736607	323	24	49002
TSC22D4	7	100060982	100076902	17	3	49308
STEAP1	7	89783689	89794143	18	4	50705
TCAIM	3	44379611	44450943	118	11	51278
PRG2	11	57154267	57158130	3	2	48219
GFRA1	10	117816444	118032979	545	47	49485
C1R	12	7187513	7245203	12	5	48360
ATP5L2	22	43035809	43036607	3	1	39804
SIRPB2	20	1451386	1472233	67	9	45498
PADI2	1	17393256	17445948	220	13	50629
FOXL2	3	138663066	138665982	4	2	42617
SOX13	1	204042243	204096863	133	30	48823
CMTM2	16	66613351	66622178	18	3	49173
RPS6KA5	14	91336799	91526980	360	23	51130
CLEC4A	12	8276228	8291203	26	4	46243
HMBS	11	118955576	118964259	13	3	47150
CNPY1	7	155266901	155326557	162	40	43136

BPHL	6	3118608	3153812	60	4	47720
TREM1	6	41235664	41254457	50	11	50197
AKR7A2	1	19630459	19638640	23	8	49464
ZBTB21	21	43406940	43430496	50	9	48073
SMARCC1	3	47626762	47823596	171	8	50070
APOBEC3F	22	39436609	39449915	24	3	48790
C11orf30	11	76155967	76264069	190	21	47916
SIGLEC6	19	52022779	52035110	66	8	51907
AP1B1	22	29723669	29819168	184	22	48011
RAPGEF6	5	130759614	130970929	245	10	46580
RP11-343C	16	69369179	69385633	32	7	50007
LCE2A	1	152670840	152671918	2	1	43275
PICK1	22	38452318	38471708	32	7	44903
SDF2L1	22	21996550	21998587	3	1	39467
CCDC183	9	139690802	139702193	22	4	46788
CPSF3	2	9563697	9613230	60	5	49107
FA2H	16	74746853	74808729	194	29	49633
TTC40	10	134621896	134756327	475	32	45873
GLDN	15	51633826	51700210	275	24	47508
PDE2A	11	72287185	72385635	245	28	49448
WIPI2	7	5229819	5273457	136	20	49821
SSR3	3	156257929	156272973	45	6	52474
ARHGEF33	2	39117021	39202590	116	15	47309
OR1S1	11	57982217	57983195	7	2	49367
KRTAP26-1	21	31691452	31692607	5	2	44598
CTSA	20	44518783	44527459	16	3	45111
CAPS	19	5911718	5915888	9	3	50078
ABCC1	16	16043434	16236931	628	46	49911
PDE11A	2	178487980	178973066	1512	41	50959
MRPL45	17	36452989	36479101	22	3	44317
GCNT4	5	74323289	74326724	10	3	47476
NIPAL2	8	99202061	99306621	180	26	48851
CPSF4	7	99036545	99054994	32	4	49649
GPR116	6	46820249	46922680	305	30	49269
ARMC1	8	66514694	66546442	96	7	50082
RAB3C	5	57878048	58155213	777	51	51354
UBE2D2	5	138906016	139008018	160	12	43717
PHYHIPL	10	60936350	61007534	81	5	45849
RNF103	2	86830516	86850989	41	7	47799
HHIPL2	1	222695602	222721445	69	6	38638
KRT8	12	53290977	53343738	147	18	49631
CTD-2510F	17	57274927	57292587	21	4	48145
FBXO5	6	153291664	153304714	36	5	53252
GRHL3	1	24645812	24690972	84	17	46341
KBTBD7	13	41763969	41768702	5	2	37483
CTB-78H18	5	171200656	171201743	6	2	50955
PDGFC	4	157681606	157892546	272	20	49627
TTC1	5	159436120	159492550	116	12	50333
AC114494.	1	31902192	31902614	2	1	50081
FIG4	6	110012499	110146631	237	26	48827
OR10G3	14	22037934	22038875	8	4	46960

PALM	19	708953	748329	93	20	36309
SH2D6	2	85645844	85664152	45	10	49508
ZNF572	8	125985540	125991631	9	2	45857
UMODL1	21	43483068	43563563	395	48	49246
CEP104	1	3728645	3773778	245	17	45173
IL22RA1	1	24446261	24469611	60	11	48895
ZNF555	19	2841433	2860482	48	7	50947
NUTM2G	9	99690592	99702535	1	1	31986
RUNX1	21	36160098	37376965	3149	161	49461
ORMDL2	12	56211703	56215663	2	1	48023
TMEM181	6	158957468	159056460	285	20	51258
CPT1C	19	50194155	50216988	48	7	47131
GCOM1	15	57884106	58006943	304	33	48339
IFIT1	10	91152303	91163745	26	7	46088
ALKBH3	11	43902361	43941816	128	13	50905
PLCB4	20	9049410	9461889	765	55	48948
TNFSF15	9	117546915	117568406	29	9	47506
C4BPA	1	207277607	207318317	97	15	44984
SEZ6L	22	26565440	26779562	706	68	49933
KRTAP4-8	17	39253233	39254393	10	2	44303
TYW3	1	75198836	75232362	103	13	45108
FRMD5	15	44162962	44487450	392	16	40895
NHLRC1	6	18120718	18122851	6	2	49295
SIRT2	19	39369197	39390502	33	9	43517
CASD1	7	94138531	94186331	77	9	51164
METTL20	12	31800094	31826048	59	15	49505
G6PC	17	41052814	41065386	23	4	50236
CAT	11	34460472	34493609	71	8	49288
VPREB1	22	22599087	22599927	3	2	39055
ZNF282	7	148892577	148923339	96	13	50304
NGRN	15	90808891	90816463	4	2	52199
PIK3R2	19	18263928	18281350	31	6	46637
PIGG	4	492989	533985	119	5	50229
SCRN3	2	175260458	175294303	95	6	53189
ACOT6	14	74077649	74086592	21	7	47649
MRPL2	6	43021767	43027544	13	3	47322
PRAM1	19	8554940	8567996	22	4	46595
TRIP6	7	100464760	100471076	15	7	45873
MCM9	6	119134605	119256327	304	14	49286
EYA1	8	72109668	72274467	365	48	48652
NUDC	1	27226729	27273353	57	7	49245
LRCH3	3	197518097	197615307	135	13	47100
DDX25	11	125773271	125793158	58	10	50748
ATPAF2	17	17880723	17942523	76	6	46322
SMG6	17	1963133	2207065	552	20	49439
MKL2	16	14165178	14360630	376	8	45982
HEMGN	9	100689073	100707138	26	3	53616
MRO	18	48324574	48351772	97	20	50706
ODC1	2	10580094	10588630	15	4	45582
IL36A	2	113763038	113765621	6	2	50536
CSDC2	22	41956767	41973745	28	3	46645

CROCC	1	17066768	17299474	108	9	43733
ACSBG1	15	78459810	78538030	225	40	48923
HLA-A	6	29909037	29913661	81	15	49435
EPM2AIP1	3	37027357	37034795	8	2	48741
METAP2	12	95867296	95909615	127	14	52067
ITGB3BP	1	63906441	64059392	310	12	51293
SYNE4	19	36494209	36499695	6	2	41762
SSBP2	5	80708840	81047616	609	30	47285
KCNH3	12	49932940	49952091	35	5	44346
RASAL2	1	178062864	178448644	520	17	49881
GRIA1	5	152869175	153193429	1096	62	49330
PAIP1	5	43526369	43557860	46	5	47731
DDOST	1	20978270	20988000	25	5	50136
ARL1	12	101786898	101801598	33	9	47481
C13orf35	13	113301358	113338811	109	16	49225
ZNF329	19	58637619	58666477	72	13	50582
FAM84A	2	14772810	14790933	19	3	49745
C2orf83	2	228474806	228498036	161	17	51107
ATXN7L1	7	105245514	105517050	689	95	50069
RPL39L	3	186838736	186898696	130	13	44615
PLIN3	19	4838353	4867780	118	20	46383
SF3B2	11	65818200	65836779	23	4	51412
TXNDC5	6	7881483	8026646	502	56	50050
GOT2	16	58741035	58768261	69	8	45370
DGAT2	11	75470557	75512579	35	3	48813
CKS1B	1	154947129	154951725	2	1	44177
SSH2	17	27952956	28257294	298	12	46301
LYST	1	235824341	236046940	221	13	49525
GRHL1	2	10085341	10142411	250	24	50914
CCR9	3	45927996	45944667	33	7	51091
TP53I13	17	27893070	27900175	11	4	43417
FERMT2	14	53323986	53419153	174	18	49810
SEC14L5	16	5008318	5069159	219	24	50701
T	6	166571144	166582188	47	7	51551
C10orf91	10	134257831	134262912	4	2	34366
PPP1R1C	2	182818968	182996125	354	35	47521
CELA2B	1	15792404	15817895	68	10	50612
ANTXR1	2	69240310	69476459	536	52	48446
MT1M	16	56666145	56667898	10	4	46912
TOX2	20	42543504	42698256	346	45	48224
PPP6R3	11	68228186	68382802	220	11	48825
CAPRIN2	12	30862486	30907885	118	12	51639
ORAI2	7	102073553	102097268	53	13	45898
SERPINE1	7	100770370	100782547	38	10	51159
PSMB5	14	23485752	23504439	24	5	42385
MPO	17	56347217	56358296	13	6	46596
FNDC3A	13	49550048	49783915	245	16	48066
ALDH5A1	6	24495080	24537435	161	23	48293
DIO3	14	102027688	102029789	1	1	37593
ZNF768	16	30535325	30538142	2	1	46342
MAN2C1	15	75648133	75660971	8	4	44384

TC2N	14	92246095	92333880	171	15	46445
PLEKHS1	10	115511213	115543188	91	9	52800
RPS10-NUC	6	34256547	34393825	245	12	47854
HELZ2	20	62189439	62205592	54	11	39484
KLHL1	13	70274726	70682591	1607	65	49913
UBE2S	19	55912652	55919145	9	3	43735
GMIP	19	19740285	19754476	20	6	48352
TTI2	8	33330904	33371119	114	9	49756
TMEM106C	12	48357352	48362661	14	5	48600
HTR5A-AS1	7	154858777	154863267	16	4	47625
TAS2R1	5	9629109	9712490	210	29	49008
ENKUR	10	25270908	25305089	27	6	51455
ZBTB8B	1	32930670	32962287	21	4	50985
SPEF1	20	3758151	3762095	5	2	51591
STAG1	3	136055077	136471220	527	20	48845
CBX7	22	39516172	39548679	80	9	50515
ANKIB1	7	91875548	92030698	106	8	49533
AK7	14	96858448	96955764	216	32	49390
NRG4	15	76228310	76352136	233	8	46441
KRTAP2-2	17	39210750	39211482	2	1	38281
RNF182	6	13924677	13980533	102	12	49799
COPG1	3	128968449	128996614	39	3	47668
SYNE2	14	64319683	64693165	861	42	48640
ATP6V1G3	1	198492352	198510075	31	8	47828
RAB8B	15	63481668	63559981	159	21	48001
EDN3	20	57875482	57901047	37	9	43704
ELL2	5	95220802	95297775	136	5	48445
MFSD6	2	191273081	191373931	206	18	51594
C10orf10	10	45466429	45474258	23	3	50512
RHNO1	12	2985424	2998626	25	2	53124
SEC24C	10	75504120	75531919	31	4	47632
GFI1	1	92940319	92952433	19	4	50286
FAH	15	80444832	80479288	119	16	51989
B3GALTL	13	31774073	31906413	247	20	49450
MCOLN3	1	85483765	85514182	53	10	50736
APOBEC1	12	7801996	7818499	62	12	49086
FBXL3	13	77566740	77601330	85	8	48937
OR10S1	11	123847368	123848488	5	2	47760
IDNK	9	86237964	86259045	50	9	50858
KLHDC7B	22	50986462	50989451	11	5	45733
PDE3A	12	20522179	20837315	971	74	49251
C19orf47	19	40825443	40854434	59	9	50599
SLC22A12	11	64358113	64369820	35	4	46327
PARK2	6	161768452	163148803	4396	216	49466
PLEKHA2	8	38758753	38831428	179	37	48609
ADIG	20	37209838	37217106	8	3	43390
CRMP1	4	5749811	5894785	546	68	49482
SCN5A	3	38589548	38691164	271	42	48268
SGSM2	17	2240792	2284352	139	21	46732
C4orf3	4	120218207	120225600	16	6	51032
RC3H1	1	173900352	173991435	143	9	48559

SCAMP4	19	1905213	1926016	58	8	39805
KCNH5	14	63173287	63568755	972	56	50503
CREBZF	11	85370752	85393951	36	8	50343
FBXL5	4	15606162	15683302	212	17	52706
HMGXB3	5	149379884	149432386	117	8	49604
DHX57	2	39024871	39103075	139	10	49269
NSMCE2	8	126103921	126379362	523	36	49261
GSX1	13	28366780	28368905	2	1	41477
SRMS	20	62172163	62178857	13	4	35678
B9D2	19	41860326	41870078	21	4	47207
C12orf42	12	103631369	103889749	517	24	50239
LPO	17	56295909	56345879	73	15	49605
CCDC70	13	52436117	52440366	4	2	50452
CACNG4	17	64961026	65029514	173	29	44552
NAGPA	16	5074845	5084142	27	6	49877
PARP2	14	20811741	20826064	48	6	47883
RNF208	9	140114707	140116033	1	1	36569
STIL	1	47715811	47779819	133	8	51714
CHCHD6	3	126423063	126679249	546	23	44245
NOS1	12	117645947	117889975	602	52	49453
DIP2C	10	320130	735683	718	41	45103
SKI	1	2160134	2241558	197	32	42571
GNG12	1	68167149	68299150	268	23	51317
CDK20	9	90581356	90589668	16	4	46874
DPY19L2	12	63952693	64062719	338	22	48193
OR51L1	11	5020213	5021160	6	2	49388
ADAMTS1	21	28208066	28217728	29	4	35965
EFCAB11	14	90261013	90421121	410	32	44682
ZNF215	11	6947635	7005863	142	13	51683
ZNF318	6	43274872	43337216	77	11	47546
SGPL1	10	72575717	72640930	174	20	51187
OR13J1	9	35869375	35870461	2	1	55565
GPR25	1	200842083	200843306	3	2	49803
C4B	6	31982539	32003195	1	1	46435
LTA	6	31539831	31542101	11	4	46859
C6orf48	6	31802385	31807541	18	9	45261
RAET1G	6	150238014	150244257	14	3	50521
VASH1	14	77228532	77249354	52	13	49043
ACYP1	14	75519924	75536186	18	2	49941
TTC9C	11	62495541	62507765	16	3	48381
GMNC	3	190570666	190610218	92	18	44073
ZBED5	11	10833621	10880343	122	12	48097
SLC44A2	19	10713133	10755235	100	11	50368
AL627171.1	14	50300810	50311552	9	2	46739
CLTCL1	22	19166986	19279239	264	11	49729
CTIF	18	46065417	46389588	946	110	48333
QKI	6	163835032	163999628	305	16	49104
NCEH1	3	172348039	172429008	213	36	50148
AC007557.1	2	217735495	217736362	2	1	52608
STX6	1	180941861	180992047	72	9	50868
FAM214B	9	35104109	35116338	19	7	47077

CCDC64	12	120427673	120532298	176	14	45448
ASCL1	12	103351464	103354294	3	2	48687
KRTAP10-1	21	46057273	46058370	6	2	43625
WNT2B	1	113009163	113072787	134	24	49208
CYTH4	22	37678068	37711382	87	12	48581
SYK	9	93564069	93660831	390	44	50402
CEACAM4	19	42125344	42133442	35	7	48592
DDAH2	6	31694815	31698394	8	3	47867
ALS2CL	3	46710487	46735194	78	11	48796
VAMP2	17	8062467	8066864	7	2	44494
PRDM8	4	81105033	81125483	49	7	48710
KCTD1	18	24034874	24237365	510	66	48536
PTCD1	7	99014362	99063787	75	7	47819
ARL15	5	53179775	53606412	1217	82	49335
DDHD1	14	53510686	53620000	149	9	48055
PPP1R17	7	31726329	31748069	58	11	44326
RNF151	16	2016824	2018976	8	1	37886
ASNS	7	97481430	97501854	58	11	51266
IFNA8	9	21409146	21410184	1	1	53086
PFN1	17	4848947	4852356	10	4	45229
CITED2	6	139693393	139695757	4	2	43641
TRA2B	3	185633694	185655924	27	7	48607
TPI1	12	6976283	6980112	6	1	46498
HEXIM1	17	43224684	43229468	5	2	52723
ZNF862	7	149535456	149564568	43	8	49582
CRTC1	19	18794487	18893004	202	23	49166
GNA15	19	3136191	3163767	158	21	43977
GTF2H5	6	158589384	158620376	60	8	49583
ZNF221	19	44455375	44471861	40	8	49342
MTNR1A	4	187454809	187476721	66	12	47904
ZNF35	3	44690219	44702283	9	5	49333
GOLPH3	5	32124810	32174456	98	11	44722
DEPDC1B	5	59892739	59996017	116	11	45662
VN1R2	19	53761545	53765090	14	3	52986
OR2J2	6	29141311	29142351	6	2	43402
OR52J3	11	5067756	5068691	6	2	52374
TAF13	1	109605108	109618624	40	9	49459
TTC36	11	118398187	118401912	1	1	38563
SLC25A10	17	79670401	79687569	62	7	50125
NOP56	20	2632791	2639039	21	6	51030
ATP6V1G1	9	117350026	117360653	21	7	48500
JAG2	14	105607318	105635161	45	6	41929
C15orf62	15	41062159	41064643	2	1	41934
AKR7A3	1	19609052	19615744	25	4	51954
PREPL	2	44543420	44589001	110	11	49706
SH3BP5	3	15296360	15382875	213	36	49235
ORC1	1	52838501	52870131	25	6	46998
TPSAB1	16	1290697	1292555	1	1	30909
GCG	2	162999392	163008914	4	1	33276
IFIH1	2	163123589	163175213	13	6	41831
ZBTB37	1	173837220	173872687	78	8	51817

FANCI	15	89787180	89860492	110	7	49816
FLVCR2	14	76044960	76129557	155	24	46270
PROB1	5	138727635	138730885	3	1	46523
POLB	8	42195972	42229326	50	6	42644
C9	5	39284364	39424970	329	29	50227
TNFAIP8L1	19	4639530	4655580	42	9	43667
GOLM1	9	88641061	88715088	180	12	48122
BCKDK	16	31117428	31124110	6	2	50030
PCBP3	21	47063608	47362368	591	19	51024
DGKE	17	54911460	54946036	70	4	52447
HHLA2	3	108015376	108097132	281	19	48299
Sep-05	22	19701987	19712295	1	1	36556
GP1BB	22	19710468	19712294	1	1	36556
CYP4F12	19	15783567	15807984	125	8	51609
TMED6	16	69377151	69385712	16	6	48805
EIF2S2	20	32676104	32700138	20	5	48937
MKI67	10	129894923	129924649	92	16	50870
ARL11	13	50202435	50208008	13	6	46565
UCHL5	1	192981380	193029237	35	7	48115
C12orf77	12	25146358	25150453	10	5	48942
SCYL1	11	65292548	65306175	16	6	47277
ASB6	9	132399171	132404444	10	4	48336
PRM3	16	11367144	11367452	2	1	45328
PSMF1	20	1093906	1160596	136	25	48173
AC022532.	10	72194585	72196314	3	2	45760
C8orf37	8	96257147	96281429	113	15	48953
CHTOP	1	153606525	153618782	25	4	46866
CTD-3105H	19	12490003	12512088	27	4	45987
ZNF558	19	8920380	8943004	60	8	51430
SHISA6	17	11144580	11467380	994	97	50305
UGGT2	13	96453834	96705736	401	19	50836
TMEM63A	1	226033237	226070069	102	13	49405
TAS2R16	7	122634759	122635754	2	1	45762
OAS2	12	113416200	113449528	76	9	49429
NCF4	22	37257030	37274057	50	8	45339
MPPE1	18	11882621	11909222	79	15	43971
FGD6	12	95470525	95611258	387	26	51813
CACNG5	17	64831235	64881603	180	37	51174
SPDL1	5	169010638	169031782	65	7	51596
TAL1	1	47681962	47697892	28	6	47707
TOMM40L	1	161195793	161200408	4	2	43946
KIF18B	17	43002077	43025082	63	15	49722
PCM1	8	17780349	17885478	424	21	46584
REXO4	9	136271186	136283164	54	4	52524
SPATA5	4	123844229	124240605	1119	24	48648
STC1	8	23699428	23712320	26	5	51099
GPR98	5	89825161	90460038	1304	57	47545
IL8	4	74606223	74609433	3	1	47102
RGS4	1	163038565	163046592	16	6	49308
OR51F2	11	4842551	4843686	3	2	48617
AP2B1	17	33905065	34053436	382	20	51418

KCTD14	11	77726761	77757237	113	12	51998
LRRC8E	19	7953390	7966901	37	6	48321
ART1	11	3666358	3685646	52	9	46609
SPATA2L	16	89762751	89768113	13	4	45580
KLK8	19	51499263	51505967	18	3	48373
KLHL7	7	23145353	23217533	193	10	49283
RPRD1B	20	36661948	36720768	95	7	49942
RLTPR	16	67678822	67691472	15	3	47203
CRYBA1	17	27573881	27581512	15	5	50948
DHRS4L2	14	24439148	24475617	67	12	39238
MTCH1	6	36935917	36954074	77	9	52345
POLR3C	1	145592605	145611025	13	2	49861
GCM2	6	10873456	10882174	17	6	48390
RUFY1	5	178977559	179037027	156	17	52104
C15orf61	15	67813406	67819628	9	2	51924
NBAS	2	15307032	15701454	827	21	49276
RP11-351N	15	81188532	81202118	11	4	40054
GSTM2	1	110210644	110252171	56	16	41047
LINC00908	18	74240612	74322925	326	50	46216
SDHAF1	19	36486090	36487220	2	1	44368
TRIM72	16	31225342	31236510	4	1	45331
TMPRSS2	21	42836478	42903043	250	30	50918
PCYT2	17	79858841	79869340	1	1	34337
PRRC2A	6	31588497	31605548	59	13	47104
RP11-834C	12	54379629	54428672	62	10	48511
ST3GAL3	1	44171495	44396831	443	22	49904
CNTNAP2	7	145813453	148118090	7053	257	50092
AC005481..	7	157406715	157411457	13	4	51544
IGSF8	1	160061130	160068733	12	3	51927
FAM219A	9	34398182	34458568	137	18	52083
TRIM44	11	35684353	35829775	133	20	48136
KIF24	9	34252379	34329198	141	14	50530
RNASE4	14	21152259	21168761	73	13	47676
LPA	6	160952515	161087407	207	16	51347
SMIM7	19	16741562	16771253	63	9	46344
SATB2	2	200134223	200335989	220	16	47820
PRKCQ	10	6469105	6622263	383	51	48037
LAIR1	19	54865362	54882165	25	6	41253
UTP11L	1	38474930	38490496	20	7	44006
SUPT3H	6	44777054	45345690	1541	26	49000
NBPF6	1	108918421	109013624	4	1	47980
C8orf56	8	104145191	104153703	21	6	52214
ZFC3H1	12	72003252	72061505	79	7	49685
AP3S1	5	115177178	115249778	127	17	48464
C6orf141	6	49518113	49529620	49	6	44231
CALML6	1	1846266	1848735	9	3	44994
AHCYL2	7	128864864	129070052	370	22	49060
OFCC1	6	9596343	10211841	1643	89	51861
OR51I1	11	5461800	5462744	4	2	51187
PIGC	1	172339329	172413230	144	19	49305
LYPD5	19	44300081	44331358	105	16	51226

TP53RK	20	45313004	45318418	11	5	43378
MKKS	20	10381657	10414870	109	7	51773
PAG1	8	81880045	82024303	267	33	46727
SPATA6	1	48761044	48937845	279	23	50641
ZNF451	6	56951642	57035105	85	6	50894
RRAGC	1	39303870	39325495	48	11	48343
DNAJC3	13	96329393	96447243	104	17	48747
MYO9B	19	17186591	17325346	462	48	47993
HCK	20	30639991	30689659	69	8	47093
MRPL17	11	6702013	6704632	13	2	46900
BCAS1	20	52553316	52687304	533	38	50153
KLF7	2	207938861	208031991	270	33	49630
THUMPD2	2	39963200	40006407	102	10	48471
C1orf106	1	200860176	200884863	58	11	50833
DTX3	12	57998405	58003587	5	2	48134
SEPN1	1	26126667	26144713	40	4	48611
DRG2	17	17991200	18011285	33	5	47475
ATP5G3	2	176040986	176049335	30	5	49402
SDK1	7	3341080	4308632	3358	96	50033
INCENP	11	61891445	61920635	119	9	43457
OOEP	6	74078278	74104856	42	9	51882
MRPL1	4	78783674	78873944	194	15	51001
IRX2	5	2745959	2752969	8	3	36497
ZNF726	19	24097678	24127961	61	9	44496
SMCHD1	18	2655737	2805015	443	17	50604
IL12RB2	1	67773047	67862583	214	18	48596
FAU	11	64888100	64889945	1	1	42546
MROH2A	2	234684370	234742069	208	41	46116
RP11-215A	4	187347700	187476464	528	52	47447
AC006538	19	2717767	2740046	56	9	41170
TLL1	4	166794410	167025047	478	53	48625
HYKK	15	78799906	78829714	61	5	47831
KDM2A	11	66886740	67025558	92	12	38509
METRNL	17	81037567	81052864	39	11	37616
BBS9	7	33168856	33645680	1210	45	50676
PNISR	6	99845927	99873207	43	7	51788
PFDN6	6	33257079	33266178	5	2	44359
TXNL1	18	54264439	54318831	109	10	45703
DNPH1	6	43193367	43197222	5	2	51758
RAX2	19	3769087	3772233	8	2	47585
SURF6	9	136197552	136203235	9	3	51100
FNBP1	9	132649466	132805473	444	27	46933
LRCH1	13	47127303	47327175	480	29	50736
NACAD	7	45120037	45128513	22	4	49937
COX5A	15	75212132	75230509	29	5	45622
RP11-447L	3	195975101	196045093	146	11	51282
EFTUD2	17	42927311	42977030	139	16	52068
EFEMP2	11	65633912	65641063	10	2	45671
RP11-618P	19	34887220	34900269	21	6	47823
LEPROT	1	65886270	65901690	40	10	46859
YES1	18	721588	812547	209	18	50062

STAC2	17	37366789	37382125	23	6	43706
C19orf67	19	14192431	14196687	4	1	38724
IGSF21	1	18434240	18704977	830	95	48711
GATC	12	120884241	120899389	39	8	49915
C6orf1	6	34214157	34217247	8	3	43625
CLN3	16	28477983	28506896	19	2	47849
ASTL	2	96789589	96804175	16	3	51114
LXN	3	158363611	158390482	89	7	53449
YWHAZ	8	101928753	101965616	75	7	50562
LAMA1	18	6941743	7117813	459	70	46951
AP001094.	18	8336437	8337038	1	1	55273
ITGA7	12	56078352	56109827	44	5	47276
MYOC	1	171604557	171621823	68	11	51387
EVL	14	100437786	100610573	419	27	49326
FRMD6	14	51955818	52197445	733	80	49814
C1orf85	1	156259880	156265463	9	2	51837
DNAH2	17	7620672	7737062	218	27	47850
PIM1	6	37137979	37143202	3	1	51991
SPATA19	11	133710526	133715433	21	3	46469
EAF2	3	121554030	121605373	136	10	53177
TES	7	115850547	115898837	140	10	52994
OTOG	11	17568920	17668697	201	20	47196
SRC	20	35973088	36034453	113	17	45788
GFPT1	2	69546905	69614382	98	6	49433
DTX2	7	76090993	76135312	26	5	49430
LINGO4	1	151772740	151778630	6	2	53155
CSGALNAC	8	19261672	19615540	1338	81	49383
NXNL1	19	17566234	17571763	19	4	44850
WWTR1	3	149235022	149454501	557	51	48089
PKD2	4	88928820	88998929	139	22	46373
LDHAL6A	11	18477371	18501147	50	11	49193
LCN12	9	139844003	139849949	22	5	43505
PDCD6IP	3	33839844	33911194	214	11	51010
SERPINC1	1	173872947	173886516	24	4	51605
COQ10A	12	56660642	56664750	4	2	47571
ABHD4	14	23067146	23081265	47	11	49437
LTC4S	5	179220981	179223648	4	2	48431
CNTNAP4	16	76311176	76593135	1044	44	49659
TMPRSS15	21	19641433	19858197	543	63	48740
UBE4B	1	10092890	10241297	239	14	46751
ABCA3	16	2325882	2390747	67	9	49710
NBEAL1	2	203879602	204091101	250	20	47750
AQP1	7	30893010	30963427	162	25	45313
OR3A1	17	3194929	3195876	1	1	49983
ATF3	1	212738676	212794119	194	32	48225
JAG1	20	10618332	10654694	102	22	49067
FAM47E-ST	4	77172886	77232752	215	17	51804
WDR46	6	33246885	33257304	20	6	49802
UBXN2B	8	59323823	59364060	85	13	51706
NSUN3	3	93781760	93847389	44	11	46575
YBX2	17	7191571	7197934	7	1	44739

TTPAL	20	43104526	43123244	24	5	49838
GLYATL2	11	58601542	58671688	229	15	40218
RAB11B	19	8454865	8469318	46	8	48859
PSMD11	17	30771279	30810336	26	5	46820
CCR7	17	38710021	38721724	11	7	36349
GPSM1	9	139221932	139254057	61	9	40861
TMEM145	19	42817477	42829214	7	1	47216
DPCD	10	103330317	103369425	67	8	49271
TRRAP	7	98475556	98610866	219	13	46269
ITFG1	16	47188298	47498060	183	9	42813
ERAP1	5	96096521	96143803	224	19	53205
PUM1	1	31404353	31538838	214	16	48543
IGSF10	3	151143172	151176497	65	9	47693
B3GNT8	19	41931264	41934635	6	2	45583
RPS10	6	34385231	34393902	12	3	45047
HAND1	5	153854532	153857824	10	6	51283
LRRC59	17	48452420	48474914	40	7	47375
ESM1	5	54273692	54318499	114	13	50035
ZMAT3	3	178735011	178790067	81	11	52497
UTP3	4	71554196	71556267	2	1	33043
TANK	2	161993419	162092732	135	10	47794
OLFM1	9	137967268	138013025	173	29	50035
PTPN7	1	202116141	202130716	35	12	39401
VPS4A	16	69345259	69358949	35	7	50293
DNAAF3	19	55670031	55678090	27	6	43217
KIAA1755	20	36838890	36889174	128	16	46462
PCDH9	13	66876967	67804468	1905	114	50182
TEAD2	19	49843852	49865714	33	3	51067
AASDH	4	57204456	57253666	122	14	50830
HCAR3	12	123199303	123201439	9	3	46561
RXFP2	13	32313674	32377009	166	15	51918
CD200R1L	3	112534556	112565703	117	15	50470
LRRN4	20	6021424	6034695	39	6	49295
CABP4	11	67219877	67226699	8	3	47258
ASPRV1	2	70187226	70189397	4	2	38660
OOSP2	11	59807748	59815517	13	5	50419
GSC2	22	19136089	19137796	3	1	49621
APBA2	15	29129629	29410518	432	15	44978
KCNJ5	11	128761251	128790930	100	15	48046
GALNT15	3	16216156	16273499	184	28	49808
FAM47E-ST	4	77172874	77232282	213	17	51765
MUC16	19	8959520	9092018	415	35	49032
YY1AP1	1	155629237	155658791	21	6	47500
CHAT	10	50817141	50901925	189	29	46531
TCEB3B	18	44558943	44561988	12	4	48301
RASGEF1A	10	43689983	43762367	219	22	51834
VRTN	14	74769772	74826711	96	16	42425
ANKZF1	2	220094479	220101391	13	3	47435
TDRD7	9	100174232	100258407	138	12	48890
ACBD4	17	43209967	43221548	15	5	50436
GARS	7	30634297	30673649	75	10	46348

ROM1	11	62379194	62382592	5	1	52705
SNTG1	8	50822349	51706678	2250	50	49650
MELK	9	36572859	36677678	134	7	49385
CLGN	4	141309609	141349122	79	8	49834
BDP1	5	70751442	70863649	182	8	52288
IHH	2	219919142	219925189	10	2	48838
TXNDC11	16	11772936	11836734	128	11	49794
NTSR1	20	61340189	61394123	158	21	44351
FUOM	10	135168658	135171529	7	1	34231
ARPC4	3	9834179	9849410	24	6	50165
SPATA4	4	177105789	177116822	31	9	49416
PIDD	11	799179	809753	26	4	47159
MRPL13	8	121393000	121457642	81	8	47334
KRTAP4-16	17	39257754	39258461	4	2	39027
ST6GAL2	2	107418056	107503564	264	17	49772
KCNN4	19	44270685	44285409	48	13	48242
HNRNPU	1	245014468	245027844	9	2	46082
FAM174B	15	93160673	93353114	633	39	49350
SNX6	14	35030300	35099389	146	13	49955
LHX4	1	180199421	180249380	184	33	48492
SLC1A5	19	47278140	47291851	35	8	46634
KIAA0020	9	2720469	2844241	287	34	48989
SNTA1	20	31995761	32031698	41	5	50154
LYRM9	17	26205340	26221778	13	3	50529
GPM6A	4	176554085	176923815	980	77	48965
ZNF556	19	2867333	2878515	24	6	41269
POLR2K	8	101162812	101166230	6	2	50132
UTS2B	3	190984957	191048325	268	18	50301
PTK7	6	43044006	43129457	158	23	48277
CRISP2	6	49660073	49681274	51	11	52328
PARK7	1	8014351	8045565	52	8	48511
NDUFA2	5	140018325	140027370	18	3	52944
TMIGD1	17	28643351	28661077	26	5	49328
ZNF93	19	20011722	20046384	75	10	44650
RNF32	7	156432975	156469824	75	8	48828
VPS13A	9	79792269	80036457	550	19	51680
METTL2A	17	60501228	60527454	16	4	41745
ZNF484	9	95607874	95640304	62	8	48925
RHBDF1	16	108058	126354	30	5	43669
C1orf220	1	178511887	178518024	25	4	49309
RPS8	1	45240923	45244451	4	2	50326
NAPRT1	8	144656955	144660819	16	5	47084
PTPLAD1	15	65822756	65870687	86	6	47432
CIRH1A	16	69165194	69265033	155	18	48561
CCR4	3	32993066	32997841	7	2	42723
HAUS3	4	2229191	2243891	31	4	47568
HIST1H2BE	6	26183958	26184454	2	1	50682
RANGRF	17	8191815	8193410	4	1	39591
KLHL2	4	166128770	166244308	231	18	48286
SNN	16	11762270	11773015	31	4	50876
BCR	22	23521891	23660224	338	26	50017

ZSWIM3	20	44486256	44507761	62	7	49953
ACSM5	16	20420856	20452658	150	8	44901
RP11-96O2	15	45879549	45968512	220	24	51239
LRRC3C	17	38097727	38101000	7	3	50645
DIEXF	1	210001352	210030910	95	10	51603
MTURN	7	30174426	30202378	91	15	49557
NTNG2	9	135037334	135119921	153	21	46792
C8orf4	8	40010989	40012821	2	1	51638
NR4A2	2	157180944	157198860	12	4	46487
NTRK3	15	88418230	88799999	750	60	49181
HERPUD1	16	56965960	56977798	29	5	48685
CCT2	12	69979114	69995350	44	6	53491
VAPB	20	56964178	57026157	147	15	53685
DYRK2	12	68042118	68059186	23	5	51328
AMMECR1	2	128619204	128643496	32	5	49951
URM1	9	131133598	131153015	24	5	43211
GAS2L1	22	29702572	29708774	11	4	50369
MRPL27	17	48445218	48450575	10	3	47736
TBATA	10	72530995	72545157	65	17	49700
RECQL	12	21621845	21654603	109	17	49245
EXOSC10	1	11126675	11159938	81	4	42395
NLRP11	19	56296770	56348166	251	42	46729
TBX4	17	59529765	59562471	67	13	47899
HLTF	3	148747914	148804341	100	14	51410
ZSCAN23	6	28399707	28411279	28	4	53963
TAS2R38	7	141672431	141673573	2	1	42347
CS	12	56665483	56694176	34	4	49608
OR6S1	14	21108855	21109850	5	1	49829
BSND	1	55464606	55476556	25	4	50164
RLN2	9	5299868	5304969	6	2	52962
KRTAP5-10	11	71276609	71279980	17	3	47975
P2RX7	12	121570622	121623876	247	27	51420
GFRA4	20	3639939	3644046	16	5	51493
PHLPP1	18	60382672	60647666	397	26	50245
GFM1	3	158362067	158410364	161	8	53826
ENTPD7	10	101419263	101465997	69	6	52517
CRY2	11	45868669	45904798	61	12	48891
ANO9	11	417933	442011	56	8	42392
SOX1	13	112721913	112726020	4	2	41361
BMP2	20	6748311	6760927	29	8	45897
TMEM41A	3	185194284	185216845	17	3	50546
ZNF708	19	21473962	21512227	83	7	48857
GLIPR1L2	12	75784850	75826468	122	6	53506
RAVER1	19	10426888	10444316	53	10	50666
C5orf64	5	60933535	61047590	342	28	50419
PLCB3	11	64018995	64036622	23	7	47239
DKK4	8	42231586	42234750	7	2	41527
VN1R1	19	57966542	57967854	2	1	55857
LEMD2	6	33738979	33756913	64	8	52628
SNAPC1	14	62229075	62263146	108	8	53104
C10orf105	10	73471458	73497581	52	10	43993

C5orf46	5	147260289	147286101	80	10	48302
AC037459.	8	22446787	22459597	20	4	45870
PALB2	16	23614488	23652631	86	6	50250
C16orf92	16	30034655	30039057	4	2	45607
ALKBH1	14	78138747	78174363	133	17	52681
ZNF619	3	40518604	40531727	11	2	49984
BATF2	11	64755415	64764517	17	6	43750
CRYGB	2	209007297	209010892	17	3	48766
NUDT17	1	145586115	145589439	2	1	44277
CNTN2	1	205012325	205047627	117	14	46041
TNK2	3	195590235	195638816	110	18	44366
ARHGEF35	7	143883176	143991230	4	2	39127
SIK1	21	44834395	44847008	45	5	47585
KRIT1	7	91828283	91875480	37	6	48572
TGFBR3L	19	7981030	7983982	1	1	42398
CAMKV	3	49895421	49907655	14	3	50617
PLEKHF2	8	96146032	96168912	67	8	52007
AL645728.	1	1510355	1511373	2	1	41178
KXD1	19	18668572	18680197	25	3	44975
RP11-343C	16	69368994	69390209	34	8	49850
ZSCAN4	19	58180303	58190520	23	4	49788
ZNF629	16	30789778	30798523	1	1	46644
COMMD4	15	75628232	75634268	6	3	45622
PWWP2B	10	134210672	134231367	65	14	42318
APIP	11	34874641	34938046	297	12	50626
LRP1	12	57522276	57607134	94	12	45699
C4orf19	4	37455563	37625117	602	56	50672
CHCHD3	7	132469629	132766848	448	18	52077
TMEM8B	9	35814448	35854844	60	9	49432
ACPT	19	51293672	51298481	20	4	42883
ABHD13	13	108870727	108886603	36	5	52541
PBX4	19	19672522	19729725	70	10	48949
RP11-58C2	16	76587314	76669520	213	42	48232
RARB	3	25215823	25639423	1520	81	50765
SYCE3	22	50989541	51001334	83	5	44107
ALKBH6	19	36500022	36505141	3	1	36773
IL15RA	10	5990855	6020150	130	24	47946
ADORA1	1	203059782	203136533	140	18	47467
SPAG5	17	26904588	26926297	11	6	47124
TRIM21	11	4406127	4414926	35	8	51705
RMDN1	8	87480486	87526586	109	9	50857
HSPB2-C11	11	111783460	111797595	13	2	44728
NT5C1B-RC	2	18736811	18770830	63	9	48343
NT5C1B	2	18737050	18770838	63	9	48343
YY1	14	100704635	100749129	83	8	51582
GPX7	1	53068044	53074723	19	5	52063
LRCH4	7	100169855	100183776	23	6	45447
ZMAT2	5	140078265	140086248	11	2	52395
DCLRE1C	10	14939358	14996431	113	19	47858
EED	11	85955586	85989855	74	11	49855
DNAJC7	17	40128451	40173394	49	8	46579

MCF2L2	3	182895831	183146566	548	45	49388
KIAA0319	6	24544332	24646383	330	34	47726
C1orf43	1	154179182	154193104	17	4	48142
ZNF260	19	37001597	37019562	43	8	49713
NDOR1	9	140100147	140111461	9	2	32203
KCNK13	14	90528109	90652201	441	38	51138
FAM71E1	19	50970042	50980010	16	5	45212
FAM182B	20	25744102	25848861	49	5	45682
FEM1C	5	114856608	114880591	24	6	50315
GINS2	16	85709804	85723679	36	4	49927
BTBD9	6	38136227	38607924	965	64	47538
OLIG2	21	34398153	34401504	8	3	47395
DOCK1	10	128593978	129250781	1674	120	50714
FEZF2	3	62355356	62359999	3	2	37780
CCL5	17	34198495	34207797	15	3	47850
CAPG	2	85621871	85645555	88	14	52122
ZNF18	17	11880756	11900827	32	5	50334
C7orf57	7	48075108	48100901	67	8	48424
BIVM	13	103451399	103493885	118	12	51220
ARHGDI A	17	79825597	79829282	4	1	42598
TPPP2	14	21492268	21504435	39	9	47909
ERCC4	16	14014014	14046202	68	6	50643
RHBDL2	1	39351479	39407471	162	24	47356
LRRC8D	1	90286573	90402170	140	27	45789
KLHL12	1	202860228	202897764	71	7	49620
ENC1	5	73923234	73937249	23	4	50463
RC3H2	9	125606835	125667620	84	11	40194
MED29	19	39881943	39891277	22	4	48457
BEND5	1	49193195	49242641	74	13	45538
FCN2	9	137772654	137779924	36	7	49619
CEA	19	42212531	42265190	101	10	49491
NPVF	7	25264189	25268105	22	5	50830
FAM189B	1	155216996	155225274	16	1	47208
ANKUB1	3	149478892	149686172	399	22	49591
SHROOM1	5	132157833	132166590	6	1	51317
PET117	20	18118517	18123813	18	6	49435
EXT2	11	44117099	44266979	249	23	51168
SMIM22	16	4838398	4846492	16	5	49272
CA8	8	61099906	61193971	283	24	48953
WTIP	19	34971874	34997258	52	10	45091
CSK	15	75074398	75095539	31	6	43735
CCDC144A	17	16592851	16707767	27	4	43034
RP11-219A	17	16593575	16707767	27	4	43034
KCNB2	8	73449626	73850584	1051	61	46077
ARHGDI B	12	15094951	15114662	39	6	50148
LZTR1	22	21333751	21353327	48	13	42948
EPM2A	6	145822719	146057160	543	13	50078
TTLL9	20	30458505	30532764	126	18	49446
SVEP1	9	113127531	113342160	777	57	51415
HIST2H2BF	1	149754245	149783928	11	2	42469
NIPAL4	5	156887027	156901725	41	8	51205

ZNF74	22	20748405	20762745	39	4	49219
INPP5E	9	139323071	139334274	35	5	52359
NTM	11	131240373	132206716	2671	212	49559
WDR17	4	176986985	177103978	358	18	49633
NRSN2	20	327426	340304	17	5	40833
PNLIPRP3	10	118187379	118237469	116	11	45062
C2CD4C	19	405438	409139	9	4	34540
EPS8L3	1	110292702	110306649	39	11	43822
BAG2	6	57037124	57054631	15	3	49902
RP11-770J1	11	118267810	118272610	6	2	47429
SPATA16	3	172607148	172859058	562	40	49804
OR52D1	11	5509915	5510979	7	2	46138
RNF187	1	228674762	228683467	22	6	48720
CSNK2A3	11	11373489	11374904	2	1	39870
ANHX	12	133794898	133812681	37	6	46700
PCDHB13	5	140593509	140596993	6	2	49529
FAM114A1	4	38869298	38947360	256	18	51311
ZNF680	7	63980262	64023484	123	8	52569
HSD11B2	16	67464555	67471456	7	2	46981
C14orf178	14	78227173	78236085	31	7	51984
INSRR	1	156809855	156828810	17	7	36929
PTGR1	9	114312002	114362135	169	29	50885
DMP1	4	88571459	88585513	32	6	50122
HOXC5	12	54426637	54429142	5	2	51674
IL33	9	6215805	6257983	122	16	50836
CA1	8	86239837	86291243	72	14	43752
UVSSA	4	1341054	1381837	130	13	46550
RFX1	19	14072350	14117851	18	6	35258
ZC3HAV1	7	138728266	138794465	142	17	49078
AP000708.	11	125365110	125369424	6	4	48868
IP6K2	3	48725436	48777786	74	8	49322
GABRG3	15	27216429	27778373	1351	126	45630
FABP4	8	82390654	82395498	13	2	49054
PARD6G	18	77915115	78005429	198	18	49190
GSTO2	10	106028631	106064703	46	8	44090
CCDC150	2	197504278	197628214	190	11	49055
MICU1	10	74127098	74385899	302	4	40367
TAF4	20	60528525	60640866	254	12	48638
TGM7	15	43568478	43594453	28	4	44481
SCUBE3	6	35182190	35220856	48	8	43268
GATS	7	99798283	99869855	114	12	50548
CHRD2	11	74407474	74442430	75	18	46781
ZIC5	13	100615218	100624163	13	5	46914
HNRNPH3	10	70090931	70102948	22	5	46787
WDFY4	10	49892921	50191001	921	65	49319
SIAH1	16	48390275	48482313	112	15	47599
NRTN	19	5823813	5828335	9	4	44425
B4GALT7	5	177027101	177037348	27	7	43858
ALDOA	16	30064411	30081778	8	3	45862
OR5AK2	11	56756347	56757342	4	2	50605
AAED1	9	99401859	99417585	4	2	38736

TBL3	16	2022038	2032934	54	6	46508
SLC51A	3	195938358	195970049	98	15	50801
HSBP1	16	83841448	83853342	34	8	48135
DBNDD1	16	90071273	90086536	46	10	45416
MSI1	12	120779133	120806983	57	8	50975
LSG1	3	194361517	194393206	136	9	50741
DCAF16	4	17802278	17812381	12	2	51423
BSG	19	571297	583493	60	7	38060
TECTA	11	120971882	121062202	229	16	49958
INHBA	7	41724712	41742706	14	6	46849
C12orf5	12	4430371	4462338	56	8	51887
PLEKHM2	1	16010827	16061264	130	10	49028
RP11-51L5.	17	60349848	60360276	25	5	46869
OR52E4	11	5905501	5906527	7	2	51560
OR5A2	11	59189416	59190449	2	1	47405
ACTG1	17	79476997	79490873	40	6	41878
PDLIM5	4	95373037	95589377	407	20	50847
SPA17	11	124543694	124567414	22	3	42765
CRISPLD2	16	84853590	84954374	449	53	49262
HNRNPA2B	7	26229547	26241149	16	3	47187
ADAP1	7	937540	995043	142	27	38147
PFN4	2	24338241	24346347	23	4	50658
DDT	22	24313554	24322660	3	1	46604
ARIH1	15	72766667	72879692	95	12	45665
NFE2L3	7	26191860	26226745	62	9	48497
BAIAP2L2	22	38480896	38506677	48	6	45306
RHOT2	16	718086	724174	20	4	38491
PLEKHH2	2	43864412	43995126	426	36	48643
CNTD2	19	40728115	40732597	6	3	45262
SPATA2	20	48519928	48532080	32	6	47793
FAM173B	5	10226442	10250009	122	20	45735
SOX21	13	95361886	95364389	2	1	51366
PKIB	6	122793076	123047518	576	36	51107
OR4K17	14	20585566	20586597	1	1	48583
SELK	3	53918437	53926015	24	5	48406
NRN1L	16	67918708	67922758	3	1	50587
ANKRD13C	1	70726271	70820417	112	15	49974
ARL2	11	64781585	64789656	18	4	42901
CDC25C	5	137620954	137674044	107	12	50230
BTBD1	15	83685174	83736106	111	16	51057
TTC4	1	55181495	55208330	135	3	48886
ZDHHC21	9	14611069	14693469	288	28	50417
ZNF181	19	35225060	35233777	13	5	48181
RBM34	1	235294498	235324772	49	5	47128
TTC39A	1	51752930	51810788	87	16	46746
TSC2	16	2097466	2138716	39	10	39617
WNT9B	17	44910567	44964096	102	12	48455
AIP	11	67250512	67258574	7	2	44076
CCL1	17	32687347	32690250	11	4	45315
SELL	1	169659808	169680839	87	12	49613
ZWINT	10	58116989	58121036	7	3	48659

NAIP	5	70264310	70320941	3	2	31640
CTSD	11	1773982	1785222	29	4	47962
GFAP	17	42982376	42994305	40	10	49717
SPTBN2	11	66452719	66496697	27	10	46029
IBSP	4	88720733	88733074	36	8	49214
KLF13	15	31619058	31727868	224	28	49183
DMRTA1	9	22446840	22455739	20	6	48145
PAM16	16	4381550	4405608	46	8	39183
FAM86A	16	5134305	5147809	31	9	38387
CYB5D2	17	4046462	4090605	118	11	48988
STOX2	4	184774584	184944679	435	61	47563
FOXO6	1	41827594	41849262	50	10	49485
IQGAP2	5	75699074	76003957	842	66	49136
SLC35F3	1	234040679	234460262	1361	102	46781
RP11-407N	14	39703106	39820397	233	18	51447
GGACT	13	101183810	101241782	80	7	50383
OR51E1	11	4664650	4676718	47	8	49089
ZBTB47	3	42695176	42709072	30	6	49817
PYGO2	1	154929502	154936329	4	2	43427
RBP2	3	139171726	139199589	61	7	49770
ICAM1	19	10381511	10397291	29	9	46331
GLYCTK	3	52321105	52329272	14	4	48719
TMEM207	3	190146444	190167665	62	12	50863
DFFB	1	3773845	3801993	124	14	47801
C1orf174	1	3805689	3816857	31	4	51950
ARHGAP25	2	68906733	69053965	535	40	52042
TSC22D2	3	150126122	150184218	133	15	52692
KRT39	17	39114669	39123144	21	5	45717
TRIM33	1	114935399	115053781	274	16	51857
KRTAP4-5	17	39305178	39306054	4	2	48288
B4GALT4	3	118930579	118959950	114	16	51769
KDM8	16	27214807	27233089	26	5	50294
GRAP2	22	40297086	40369725	78	15	46338
LINGO3	19	2289774	2308156	45	9	38753
SPNS3	17	4336983	4391503	248	29	46204
USF1	1	161009041	161015767	23	5	45859
CTSS	1	150702672	150738433	47	5	49630
AL358113.1	9	71869331	71869642	1	1	46878
GOLGA7B	10	99627889	99631294	8	1	46885
DNAJC5B	8	66933795	67012751	204	27	48440
APH1B	15	63568217	63601325	69	13	49309
CNR1	6	88849583	88876078	50	14	48245
ZFYVE26	14	68194091	68283307	146	15	48300
PTX3	3	157154578	157161417	10	3	51760
CYP26C1	10	94821021	94828454	14	4	47652
AC104667.1	2	238499663	238504624	28	9	44908
PARP12	7	139723544	139763521	129	18	47684
GYLTL1B	11	45943172	45950647	16	6	43923
C5orf24	5	134181370	134195427	8	4	46992
COMMD10	5	115420688	115748459	1407	28	50751
OR4D6	11	59224411	59225464	4	1	46767

ADK	10	75910960	76469061	684	19	47072
RYK	3	133784147	133969689	371	20	50455
ICMT	1	6281253	6296032	24	4	41542
GDPD5	11	75145685	75236948	196	18	47420
RP11-690P	10	97733786	97792432	147	21	49078
CC2D2B	10	97733786	97792441	147	21	49078
SMDT1	22	42475695	42480288	4	1	48314
CUL4A	13	113862552	113919399	106	4	47495
NPFF	12	53900474	53901422	1	1	46586
MYZAP	15	57884139	57977562	249	29	48951
NOBOX	7	144094333	144107320	34	4	54414
STRBP	9	125871779	126030855	122	17	39522
REG1A	2	79347488	79350545	11	4	51522
LOXL3	2	74759541	74782817	15	3	39694
H1FO	22	38201114	38203442	4	2	49143
TTK	6	80713604	80752244	126	11	51196
RUSC2	9	35490124	35561895	98	15	48406
ALDH1B1	9	38392661	38398658	24	8	46616
TMEM252	9	71151496	71155783	7	2	48849
PIAS2	18	44388353	44500123	222	14	48737
TBCCD1	3	186263862	186288332	47	7	50766
C17orf59	17	8091652	8093564	1	1	31170
OPCML	11	132284871	133402414	3199	241	46504
KLHL29	2	23608088	23931481	1059	95	48733
MYCBP2	13	77618792	77901185	441	22	47328
AGXT2	5	34998206	35048198	169	18	51149
PPWD1	5	64859063	64883376	65	7	50207
FBXO17	19	39432044	39466550	90	14	49026
CYP2E1	10	135333910	135374724	186	11	46834
NLRP9	19	56219798	56249768	85	19	45431
SPAST	2	32288680	32382706	165	12	51043
IFNA5	9	21304613	21305312	1	1	54445
TGM6	20	2361554	2413399	184	21	51611
ZNF816	19	53430388	53466164	118	18	40838
PAQR7	1	26187701	26197744	5	1	44405
TAB2	6	149539777	149732749	619	37	50448
SCN8A	12	51984050	52206648	323	20	46261
PLLIP	16	57290004	57318599	80	11	51103
SIGLEC5	19	52115344	52150142	73	17	45225
IMPAD1	8	57870492	57906403	67	7	51497
VSTM2A	7	54610018	54638773	71	11	49913
VIM	10	17270258	17279592	12	4	44894
EDNRA	4	148402069	148466106	102	10	48935
GLRX3	10	131934663	131982785	191	18	53514
PTS	11	112097088	112140678	97	5	49289
SHPK	17	3511556	3539616	82	15	49130
CTD-2054N	15	100347228	100417353	382	18	52963
CISH	3	50643921	50649262	4	2	46079
LCE4A	1	152680636	152681967	2	1	44622
GAREML	2	26395960	26412532	31	5	46549
TRPM7	15	50844670	50979012	361	16	49980

ARID4A	14	58765103	58840605	85	11	47824
ODAM	4	71062213	71070293	23	4	52420
NAT16	7	100813774	100823557	39	7	47393
CROT	7	86974997	87029111	105	14	46045
ANO7	2	242127924	242164792	95	18	47836
PABPC4	1	40026488	40042462	32	9	50085
PCSK9	1	55505221	55530525	105	19	46928
SGTA	19	2754712	2783369	50	2	47975
RASIP1	19	49223844	49243978	36	5	46788
KIAA1432	9	5629025	5776557	317	18	49066
CELF3	1	151674880	151689290	18	3	51475
ATP2B4	1	203595689	203713209	208	25	45901
AC112693	15	93749295	93751277	6	2	46116
OR7G2	19	9212945	9213982	4	1	45835
AMER2	13	25735822	25746426	18	2	45447
MPEG1	11	58975983	58980424	7	3	45429
YPEL4	11	57412560	57417417	4	2	42254
FZD3	8	28351729	28431775	101	3	51747
KCNK6	19	38810484	38819660	25	4	51465
RP11-521M	8	26943694	26944766	4	2	53114
TTC39B	9	15163620	15307358	451	50	48317
WDR19	4	39184024	39287430	165	9	50047
TXNRD2	22	19863040	19929341	261	27	47840
PSMB8	6	32808494	32812480	19	5	49378
C2orf27A	2	132479948	132524973	83	7	40866
FAM46C	1	118148556	118170994	65	8	52361
LPCAT3	12	7085348	7125814	40	5	45201
EPHB4	7	100400187	100425121	61	10	44498
MCMBP	10	121588972	121652068	203	13	52117
MTX2	2	177134123	177202753	104	11	50703
AL163636	14	21152746	21168735	66	13	47598
LIN7B	19	49617581	49621717	13	2	51848
TMPRSS7	3	111753690	111800116	149	19	50279
RGS9	17	63133549	63223821	232	22	43838
AP5Z1	7	4815253	4833943	88	7	44611
ST14	11	130029457	130080271	134	21	49852
SYNJ1	21	34001069	34100359	121	17	48929
RNF181	2	85822848	85824736	4	2	48063
AK5	1	77747736	78025651	916	63	50369
CRYAB	11	111779289	111794446	15	3	45843
RNF165	18	43906772	44043103	291	39	47496
NUF2	1	163236366	163325554	369	26	51852
SLC25A10	17	79670404	79688042	67	8	49311
SLC16A12	10	91190051	91316398	305	35	49085
LEUTX	19	40267235	40276775	17	5	52225
PELP1	17	4574679	4607632	60	4	47181
RUNX1T1	8	92967203	93115514	142	4	51786
ARL5B	10	18948334	18970568	61	11	53577
VPS18	15	41186628	41196173	20	3	39706
WDR4	21	44263204	44299678	159	17	50481
PET100	19	7694623	7696842	4	1	52042

PRR9	1	153190060	153191793	4	1	56398
TNP1	2	217724181	217724787	1	1	56398
FBXL4	6	99316420	99395849	127	14	51331
CCDC93	2	118673054	118771709	281	18	52309
HIST1H4G	6	26246886	26247259	1	1	55273
SMCO2	12	27619743	27655118	165	11	41962
TMED2	12	124069078	124083116	41	6	50748
INO80	15	41271078	41408552	109	12	47220
DNAL4	22	39174513	39190203	19	5	45421
BBS4	15	72978527	73030817	82	11	47208
DSC2	18	28645940	28682378	46	11	48427
NDUF6	8	95907995	96128683	593	28	50612
AHNAK	11	62201016	62323707	209	28	44074
RNF186	1	20140523	20141771	3	2	46931
FCGR2A	1	161475220	161493803	49	9	48846
TMEM243	7	86825478	86849903	61	7	48383
PTPRG	3	61547243	62283288	2020	135	49605
TCF24	8	67858736	67874825	12	4	41093
SFRP4	7	37945543	38065297	447	42	51120
CATSPERD	19	5720688	5778745	112	23	44353
PRX	19	40899675	40919273	21	6	45463
C4orf33	4	130014472	130037795	72	8	49999
PATZ1	22	31721790	31742218	27	8	44429
RP11-276H	16	12180603	12184159	15	2	51007
MBLAC1	7	99724317	99726118	2	1	54644
POLG	15	89859534	89878092	29	3	47554
AL021546.t	12	120876001	120897809	52	10	49666
MVB12A	19	17516531	17544533	79	8	41509
FSTL1	3	120111140	120170100	157	20	48335
ESPL1	12	53662083	53687427	39	6	44715
SLAIN1	13	78272023	78338377	133	19	47417
WBSCR17	7	70597155	71178585	1881	120	48859
MS4A4E	11	59968726	60010561	108	11	51917
PLA2G3	22	31530795	31536593	18	9	45949
MSTO1	1	155579979	155718153	96	12	47086
GRIK1	21	30909254	31312351	1083	52	49136
ZNF283	19	44331444	44353307	89	8	53112
SUGP1	19	19386827	19431653	85	9	49320
OR5L2	11	55594695	55595630	4	2	52199
LMLN	3	197687071	197770591	187	13	48282
HSPA14	10	14880163	14913740	38	7	48922
INTS6	13	51928213	52028400	147	14	50168
PSRC1	1	109822178	109825808	6	3	47213
KIAA1161	9	34366668	34376851	25	7	49932
SMR3A	4	71226478	71232875	39	9	50461
TMEM165	4	56262124	56319564	140	12	52178
PLCXD3	5	41307056	41510730	435	30	49571
GRIN3B	19	1000418	1009731	55	9	40017
HSPA6	1	161494036	161496681	8	3	45132
EEA1	12	93164413	93323107	299	14	51531
GALR3	22	38219389	38221502	3	1	50966

POM121C	7	75046066	75115548	72	11	42394
FAT3	11	92085262	92629618	973	44	50158
HOXD10	2	176973518	176984670	23	6	45362
GLB1L3	11	134144139	134189458	109	17	49177
C1QL1	17	43037061	43045439	24	7	48886
COL1A1	17	48260650	48278993	34	10	43223
ZNF321P	19	53431728	53466076	109	17	40914
ZNF736	7	63767837	63815238	193	20	51090
ISG20	15	89179384	89199714	70	12	48140
ZNF433	19	12125547	12146556	29	4	42216
ITGAM	16	31271311	31344213	128	9	50077
C16orf3	16	90095316	90096309	6	2	47461
BLNK	10	97951458	98031344	221	41	43888
PRPF31	19	54618837	54635140	44	9	41890
EIF4A3	17	78109013	78120982	33	7	53257
ANKRD34B	5	79852574	79866307	29	7	50610
FLOT1	6	30695486	30710510	77	4	42101
SERF2	15	44069285	44094787	31	5	49975
COQ10B	2	198318147	198340032	12	3	49100
TCEB3	1	24069645	24088549	15	5	47891
C17orf51	17	21428051	21477722	14	3	36596
SIX6	14	60975669	60979568	7	2	44971
AARS	16	70286198	70323446	22	9	43350
CUX2	12	111471828	111788358	355	24	43813
GOLIM4	3	167726465	167813763	162	19	48406
NME5	5	137450866	137475132	34	8	48242
C1orf167	1	11821844	11849642	142	10	51475
CTDSP2	12	58213710	58240522	26	4	45842
FAM161B	14	74398204	74417117	58	8	49752
FARSA	19	13033293	13044851	19	5	44460
SRP9	1	225965531	225978168	32	7	49303
COX6C	8	100885428	100906290	44	6	46934
VCAM1	1	101185298	101204601	22	10	43072
CLTC	17	57697219	57773671	98	6	46327
ANKRD13A	12	110436991	110477568	62	11	47843
CCDC74A	2	132285248	132291239	11	3	48859
RNF216	7	5659678	5821370	482	25	45035
CHMP7	8	23101150	23119512	62	14	45858
AC010646	19	17346749	17366257	50	11	46030
PIP5K1A	1	151170425	151222012	57	6	49452
C5orf34	5	43486803	43515247	37	5	46242
SLC6A15	12	85253492	85307394	64	9	49619
MGME1	20	17949556	17971765	63	7	54860
VAMP3	1	7831329	7841492	31	8	52403
GAS7	17	9813926	10101868	945	127	48596
AC020907	19	35596873	35598141	6	2	44545
TP53AIP1	11	128804626	128813040	25	9	47921
WDR53	3	196281056	196295545	22	3	50742
C1orf111	1	162342993	162346660	13	4	48537
APC	5	112043195	112181936	266	17	45093
SQLE	8	126010739	126034525	86	9	49152

SRGAP3	3	9022275	9404737	1082	128	48975
C18orf32	18	47008028	47013622	14	5	51178
ZNF155	19	44472014	44502477	109	10	50523
COLEC12	18	319361	500722	822	69	49347
CRLS1	20	5986736	6020699	81	10	50214
GBX1	7	150845676	150871832	49	9	50755
CCDC62	12	123258874	123312075	153	13	45979
MARCH5	10	94050920	94113721	64	8	48158
HDGFL1	6	22569678	22571892	9	3	48524
PRMT1	19	50179043	50192286	8	4	39626
MAP9	4	156263810	156298122	97	8	51158
CHRNA2	8	27317279	27337400	80	14	47161
SCN1B	19	35521588	35531352	19	4	41741
NACC2	9	138898383	138987131	262	35	45139
CTD-2006C	19	12128703	12163782	52	4	42232
CHD6	20	40030741	40247133	429	23	47671
CYP4F22	19	15619304	15663128	108	24	44705
KRTAP25-1	21	31661463	31661832	2	1	52628
PIANP	12	6802958	6809966	5	2	44380
C14orf79	14	105452112	105476819	65	6	50187
PM20D1	1	205797150	205819260	46	13	47392
C9orf84	9	114448453	114557288	272	13	50871
DPP7	9	140004994	140009629	10	3	41944
PRSS57	19	685521	695460	75	10	40108
POLR1B	2	113299492	113334635	84	10	52442
KCNJ9	1	160051360	160060353	19	5	49714
PDE12	3	57542003	57552571	19	5	50945
ANXA2R	5	43039335	43043272	4	2	40483
CEP85	1	26560691	26605299	128	10	49278
ZNF16	8	146155744	146176274	32	3	51010
BOC	3	112929850	113006303	229	32	48213
IGFALS	16	1840414	1844972	25	3	47775
ZNF473	19	50528971	50556671	41	9	50372
CAPN15	16	577717	604636	28	6	35340
CILP	15	65488337	65503826	24	3	48709
SIGLEC5	19	52114781	52150151	75	18	45447
RAB5B	12	56367697	56388490	34	5	51404
HTR1E	6	87647024	87726349	164	15	49507
CDK6	7	92234235	92465908	211	24	46753
DNAAF1	16	84178865	84212373	140	23	49319
METTL7B	12	56075330	56078395	9	3	46486
IL20RA	6	137321108	137366298	82	16	47034
ARAP2	4	35949843	36246131	734	51	49489
MYLK4	6	2663863	2751200	392	32	51246
FN3KRP	17	80674559	80688204	46	10	48175
LRRC40	1	70610488	70671303	84	10	49575
C9orf24	9	34379017	34397830	33	8	49908
MOXD1	6	132617194	132722684	204	23	49571
CORO2B	15	68871308	69020145	355	40	43283
CPN2	3	194060494	194072057	68	8	49388
PODN	1	53527854	53551174	102	11	46764

PFKFB3	10	6186881	6277495	256	54	44498
C9orf116	9	138387027	138393580	17	2	40523
POMZP3	7	76239303	76256578	10	3	41956
QRFPR	4	122250467	122302214	258	21	49743
PLA2G16	11	63340667	63384355	46	11	40887
CPA5	7	129984630	130008571	85	11	49346
CD2	1	117297007	117311850	29	6	43503
CDC42SE2	5	130581186	130734140	141	9	45590
TPBG	6	83072923	83080545	13	3	42132
ZNF266	19	9523272	9546254	60	2	52957
CALCRL	2	188207856	188313187	219	20	51348
DDX11	12	31226779	31257725	69	6	50199
PYCRL	8	144686083	144691943	17	4	46618
NOTUM	17	79910388	79919716	18	2	43095
TLE3	15	70340129	70390515	86	11	43592
GART	21	34876238	34915797	47	9	49259
U2AF1L4	19	36233365	36236346	8	3	53284
ADGB	6	146920101	147136598	468	49	50250
RAB15	14	65412532	65439494	67	10	49987
LOXL4	10	100007447	100028007	41	5	51429
TMC2	20	2517253	2622430	370	25	51635
RBM26	13	79885962	79980612	209	8	51330
RIPPLY3	21	38378450	38391959	33	5	49911
DHX8	17	41561233	41621831	87	5	51618
TVP23C	17	15341205	15466909	273	22	48038
TVP23C-CD	17	15339338	15466875	276	22	47922
AQP3	9	33441152	33447609	14	5	47655
USP49	6	41757634	41863099	175	20	46396
FBXO6	1	11724181	11734411	25	7	40772
ATP2B2	3	10365707	10749716	1244	111	46777
NUDT3	6	34247456	34360451	223	9	49017
ZNF784	19	56132108	56135967	5	2	45708
TMEM236	10	18041218	18089855	2	1	32269
KRT86	12	52643084	52702947	197	21	51279
DNAH11	7	21582833	21941457	1414	103	49939
C16orf62	16	19566562	19718115	407	32	48737
AC104532	19	5904852	5914718	31	6	49230
SLCO1C1	12	20848289	20906320	180	20	47774
PAPLN	14	73704205	73741348	99	19	49049
DNAH17	17	76419778	76573476	720	74	49668
PDILT	16	20370492	20416059	92	9	47652
ALG5	13	37523912	37574398	75	9	45465
MSL1	17	38278551	38293042	23	4	43472
NFYA	6	41040684	41067715	39	6	49244
RP11-295P	10	13652047	13710299	196	18	49812
OR6N2	1	158746472	158747425	2	1	54644
STAT5A	17	40439565	40463961	46	6	49291
HRASLS5	11	63228876	63258666	43	6	40906
AC007040	2	71166448	71222466	152	32	43719
HS3ST3B1	17	14204400	14252721	140	32	41918
PRMT10	4	148558936	148605381	10	5	39380

CYP2R1	11	14899553	14913798	11	4	48402
RIOK3	18	21032787	21066567	74	12	48839
RP11-204N	14	98215601	98230326	51	8	50490
PPAN-P2RY	19	10216899	10225456	20	5	44674
PPAN	19	10216965	10225414	20	5	44674
SLC9B1	4	103806205	103940896	206	8	51085
ZNF600	19	53267448	53290044	63	12	41121
CDKN2AIP	4	184365744	184369351	4	2	45507
SIAH3	13	46354405	46425871	220	26	47609
WFDC1	16	84328252	84363450	190	38	46443
ZNF792	19	35447258	35454953	21	6	49313
KIF1C	17	4901243	4931696	70	12	48410
MUC8	12	133049334	133050726	1	1	35164
SLC46A2	9	115641200	115653193	21	6	48718
RP11-296A	15	44064815	44091331	31	4	49887
TDRD5	1	179560748	179660407	258	13	52443
MGC10955	2	74361599	74362521	4	2	37532
KLHL8	4	88081255	88161466	148	18	50325
ZNF30	19	35417807	35436074	63	5	48560
OCA2	15	28000021	28344504	853	40	46901
BIRC8	19	53792856	53794875	10	4	41115
VSTM2L	20	36531499	36573752	110	14	49643
GEMIN6	2	38978676	39012142	63	8	47568
CD300LF	17	72690452	72709117	22	4	44814
SMARCA2	9	2015342	2193624	545	66	47610
DEPDC1	1	68939835	68962904	59	7	53431
ZNF525	19	53868946	53895470	88	11	43744
AC140061.	12	50690489	50691718	3	1	53801
HECA	6	139456249	139501939	106	10	50124
RP11-794P	11	111322064	111328876	29	8	50554
RP11-434D	3	14176717	14189548	31	6	47494
MEF2D	1	156433519	156470620	57	7	47519
SERINC2	1	31882412	31907525	58	6	50658
EIF5	14	103799881	103811362	24	5	50384
C9orf57	9	74666292	74687733	56	11	50180
FOXA2	20	22561643	22566093	4	1	47367
C19orf45	19	7557862	7573336	53	11	41499
VMO1	17	4688580	4689728	3	1	45675
DENND2D	1	111729796	111747157	40	13	46566
PPP1R10	6	30568177	30586389	41	3	38115
ACAP3	1	1227756	1244989	13	2	36359
FSTL5	4	162305049	163085187	2503	97	51234
AGXT	2	241807896	241819919	41	7	48653
MAP1LC3C	1	242158792	242162375	9	2	33520
ZNF569	19	37902057	37960177	82	11	47700
CYP7B1	8	65500320	65711318	362	20	49354
PCDHB7	5	140552243	140555957	9	3	48334
C7orf60	7	112459202	112579971	152	18	43913
LRRC8C	1	90098631	90235462	205	15	51006
WDFY1	2	224720433	224810104	191	9	45836
CCDC57	17	80059336	80170706	379	5	47388

SEZ6	17	27281919	27333458	53	8	49679
SLC29A1	6	44187242	44201888	18	7	45120
AE000662.!	14	23025534	23027939	10	3	50019
ELMOD3	2	85581517	85618875	74	12	50205
SUCO	1	172501489	172580971	89	11	51646
IL17RD	3	57124010	57204334	196	21	48759
ROCK2	2	11319887	11488456	354	15	50899
OGFRL1	6	71998506	72018653	67	11	45240
USP13	3	179370543	179507189	296	30	49804
KCMF1	2	85198216	85286595	115	10	42656
UBE3C	7	156931607	157062066	363	14	50923
TMEM211	22	25331077	25342662	15	3	47638
RP11-574K	10	75556272	75571409	12	3	46049
TMEM99	17	38975358	38992522	44	9	51314
SPATA6L	9	4553386	4666674	375	32	47911
SCHIP1	3	159557650	159615149	74	15	50903
BCO2	11	112046190	112095422	86	11	53005
AC104472.	3	155459933	155461515	2	1	45585
TYW1	7	66460160	66704501	995	28	52758
CCDC171	9	15552895	16061661	1076	16	50482
ETNK1	12	22778009	22843599	77	7	51356
ASB15	7	123207064	123277951	146	17	51219
ASIC1	12	50451331	50477394	26	5	47515
ATR	3	142168077	142297668	246	14	45211
SUMO3	21	46225532	46238694	38	8	48244
LILRA1	19	55105047	55113555	50	6	48153
PRPH	12	49687035	49692465	9	3	46297
F12	5	176829141	176836577	4	2	36624
CCNG2	4	78078304	78354542	1335	25	52752
ZBTB3	11	62515791	62521660	7	3	41723
RAB11FIP1	8	37716136	37756985	25	8	42643
DIDO1	20	61509090	61569304	142	17	48807
LGALS4	19	39292311	39304004	30	8	50444
API5	11	43333513	43366079	55	14	48367
AC016885.	8	94241867	94242388	1	1	48583
CTRL	16	67961543	67966317	1	1	55623
C20ORF13E	20	62492879	62493217	1	1	46074
LRP6	12	12268959	12419946	270	16	51344
LCNL1	9	139876356	139880862	11	2	44458
YWHAE	17	1247566	1303672	171	18	49507
N6AMT2	13	21302870	21348097	129	9	48499
GLS	2	191745553	191830278	102	12	47190
ELAVL1	19	8023463	8070543	85	9	50677
CDKAL1	6	20534688	21232635	2004	77	50665
AC136604.	5	179078298	179079445	2	1	54152
IL4	5	132009678	132018368	14	2	37514
MRPS28	8	80830952	80942524	111	11	45072
MYLK3	16	46740891	46824319	38	4	43785
MLLT3	9	20341663	20622542	354	35	46718
UBAC2	13	99853028	100038688	376	24	49578
SCN2B	11	118032666	118047388	37	9	47642

SPI1	11	47376411	47400127	57	7	51345
ADAM2	8	39601254	39695808	178	20	51326
REPIN1	7	150065278	150071133	16	3	47733
UTS2R	17	80332153	80333462	1	1	54152
TSSK2	22	19118321	19120134	5	1	54943
GRK7	3	141496990	141537332	91	13	46570
CDKL1	14	50796310	50883179	217	25	51080
LRRC10	12	70002351	70004942	5	3	42900
SPCS3	4	177241115	177253396	48	8	52140
C7orf50	7	1036622	1177896	562	24	50237
MICU2	13	22066836	22178353	259	15	49305
STOML2	9	35099888	35103154	4	1	41340
TMPRSS9	19	2389769	2426237	175	17	46374
WFDC8	20	44179792	44207965	142	3	54594
RNF14	5	141337893	141369856	76	8	50857
ISG20L2	1	156691683	156698591	12	6	45106
YPEL3	16	30103635	30108236	2	1	46710
CYP4A11	1	47394849	47407156	26	3	48731
SMAD2	18	45357922	45457515	123	7	50359
RNMT	18	13726659	13764557	86	12	50097
TNFSF10	3	172223298	172241297	70	12	51177
S1PR1	1	101702444	101707074	9	4	42861
SLITRK5	13	88324870	88331871	4	2	44915
C2orf91	2	42162508	42181406	48	10	50732
ZSCAN32	16	3432085	3451065	37	6	51825
U2SURP	3	142683339	142779567	175	15	48762
LY6G5C	6	31644461	31651817	11	4	47873
PRICKLE4	6	41748087	41757879	27	6	47631
CCL11	17	32612687	32615353	7	4	50640
SUB1	5	32531739	32604185	133	17	46571
TLX1NB	10	102849078	102890883	114	16	51681
IFNL3	19	39734246	39735646	2	1	39023
NIP7	16	69373333	69377014	13	4	50803
APEX1	14	20923350	20925927	4	2	40311
COG8	16	69354043	69373570	43	7	51640
TSPAN13	7	16793160	16824161	96	14	49266
FPGS	9	130556876	130576606	40	7	44737
PSME4	2	54091204	54197977	262	17	51599
GPR12	13	27329341	27334922	13	5	46979
CRIPAK	4	1385340	1389780	8	2	45641
THPO	3	184089723	184095932	19	6	41905
UBR2	6	42531800	42661242	180	16	52137
ANKRD13B	17	27916787	27941779	24	8	44061
ZC3H15	2	187350883	187374090	44	7	51495
ZNF543	19	57831877	57842144	39	10	50906
ST6GAL1	3	186648274	186796341	513	60	49020
CLPB	11	72003469	72145692	199	12	47851
MSANTD3	9	103204553	103339918	277	15	48072
TMEFF1	9	103204560	103339918	277	15	48072
HMOX1	22	35776354	35790207	38	5	46223
MIA3	1	222791428	222841354	102	9	46067

NES	1	156638555	156647189	15	2	48155
SIRT3	11	215458	236931	105	10	53247
BRD1	22	50166931	50221160	96	7	50395
KCNK1	1	233749750	233808258	163	31	47576
BLK	8	11351510	11422113	243	25	48464
DIRAS3	1	68511645	68517314	9	2	39991
TSHB	1	115572415	115576941	19	4	54567
LRTM2	12	1929433	1945918	51	14	43424
C1ORF220	1	178511950	178517579	20	3	49735
SRPR	11	126132814	126139039	15	4	49529
SCARB1	12	125261402	125367214	272	42	48223
OR6C3	12	55725485	55726420	1	1	49124
AC091801.	7	3179868	3214287	210	27	51868
FBXL13	7	102453308	102715286	335	18	49588
DCUN1D2	13	114110134	114145267	66	10	45807
ITGAV	2	187454792	187545628	124	17	49640
MTX1	1	155178490	155183615	5	2	45012
PCBP1	2	70314585	70316332	1	1	37168
RAB4A	1	229406822	229441641	66	7	50660
STAM2	2	152973315	153032506	116	10	49424
DOPEY1	6	83777385	83881069	148	12	47143
MAMDC2	9	72658497	72841886	468	19	50367
FGF18	5	170846660	170884627	72	14	48822
RXRB	6	33161365	33168630	12	4	47912
PIP5K1B	9	71320575	71624092	755	36	47162
TAOK2	16	29984962	30003582	18	3	43687
ADAMTSL1	9	18473892	18910948	1597	131	50909
ZER1	9	131492065	131534693	32	4	46057
ZNF8	19	58790317	58807254	48	7	50303
ZNF8	19	58790318	58807254	48	7	50303
PER3	1	7844380	7905237	203	24	50965
SPEF2	5	35617946	35814713	556	28	50197
IL1B	2	113587328	113594480	14	4	50408
RGS16	1	182567758	182573543	7	3	46525
WRNIP1	6	2765648	2787186	63	12	48069
BUD13	11	116618886	116643704	84	15	50568
APOA2	1	161192082	161193421	2	1	48174
TRA2A	7	23544399	23571660	44	10	49163
TPST1	7	65670186	65885530	359	14	51654
SP2	17	45973516	46006323	56	9	51477
SERPINB13	18	61254223	61271873	21	4	48087
AC004076.	19	57949338	57988904	128	13	50966
ARL5C	17	37313147	37323737	45	8	45974
HS1BP3	2	20760208	20850849	397	37	50129
FNDC7	1	109255279	109285365	59	14	46453
GDF2	10	48413092	48416853	5	2	46688
MOCS1	6	39867354	39902290	86	16	45599
CACNA1S	1	201008642	201081694	222	41	46696
NUP43	6	150045451	150070801	35	3	49179
POU4F2	4	147560045	147563626	7	2	47407
CLPTM1L	5	1317859	1345214	65	9	48713

FGF4	11	69587797	69590171	8	3	48774
GRPEL1	4	7060633	7069924	23	3	45496
LRRIQ3	1	74491699	74663871	229	14	49543
NR2C2AP	19	19312225	19314233	1	1	40340
CH25H	10	90965694	90967071	4	1	40747
PRDM5	4	121606074	121844025	848	33	50876
PKN3	9	131464802	131483197	9	4	39943
SEMA4C	2	97525453	97536494	6	3	39901
CAMSAP1	9	138700333	138799074	113	11	49477
MYT1	20	62783144	62873604	226	41	47170
OR1D2	17	2995352	2996290	3	1	47538
BTBD7	14	93703896	93799438	251	18	48091
KCNE4	2	223916532	224063117	580	29	52834
TMEM126f	11	85339629	85347580	12	4	50900
GRID2	4	93225550	94695707	3234	105	47875
WSB2	12	118470712	118500235	56	6	49623
BMP2K	4	79697496	79837526	163	5	49988
ABCD4	14	74752126	74769759	16	2	47307
UNC13C	15	54305101	54920806	2272	94	50522
ABI3BP	3	100468000	100712359	622	47	51799
SLC39A12	10	18240768	18332221	329	36	50585
C9orf142	9	139886870	139888436	1	1	53085
ANGPTL3	1	63063158	63071830	2	1	41438
STYX	14	53196898	53241716	73	9	49218
TAB1	22	39795746	39833065	45	4	48301
NUP153	6	17615269	17706656	209	25	48031
C9orf64	9	86553226	86571901	29	7	49406
FOXN2	2	48541776	48606433	183	18	53014
SMARCA4	19	11071598	11176071	255	19	50076
TLR10	4	38773860	38784611	76	9	47178
LTBP3	11	65306276	65326401	17	4	47100
ANKRD33B	5	10564442	10650308	260	23	51396
TSTD2	9	100362362	100395962	28	9	49517
CTPS1	1	41445007	41478235	80	16	49382
MLNR	13	49794474	49796513	2	1	48678
C8orf12	8	11225911	11296167	256	23	48669
CHD1L	1	146714291	146767443	173	16	49190
APOB	2	21224301	21266945	51	13	46719
GPRC5A	12	13043716	13070871	57	10	47568
HDGFRP2	19	4472284	4502223	91	9	46089
IGDCC3	15	65619465	65670378	84	14	46726
ADAMDEC1	8	24241798	24263526	28	7	48267
CSRNP3	2	166326157	166545917	401	33	51247
SGK223	8	8175258	8244008	231	27	50881
AK2	1	33473585	33546597	83	5	50950
ZNF132	19	58944181	58951589	12	3	49227
SLC5A2	16	31494323	31502181	4	2	44044
PSTPIP1	15	77285700	77329673	95	16	46782
TTLL10	1	1109264	1133315	82	8	37156
SCRT2	20	642240	656823	25	10	40536
C1orf145	1	228391207	228401365	16	2	49923

SPATS2L	2	201170604	201346986	372	39	49540
EPT1	2	26531415	26618759	177	20	44419
LCE2D	1	152635872	152637135	2	1	53016
ARHGAP23	17	36584662	36668628	216	28	42440
TAGLN2	1	159887897	159895522	15	5	41698
ACTL6B	7	100240720	100254084	12	4	44254
C19orf52	19	11039409	11044211	10	3	44491
NCAPD2	12	6602522	6641121	109	11	51764
EPPIN	20	44165625	44176391	9	4	48980
SLC2A7	1	9063359	9086404	56	13	44645
SNRPC	6	34725183	34741571	49	7	48456
ZNF131	5	43065278	43192123	369	22	51612
TMEM19	12	72079867	72097836	30	5	46673
NUP62	19	50410082	50433020	64	11	49159
XPO4	13	21351469	21477187	211	13	46295
AL358333..	14	52436014	52436247	1	1	42125
ZNF703	8	37553269	37557537	2	1	38605
ABCC8	11	17414432	17498449	268	24	50071
MLLT4	6	168227602	168372703	353	16	49847
SLC35C1	11	45825623	45834566	27	8	49470
DCUN1D5	11	102932805	102962944	45	8	49708
AFAP1L2	10	116054583	116164515	197	32	46778
TRIP10	19	6737936	6751537	19	6	40130
SMCO3	12	14957584	14967116	20	6	50456
MRPL36	5	1798500	1801480	17	4	46265
SETD6	16	58549383	58554431	14	4	47882
PDGFRL	8	17433942	17501580	436	41	49309
NLRP8	19	56459198	56499995	145	21	50812
MEFV	16	3292028	3306627	37	4	49895
NR2C2	3	14989091	15095107	169	18	49006
DPPA3	12	7864050	7870155	13	5	45859
RAB3B	1	52373628	52456436	144	17	49059
FABP1	2	88422510	88427635	7	3	47979
SPIN1	9	91003334	91093609	134	2	48548
UBE2F	2	238875469	238951236	200	10	52193
ROBO4	11	124753587	124768396	53	9	49601
MDP1	14	24683143	24685276	1	1	54263
TEX10	9	103064359	103115221	97	10	47577
S100A11	1	152004982	152020383	19	2	47015
FGFR2	10	123237848	123357972	191	38	47161
KDM3B	5	137688285	137772717	175	20	49942
FCER1A	1	159259504	159278014	47	9	46275
ASXL2	2	25956622	26101385	300	13	49673
SLC25A20	3	48894369	48936426	27	4	46701
SURF1	9	136218610	136223552	11	3	49315
CXCL1	4	74735110	74736959	5	2	50009
ITPR3	6	33588142	33664351	296	34	50910
SH3GLB2	9	131769315	131790582	18	4	45920
OR2L5	1	248185250	248186188	1	1	45452
AC108868.	2	107099728	107103848	8	3	51177
FAM205A	9	34723052	34729464	18	4	44933

MFN2	1	12040238	12073571	66	7	49067
SYT5	19	55682567	55691809	54	6	42772
PON1	7	94926988	95025673	174	28	47303
ZFP91	11	58346584	58388515	59	10	51324
CPPED1	16	12756919	12897874	418	35	45426
RIMS1	6	72596406	73112845	1227	47	49604
CYP2C19	10	96447911	96613017	398	15	52938
VEPH1	3	156977531	157251408	692	38	51666
ADAM33	20	3648612	3662893	55	17	45367
TSSK4	14	24674903	24677568	2	1	54976
KCNS1	20	43720951	43729753	13	4	49554
CARM1	19	10982189	11033453	63	8	47782
ZNF503	10	77157588	77161664	1	1	40770
ARHGGEF39	9	35658872	35675863	42	7	47937
EPPIN-WFC	20	44165625	44176065	8	4	49394
TTLL5	14	76099968	76421421	518	18	46091
TNFRSF1A	12	6437923	6451280	13	3	44107
C3orf58	3	143690640	143767561	168	12	49126
NUDT5	10	12207324	12238143	49	11	49383
PYGB	20	25228705	25278650	153	11	48643
GFY	19	49927006	49932075	4	2	34049
NLRP10	11	7980971	7986973	19	6	48800
NOL3	16	67204057	67209643	4	2	43671
PDF	16	69362524	69364498	5	2	55565
SH3BGR	21	40817781	40887433	227	20	51209
RPP25L	9	34610483	34612101	2	1	55273
NAF1	4	164031225	164088073	92	13	49827
CPM	12	69235977	69365350	308	39	47585
NKAIN1	1	31652592	31712401	180	12	50197
OPRD1	1	29138654	29190208	148	17	49815
CCS	11	66360292	66373490	10	3	46200
POLN	4	2073645	2243848	356	9	47139
C14orf159	14	91526677	91691976	334	37	49405
MMP27	11	102562218	102576537	66	12	51152
DMWD	19	46286205	46296060	19	7	45090
KRTAP10-1	21	46117087	46117959	2	1	42885
TTC30B	2	178413726	178417742	2	1	52416
CTD-2545N	19	50919056	50931666	36	9	41430
CPNE9	3	9745491	9771592	34	13	40481
LNX2	13	28120050	28194541	229	24	52922
DUS4L	7	107203929	107218906	15	4	48257
PARS2	1	55222571	55230187	24	6	52986
TLR6	4	38825336	38858438	89	8	49158
TMEM167A	5	82348665	82373682	46	7	48558
VNN1	6	133002729	133035188	144	12	48304
GRAMD1A	19	35485688	35517375	95	9	48196
HSPB7	1	16340523	16346089	43	5	51858
KIF7	15	90152020	90198682	80	8	47999
PRKCZ	1	1981909	2116834	300	17	45254
DARC	1	159173097	159176290	10	3	49808
TMEM182	2	103353367	103460352	187	15	51499

TGFBR3	1	92145902	92371892	638	52	51252
DNAJB1	19	14625582	14640582	20	4	49509
GPC2	7	99767229	99774995	8	3	44287
SLC15A4	12	129277739	129308528	114	9	52021
WDR88	19	33622996	33666701	121	15	49184
TERF1	8	73921099	73960357	56	6	47149
MPND	19	4343524	4360083	31	5	45009
ATAD2B	2	23971534	24149984	456	19	51938
XPO7	8	21777180	21864096	138	9	51865
R3HDM1	2	136289025	136482840	203	14	43508
CDKN1C	11	2904443	2907111	1	1	50999
BDKRB2	14	96671016	96710666	152	27	47070
SIRPA	20	1875154	1920543	118	20	42546
PUS1	12	132413745	132428406	24	4	44272
STIP1	11	63952744	63972015	33	6	51799
ZNF596	8	182137	197342	33	6	52029
ZNF549	19	58038693	58068910	26	8	49006
ATP7B	13	52506809	52585630	164	14	49300
ANG	14	21152336	21167130	67	12	47800
DHX40	17	57642886	57685706	19	4	44323
ATXN1	6	16299343	16761722	1266	139	48184
BNC2	9	16409501	16870841	1260	66	47140
C16orf93	16	30768744	30774031	6	4	40842
SP140L	2	231191899	231268447	302	23	52595
OR5AC2	3	97806017	97806946	4	2	44304
BARHL2	1	91177096	91182794	9	5	47884
NUFIP1	13	45513384	45563618	54	11	43894
GOLGA6L2	15	23684645	23692381	2	1	41743
OR2L8	1	248112160	248113098	6	2	46703
FUBP1	1	78409740	78444794	59	9	48699
SLC25A2	5	140682196	140683612	5	2	49959
PROL1	4	71263599	71275911	40	9	52191
ERMP1	9	5765076	5833117	150	11	48328
RPL9	4	39455744	39460568	19	5	52677
ASH1L	1	155305059	155532598	131	13	45297
NOL4	18	31431064	31804916	681	45	49220
ACTR6	12	100592900	100635643	78	13	47052
HES2	1	6472478	6484730	33	5	47383
USP48	1	22004791	22110099	311	24	50306
NDUFS3	11	47586888	47606114	14	6	50331
TDP1	14	90421283	90511106	195	10	38201
FAM216B	13	43355686	43365683	28	5	53597
KIAA1109	4	123073488	123283913	266	18	49449
UTP20	12	101673887	101780394	180	18	46936
PRDM6	5	122424816	122529960	388	29	49869
FADD	11	70049269	70053496	5	1	50369
NT5E	6	86159809	86205500	61	10	49910
HHLA3	1	70820488	70851022	52	7	52927
MFSD2B	2	24232951	24286191	113	19	50468
DMBX1	1	46972668	46979898	19	5	48671
JMJD7	15	42120283	42129779	34	6	47167

PGA3	11	60970779	60980570	1	1	47227
LAPTM5	1	31205316	31230667	48	12	49926
ANAPC16	10	73975787	73995618	11	4	43982
CPQ	8	97657455	98161882	674	46	48435
CHTF8	16	69151913	69166487	23	8	49034
ETF1	5	137841784	137878989	54	10	47358
MROH6	8	144648357	144655141	20	5	46984
PCP2	19	7696497	7698634	7	1	55239
ZNF92	7	64838712	64866038	78	7	49487
ANKRD27	19	33087913	33167503	374	16	49097
RAMP2	17	40910465	40915059	5	1	44326
FRYL	4	48499378	48782339	283	16	47217
NTN4	12	96051583	96184930	422	41	50912
SLC1A1	9	4490444	4587469	279	32	49588
HSD17B11	4	88257762	88312538	169	17	51148
GAK	4	843064	926161	316	27	48926
CIZ1	9	130928343	130966662	59	5	43564
PON2	7	95034175	95064510	70	8	48455
RP11-404P	14	96671181	96730266	220	34	48082
ZNF23	16	71481500	71496998	30	8	49853
SCD5	4	83550692	83720010	714	49	50517
C19orf59	19	7741514	7744712	4	2	37369
FRMPD1	9	37650997	37746901	314	32	50682
IQCF3	3	51851620	51864876	12	2	36943
OTOP1	4	4190530	4228616	133	14	48565
ATP6V0E1	5	172410760	172462448	68	13	48710
ZKSCAN3	6	28317691	28336947	60	10	50323
SNTB2	16	69221032	69342955	206	17	50814
GRM1	6	146348782	146758734	638	37	47574
FAM184A	6	119280928	119470552	487	41	48338
ADSS	1	244571796	244615436	95	15	49680
NPS	10	129347613	129350935	31	7	50892
FGFBP2	4	15961866	15970932	30	7	50166
DNTTIP1	20	44420576	44440066	45	8	51596
EBF3	10	131633547	131762105	147	37	43742
RDH8	19	10123925	10132955	39	7	47031
BSPH1	19	48471303	48495427	95	12	49392
SLC4A4	4	72053003	72437804	538	27	47678
ZNF727	7	63505821	63538927	117	6	51229
CCL25	19	8117651	8127534	33	9	48903
TRIM6	11	5617339	5634188	83	20	48897
GPR19	12	12813825	12849141	78	15	48619
P2RY2	11	72929343	72947397	31	8	42243
DEFB119	20	29964967	29978406	36	8	47866
C9orf72	9	27546544	27573864	98	13	49897
TRMT5	14	61438169	61448076	4	2	40817
OR8D2	11	124189134	124190184	3	1	44900
TJP3	19	3708107	3750811	125	20	42060
IGLON5	19	51815102	51833608	33	6	46292
POM121L2	6	27253682	27279949	90	15	49133
PPY	17	42018172	42019836	3	1	51877

CALCOCO2	17	46908350	46943884	80	7	46293
STX12	1	28099694	28150963	26	3	34045
HAP1	17	39873994	39890896	60	6	48382
ZZZ3	1	78028101	78149104	180	19	44392
ZNF281	1	200374068	200379184	2	1	46772
FIZ1	19	56102746	56113336	24	7	46657
PTRH2	17	57751997	57784987	37	6	45791
RP5-966M:	3	52847298	52869745	56	6	49521
TMED4	7	44617493	44621886	10	3	46789
TRIM71	3	32859510	32939318	106	21	47653
SLC39A13	11	47428683	47438047	20	4	50663
CMPK1	1	47799469	47844511	91	8	51542
AC018470.	2	175200601	175202151	2	1	51215
CCZ1B	7	6833765	6866401	19	4	37994
PITRM1	10	3179920	3215003	150	16	50947
GPR68	14	91698876	91720269	67	6	48959
C11orf72	11	67370351	67374177	6	2	49225
SRF	6	43139037	43149243	11	3	45089
F10	13	113777128	113803843	50	16	39777
NUP88	17	5264258	5323480	223	8	47440
MGAT4B	5	179224597	179233952	20	4	42755
IBA57	1	228353516	228369958	18	4	50627
POLR2J	7	102113565	102119354	13	4	47553
MDM4	1	204485511	204542871	106	7	46275
KIAA0226	3	197398264	197476598	105	3	47848
GREM2	1	240652873	240775449	271	46	45477
NLRP13	19	56403065	56443702	160	19	50001
OR10C1	6	29407083	29408731	5	2	44323
HMGCL	1	24128375	24165110	38	3	50552
PGD	1	10458649	10480201	41	6	49961
FBXW8	12	117348761	117468953	156	8	46786
EDEM3	1	184659365	184724047	104	12	45038
HCRTR2	6	55039050	55147418	318	19	50533
OVCA2	17	1945327	1946724	5	2	50993
PHLDB3	19	43979106	44009087	72	13	48533
UQCR10	22	30163358	30166402	5	2	49111
DNM1L	12	32832134	32898486	223	4	53719
ITIH2	10	7745232	7791483	168	23	49700
PDE6A	5	149237519	149324356	200	28	48145
PRRC1	5	126853301	126890781	82	6	49249
AXIN1	16	337440	402673	201	19	49607
CIB2	15	78396948	78423886	86	13	49068
PNN	14	39644387	39652422	18	6	50878
ARC	8	143692405	143696833	12	3	51095
RFC1	4	39289076	39367995	99	8	47825
CDON	11	125825691	125933230	339	34	50823
GPR35	2	241544848	241570676	89	22	45752
HECTD1	14	31569318	31677010	114	10	49779
TCHHL1	1	152056620	152061540	1	1	50606
RP11-10A1	8	9009252	9025646	23	3	48420
DLGAP3	1	35331037	35395186	66	19	39537

MAN1B1	9	139981379	140003635	32	5	43540
KB-1507C5	8	103876528	103990104	287	26	51795
AL121895.1	20	34756461	34758180	4	1	48383
FJX1	11	35639735	35642419	2	1	41646
MAPK1IP1L	14	55518349	55536910	22	5	50010
UBL5	19	9938568	9940791	1	1	39938
OR4D1	17	56232494	56233517	4	2	51968
RFWD3	16	74655292	74700779	139	15	50024
OR5B3	11	58169937	58170882	8	1	51430
FAM57B	16	30035748	30064299	37	5	48276
SYT2	1	202559724	202679545	259	34	46472
REXO1	19	1815248	1848452	45	4	43334
APBB2	4	40812044	41218731	1308	72	49396
SNAP91	6	84262599	84419410	249	23	48432
FGFBP1	4	15937192	15940363	9	3	46484
C1orf226	1	162336698	162356600	64	18	47521
RCC2	1	17733256	17766220	61	8	50968
HLA-B	6	31321649	31324965	79	20	49817
MUC2	11	1074875	1104419	112	11	41610
KLK6	19	51461887	51472929	19	6	39939
ZNF431	19	21324827	21373034	74	8	47687
GLI3	7	42000548	42277469	752	74	49742
EIF3K	19	39109735	39127595	17	4	42782
SEC11C	18	56806709	56826068	62	8	48439
GSG2	17	3627211	3630067	9	2	48916
ADAD1	4	123300121	123350957	88	12	50279
TARSL2	15	102193801	102264807	123	13	50187
HTRA4	8	38831683	38846181	34	5	52069
ZNF324B	19	58962971	58969200	10	3	49462
MZT2A	2	132222473	132250316	100	6	46654
PHYH	10	13319796	13344412	89	15	48915
ANKLE1	19	17392454	17398455	28	3	49686
FAM206A	9	111696461	111713024	41	8	51914
DPM1	20	49551404	49575092	21	5	47616
POLG2	17	62473902	62493154	35	3	45290
YIPF5	5	143537723	143550278	39	6	51043
CDKN2A	9	21967751	21995300	30	7	44734
CHML	1	241792155	241799232	17	7	44495
GPSM2	1	109417972	109477167	149	17	50825
ATP13A3	3	194123401	194219093	128	10	47721
HIGD1A	3	42798669	42846023	76	11	48326
SMIM19	8	42396298	42409603	24	3	50500
FAF2	5	175874629	175937075	98	11	52191
RPL7A	9	136215069	136218281	9	2	50718
INVS	9	102861538	103063282	378	13	47705
POLE2	14	50110273	50155140	75	3	49361
C17orf85	17	3714460	3749545	49	7	40453
ZSWIM1	20	44509866	44513905	6	2	47255
ELK3	12	96588160	96663613	171	33	47680
NAA30	14	57857262	57882635	19	4	41395
FZD2	17	42634925	42636907	1	1	37925

IRX5	16	54964774	54968397	7	2	50974
FSHR	2	49189296	49381676	694	34	50357
RAMP1	2	238767536	238820756	180	32	44851
HEBP2	6	138724668	138743334	42	8	44914
MAPK9	5	179660143	179719099	152	19	51627
CCL4	17	34430983	34433014	11	2	49478
TRIB1	8	126442563	126450647	16	6	40918
RAB6C	2	130737235	130740311	2	1	46458
MST1	3	49721380	49726934	6	3	53589
SLC4A3	2	220492049	220506702	10	2	37243
TIMM22	17	900357	906911	10	3	41750
EFNA3	1	155036224	155060014	30	7	48596
KIRREL	1	157963063	158070052	300	47	47771
NRAS	1	115247090	115259515	12	3	50660
EMC10	19	50979657	50986608	12	4	45351
GPR158	10	25463991	25891155	1408	50	46690
UHRF1BP1	6	34759857	34850915	227	15	48423
THNSL2	2	88469835	88486146	30	8	49609
EXOSC5	19	41892279	41903384	17	2	50713
GSDMA	17	38119226	38134019	40	6	51891
SDCBP	8	59465483	59495419	43	3	53878
DKFZP761J	19	11466062	11476374	8	3	45042
FAM124A	13	51796503	51858377	142	25	49590
Sep-11	4	77870856	77961537	208	18	49234
SCARF1	17	1537152	1549041	20	5	42752
NUTM2F	9	97077605	97090926	13	5	46034
RBM6	3	49977440	50137478	239	14	50807
COPZ2	17	46103533	46115392	22	8	50085
CLN3	16	28477974	28503333	15	2	47458
TPRX1	19	48304500	48322308	67	11	46853
GTF3C6	6	111279763	111289093	55	4	50421
ZNF788	19	12203078	12225491	35	5	46543
ATP5C1	10	7830092	7849778	47	6	50822
MRPL20	1	1337288	1342693	4	1	37939
OSBPL5	11	3108346	3187969	337	37	44063
SPOCK2	10	73818793	73848790	79	8	48188
USP2	11	119225925	119252436	47	8	48008
ZNF738	19	21541732	21562104	77	5	49788
DUPD1	10	76797594	76818272	38	8	44368
AMY2B	1	104096437	104122156	23	8	47629
EPN3	17	48609904	48621111	32	10	46264
TRPS1	8	116420724	116821899	430	19	49721
WDR6	3	49044495	49053386	5	2	47138
PPP1R13L	19	45882892	45909607	44	11	45247
MMP24	20	33814457	33864801	60	9	47826
RP11-171N	4	157555646	157563606	20	6	51292
PTPN4	2	120517207	120741394	334	13	49343
AP000349.	22	24124467	24126145	3	1	51540
ZNF746	7	149169885	149194908	32	4	52752
CWF19L2	11	107197071	107328572	396	23	49445
HLA-E	6	30457244	30461982	8	4	42426

MX2	21	42733870	42781317	109	24	43661
SCML4	6	108025308	108145521	331	23	49973
RNF219	13	79188426	79233314	82	7	50950
AGA	4	178351924	178363657	29	9	47554
C6orf226	6	42858005	42858554	1	1	49605
CCDC78	16	772582	776954	9	2	39357
RP11-738G	8	50448945	50466973	22	3	50560
ANXA3	4	79472673	79531597	121	14	48638
MEIG1	10	15001438	15030049	154	9	49670
AXIN2	17	63524681	63557765	65	13	42621
OC90	8	133036467	133097902	162	19	49801
RIBC2	22	45809572	45828376	51	5	48369
CCDC33	15	74509613	74628813	271	25	47154
PARM1	4	75858305	75975325	166	17	47964
EFNA3	1	155036224	155059283	28	7	48742
POLR2C	16	57496299	57505922	25	8	47142
GUCA1C	3	108626639	108672742	158	20	51511
CSTA	3	122044091	122060819	45	8	50970
SLC39A3	19	2732202	2740150	16	4	41280
GIMAP2	7	150382785	150390729	18	5	52321
FAM181B	11	82443053	82444906	7	2	46947
HSF4	16	67197288	67203848	3	2	39740
RP11-257K	6	73919469	73972919	143	19	50236
SEMA3E	7	82993222	83278326	879	37	50958
CA11	19	49141199	49149569	11	3	37094
OR1C1	1	247920676	247921982	4	2	43763
GAS1	9	89559279	89562104	3	1	49806
JAK2	9	4985033	5128183	316	11	50114
VSIG10	12	118501398	118573831	212	35	48544
GNA13	17	63006833	63052957	15	3	41006
EPB41L1	20	34679426	34820721	127	13	45893
LY6H	8	144239331	144242128	5	2	46060
KCNC3	19	50815194	50836772	33	11	38848
RPL19	17	37356536	37360980	4	2	45643
LRRC71	1	156890442	156902886	29	4	47893
HAUS2	15	42841008	42862192	34	6	48833
RPL23	17	37004118	37010096	11	5	47316
SLITRK3	3	164904508	164914897	16	4	47868
ME3	11	86152150	86383678	831	45	51529
RAB4B	19	41284121	41302847	60	12	49284
WDR37	10	1095478	1178237	219	26	49967
SMIM23	5	171212876	171221602	18	4	50228
AC018867.	2	187361840	187365393	10	3	53169
EID3	12	104697517	104698980	2	1	49955
PCDP1	2	120302008	120419827	158	12	51184
CRISP1	6	49801970	49844809	113	9	52646
ACTR1A	10	104238986	104262482	65	4	53614
FABP2	4	120238405	120243545	34	3	53479
PLCL2	3	16844159	17132086	675	32	51548
LRRC47	1	3696784	3713068	63	10	44202
ZBTB7C	18	45553044	45937123	1243	143	49458

SCGB2A1	11	61976140	61981408	6	2	51113
RP11-180C	4	28363901	28404486	126	15	49370
ST8SIA6	10	17360382	17496329	642	30	50194
GPHA2	11	64701943	64703360	2	1	41834
ZNF808	19	53030905	53067717	114	7	48814
CAPN12	19	39220827	39260544	131	13	51937
CXCL12	10	44793038	44881941	341	35	49365
PAX6	11	31806340	31839509	42	6	49718
TBC1D19	4	26578059	26756973	120	5	46263
EPS15	1	51819935	51985000	450	19	45600
PRRG4	11	32851489	32879669	74	11	52841
CDH13	16	82660408	83830204	5973	304	49425
ANKMY2	7	16639401	16685442	161	19	47495
FGF3	11	69624992	69633792	37	5	52921
MAP3K9	14	71189243	71276251	279	21	49118
ZNF66	19	20959110	20991922	232	12	52211
KLHL23	2	170550998	170633499	315	22	52469
SDC1	2	20400558	20425194	59	8	51033
ARID1A	1	27022524	27108595	103	6	51470
CIC	19	42772689	42799949	17	2	49231
ENPP7	17	77704681	77716021	32	7	39267
TENM4	11	78363876	79151992	1853	182	48334
EPHA1	7	143087382	143105985	43	13	46963
CSF2	5	131409483	131411859	4	2	47018
NCAPG	4	17812525	17846485	58	6	49832
TRAPPC10	21	45432200	45526433	169	8	48656
NTN5	19	49164664	49176338	25	5	40782
CA4	17	58227297	58248260	20	4	41497
PDSS2	6	107473761	107780768	570	34	50383
KLK3	19	51358171	51364020	39	9	50430
WASL	7	123321989	123389121	136	13	51059
INCA1	17	4891425	4900905	22	6	48726
COG6	13	40229764	40365802	343	17	52553
SCNM1	1	151129140	151142773	9	4	44806
PPP1R1B	17	37782993	37792879	22	5	39718
VOPP1	7	55503749	55640681	586	10	40448
INTS1	7	1509913	1545489	89	2	48554
CD74	5	149781200	149792492	20	6	47207
JAGN1	3	9932238	9936033	9	3	47092
DPYD	1	97543299	98386605	1840	100	48837
ZNF777	7	149128454	149158214	49	7	49046
POPDC2	3	119355304	119384171	102	12	50852
IL31	12	122656577	122658746	6	2	49941
SLC7A8	14	23594504	23652883	118	25	44649
MFAP4	17	19286755	19290553	1	1	35463
GPAM	10	113909624	113975135	107	12	48209
GYPE	4	144792020	144826716	54	6	50096
SDC3	1	31342314	31381608	66	20	46661
SLC1A7	1	53552855	53608289	240	26	49439
TRIM68	11	4619902	4629489	34	6	50895
LGALS8	1	236681300	236716281	166	7	42378

SWAP70	11	9685624	9774538	261	10	50776
TMEM256	17	7306294	7307456	4	2	42409
CDK3	17	73996987	74002080	9	3	41599
CMTM5	14	23846017	23848981	6	3	39334
OTX2	14	57267425	57277197	7	2	48075
ZBED2	3	111311747	111314290	3	1	44651
ZNF551	19	58193337	58228669	69	13	50126
ADI1	2	3501132	3523507	71	5	50320
C2orf88	2	190744335	191068210	590	43	47939
SC5D	11	121163162	121179403	14	3	50398
RANBP2	2	109335937	109402267	62	4	50322
TMEM174	5	72469022	72470970	4	1	47172
ADAM9	8	38854388	38962663	186	17	50577
KRTAP3-2	17	39155447	39156138	8	2	45973
KCNA3	1	111214310	111217655	1	1	47223
C4orf46	4	159587831	159593407	2	1	39600
ABCC12	16	48116884	48189929	40	6	43210
ADAMTS18	16	77281710	77469011	903	48	50873
HIF3A	19	46800303	46846690	155	27	47272
GCNT1	9	79034752	79122332	317	26	52941
ROR2	9	94325373	94712444	1373	75	49710
RP11-433C	3	184119325	184157436	142	22	51636
JAKMIP3	10	133918175	133998313	317	33	48558
AL359736.1	13	24895264	24895566	1	1	52332
GOSR2	17	45000483	45105003	305	18	51162
OR5I1	11	55702932	55703876	8	2	47496
CYP51A1	7	91741465	91772266	46	2	51356
SETD2	3	47057919	47205457	115	7	47998
FAM65C	20	49202645	49308065	267	31	45366
TM9SF4	20	30697309	30755061	97	8	49530
SIX3	2	45168902	45173216	14	4	47436
ATG12	5	115163893	115177555	18	4	47097
SELT	3	150320662	150348222	51	11	52140
IL7R	5	35852797	35879705	80	7	53161
GNPDA1	5	141371314	141392606	79	6	51289
BEND4	4	42112955	42154895	73	7	49704
MXD1	2	70124820	70170077	67	4	48532
TRIM6-TRIM6	11	5617955	5665628	174	29	49023
MON1B	16	77224732	77236302	44	8	48610
NUDT9	4	88343734	88380606	84	12	51957
CCZ1	7	5938356	5965605	30	8	44355
TEX2	17	62224587	62340661	257	13	46403
CA2	8	86376081	86393722	17	4	44671
DICER1	14	95552565	95624347	80	11	48205
AHSA2	2	61404553	61418338	21	6	49891
LRRC49	15	71145578	71342414	170	15	48958
RIPPLY2	6	84562985	84567234	11	2	47645
SLC35G1	10	95653730	95715819	65	4	52176
KIF13B	8	28924796	29120641	355	28	49350
COX18	4	73921797	73935472	12	4	46832
SHE	1	154442248	154474589	34	5	46674

SEL1L2	20	13829893	13977089	360	34	51846
ZNF552	19	58315209	58326281	20	5	51790
BZW1	2	201675317	201688569	15	4	48044
TBCD	17	80709940	80900724	584	23	50678
TBC1D4	13	75858808	76056250	444	54	48869
AMDHD1	12	96337071	96362370	93	8	51991
GDF1	19	18979361	19006905	49	11	45408
CERS1	19	18979361	19007536	49	11	45408
HMBOX1	8	28747911	28922281	181	17	48855
FOX12	10	129535499	129539450	6	1	52518
TXN2	22	36863083	36878077	57	8	49241
ANKRD1	10	92671853	92681033	10	4	49184
NPFFR2	4	72897521	73013784	94	7	50056
AFF4	5	132211071	132299326	164	10	51592
CD164	6	109687717	109703762	35	4	52280
TRPM1	15	31293264	31453476	481	62	50468
FANCD2OS	3	10123001	10149915	54	3	48237
ZFHX4	8	77593454	77779521	329	28	45346
RHOG	11	3848208	3862213	38	6	50936
TTC24	1	156549519	156556562	15	3	46648
IDH3B	20	2639041	2644865	12	2	52039
GBA2	9	35736863	35749983	11	5	48118
FBXO27	19	39481354	39523425	168	12	52672
PSMD12	17	65334032	65362743	44	9	50926
EFCAB3	17	60447579	60493837	44	7	45975
TRIM49C	11	89764274	89806558	2	1	40028
TMEM17	2	62727356	62739029	46	9	53233
TWISTNB	7	19735085	19748710	35	7	44285
PAXIP1	7	154735397	154794794	88	6	51804
SLC43A2	17	1472561	1532180	139	28	40035
XYLT2	17	48423453	48440499	39	6	48651
CR1	1	207669492	207813992	220	20	50768
ZNF835	19	57174020	57183151	45	6	50464
CERS4	19	8271620	8327305	181	32	43808
IRF5	7	128577666	128590089	30	7	51753
STPG2	4	98105244	99064391	1978	28	52270
CAP2	6	17393447	17558023	349	32	47604
CD79A	19	42381190	42385439	4	2	42349
GJB5	1	35220648	35224113	8	3	37988
CLEC2D	12	9817565	9848413	104	12	50364
PSMD5	9	123577774	123605262	31	5	50479
MAP7D1	1	36621180	36646450	23	4	46037
KIAA1614	1	180882290	180920750	94	22	48970
PTK2B	8	27168999	27316903	364	21	49340
PIK3CB	3	138372860	138553780	180	8	46963
MCCC2	5	70883115	70954531	122	11	51444
C19orf12	19	30191721	30206364	45	10	48851
OTP	5	76924538	76935513	23	4	48960
NDRG1	8	134249414	134314265	216	34	49109
MAP3K3	17	61699775	61773663	64	3	48377
EPHA2	1	16450832	16482582	48	10	41997

HIST1H2BG	6	26216428	26216872	2	1	55273
NUDT1	7	2281857	2290781	35	9	47656
NR1H2	19	50832910	50886239	82	7	45181
BICC1	10	60272900	60591195	521	26	51058
SIGLEC12	19	51994611	52005043	80	13	50521
OR8J3	11	55904247	55905194	5	2	53818
PRRG2	19	50083903	50094272	25	4	44477
TPD52L1	6	125440195	125585553	400	30	46757
C22orf34	22	49808176	50051190	829	62	46083
SIX4	14	61176246	61191066	9	3	46234
GAD1	2	171669723	171717661	106	13	45960
MAN2A2	15	91445448	91465814	41	6	47485
RHOH	4	40192673	40248587	148	25	47436
OR6K2	1	158669369	158670486	1	1	39543
THAP8	19	36525887	36545664	39	8	50167
UBXN4	2	136499189	136542625	75	7	47659
DCTN4	5	150088002	150138671	69	3	46337
CASP2	7	142985308	143004789	12	4	45171
HEY2	6	126068810	126082415	20	3	48753
PYGO1	15	55831088	55881145	168	12	50270
KCNH2	7	150642049	150675403	73	12	46351
OR4E2	14	22133297	22134238	4	2	51593
GID4	17	17942606	17971718	46	3	46735
FBXO21	12	117581146	117628336	141	7	52819
PLOD2	3	145787227	145881440	243	13	53390
MRGPRX4	11	18194384	18195827	7	2	53472
RILP	17	1549444	1553371	7	2	43019
SIGLEC15	18	43405477	43424045	37	8	46193
IL18	11	112013974	112034840	38	8	50037
ITPK1	14	93403259	93582665	451	33	46148
CAMK1D	10	12391481	12877545	1581	152	50136
PYURF	4	89442136	89444964	2	1	36912
ENDOU	12	48103517	48119350	43	9	50359
PRKCA	17	64298754	64806861	1548	98	50162
TUBB3	16	89985573	90002500	50	9	44260
ZNF749	19	57946697	57956853	21	8	45104
SLX4IP	20	10415951	10617477	531	26	49717
METTL16	17	2308856	2415185	160	27	46927
OR56A1	11	6047901	6048971	1	1	49358
TTC7A	2	47143296	47303276	646	51	50049
MYO19	17	34851477	34899284	70	8	50310
ITPRIP	10	106071894	106098162	52	9	45251
IL32	16	3115298	3131908	50	6	43558
PAM	5	102089685	102366809	551	20	45079
C7orf31	7	25174316	25219975	192	14	48998
LYPD6B	2	149894621	150071776	495	35	50221
SCO1	17	10583654	10601692	21	2	50337
CDYL2	16	80631803	80838226	640	47	47307
PSMD4	1	151227179	151239955	14	3	48938
FRS2	12	69864129	69973562	247	18	49917
TMCO3	13	114145310	114204542	365	11	47871

SMARCD1	12	50478755	50494495	13	2	47499
RCOR3	1	211431719	211489727	158	19	46791
PRED62	21	47347679	47352477	14	3	52496
SLC29A4	7	5314000	5346501	125	18	42462
NDST2	10	75561669	75571589	9	3	45243
ACHE	7	100487615	100494594	13	5	47055
NRXN3	14	78708734	80330762	3342	185	48955
PCMT1	6	150070579	150132556	132	3	48130
TGM2	20	36756863	36794980	73	9	47883
AL162431.	1	180941695	180949868	9	2	53249
SLC17A7	19	49932658	49945617	18	6	38406
SIK2	11	111473115	111601577	129	5	47530
OR2B3	6	29053985	29055090	2	1	42893
ARHGAP31	3	119013220	119139561	416	50	50015
ATP6V1D	14	67761088	67826982	178	9	41031
RFPL2	22	32586422	32600718	45	8	50082
SLC6A3	5	1392909	1445545	140	20	45557
NUB1	7	151038785	151075535	125	20	46298
BFAR	16	14726672	14763093	33	9	46592
ALG1L	3	125648118	125655882	31	3	49211
MMP2	16	55423612	55540603	521	39	48945
RPL37A	2	217362912	217443903	208	29	45560
CLEC1A	12	10222153	10264226	135	6	42194
AMOTL1	11	94439597	94609918	233	25	46091
ZFR2	19	3804022	3869030	157	16	44748
MYH6	14	23851199	23877486	54	12	47226
GPS1	17	80008567	80015346	9	2	41508
TEX12	11	112038095	112043282	11	3	52819
CDCA5	11	64833772	64851636	34	9	44466
AC004381.	16	20817751	20860987	45	8	48060
AP001631.	21	44579176	44582387	8	2	45891
ANKRD17	4	73939093	74124515	114	19	46673
C20orf141	20	2795633	2796479	2	1	50302
ZFAND6	15	80351910	80430735	172	17	49941
ZNF559	19	9434448	9461838	50	4	50496
FAM194A	3	150377672	150421758	98	20	48947
NUPR1	16	28548606	28550495	7	2	41025
IQCB1	3	121488610	121553926	200	13	52636
PNPLA1	6	36210980	36276372	170	33	49527
PPCDC	15	75315896	75409803	232	18	50822
CNEP1R1	16	50058321	50070999	27	4	51457
PPFIA2	12	81652045	82153332	1051	52	50216
AC008948.	5	101569696	101571279	3	1	51174
TXNDC2	18	9885763	9889272	20	7	48636
OR6C2	12	55845998	55846936	1	1	49124
AC091150.	18	45778672	45779208	2	1	37675
CATSPER1	11	65784223	65793988	21	4	50620
IGSF6	16	21652609	21663981	12	5	46871
B4GALNT2	17	47209822	47247351	90	19	47779
AC099344.	2	11603927	11606274	6	2	37676
PSMA1	11	14515329	14541890	42	8	48154

GOSR1	17	28804380	28854610	46	6	48279
USP7	16	8985951	9058371	156	13	50404
HIST1H2AA	6	25726291	25726790	5	2	44110
RNF38	9	36336393	36487545	200	24	48432
SLC35D3	6	137243402	137246777	3	2	49800
FAM170B	10	50339199	50342053	13	3	52634
DDA1	19	17420327	17434110	49	8	49976
ADAM7	8	24298443	24384483	207	21	51416
SERTM1	13	37248049	37271976	47	9	44307
HTR1F	3	88039846	88042919	5	3	38393
YTHDC1	4	69176105	69215807	53	10	46488
RP11-152F1	15	83208783	83224682	24	7	48811
PIGR	1	207101863	207119811	25	5	44113
EGFL8	6	32132360	32136058	10	4	48125
ZNF76	6	35226686	35263762	67	7	45805
SIK3	11	116714118	116969153	832	24	47016
COL4A3BP	5	74664311	74807963	214	17	50718
AC093323.	4	6693782	6694189	2	1	37884
TNFRSF6B	20	62328021	62330037	9	2	44375
C12orf71	12	27233991	27235447	10	4	50965
XRCC4	5	82373317	82649606	511	20	46933
ZNF345	19	37341263	37403931	116	9	50714
IGFL2	19	46646363	46664556	33	6	44813
SIM2	21	38071433	38122218	113	25	44531
GRASP	12	52400724	52409673	12	7	44178
ABHD8	19	17402940	17421045	53	9	51220
ZNF426	19	9638667	9649303	16	2	47817
MUC3A	7	100547257	100550424	11	4	47328
PLXDC1	17	37219556	37310647	307	26	50592
STOML1	15	74275547	74286963	25	6	49545
FXYD3	19	35606732	35615228	25	5	50499
PCSK1	5	95726119	95769847	62	8	51531
TBC1D16	17	77906142	78009647	258	56	42748
TMEM9	1	201103900	201140702	119	18	50784
TLE1	9	84198598	84304220	301	59	47591
C1orf213	1	23695490	23698332	3	2	49985
NUDT8	11	67395409	67397401	4	2	53286
RPA3-AS1	7	7680342	8043689	1446	124	50154
RIT2	18	40323192	40695657	756	41	50052
CRTAP	3	33155471	33189265	67	10	49343
PM20D2	6	89855769	89875284	44	5	48656
ZFP1	16	75182390	75206134	94	8	45996
PKM	15	72491370	72524164	37	6	46046
CPA2	7	129906667	129929638	61	9	50186
GRWD1	19	48949030	48960279	38	6	37908
SAMD8	10	76859344	76941881	147	15	48694
GPR183	13	99946784	99959659	23	8	50577
TYMP	22	50964181	50968485	10	4	43228
DOCK2	5	169064251	169510386	1268	97	48812
ANO6	12	45609770	45834187	397	17	44683
CDC42EP2	11	65082289	65089900	8	3	49202

ANO5	11	22214722	22304903	118	7	47523
ZNF224	19	44598492	44612479	41	4	48177
HS3ST1	4	11394774	11431389	105	32	45327
PLXNA1	3	126707437	126756235	124	13	51719
FLT4	5	180028506	180076624	191	28	43409
C14orf39	14	60863187	60982261	191	9	46556
IRF2BP1	19	46386866	46389376	4	2	42702
MSGN1	2	17997763	17998368	2	1	49983
PHLDA2	11	2949503	2950685	2	1	45697
ADORA2A	22	24813847	24838328	42	9	42854
ZMAT5	22	30126945	30163000	99	10	51848
EDC3	15	74922899	74988633	49	9	44360
ZBBX	3	166958075	167099134	305	20	49769
VHLL	1	156268415	156269428	2	1	52236
SPR	2	73114489	73119287	1	1	48389
PITPNM2	12	123468027	123634562	134	14	45406
SDC2	8	97505579	97624000	314	37	49883
GPRC5D	12	13093709	13105081	29	8	46433
VSIG2	11	124617368	124622134	9	3	47025
UBE2D4	7	43966037	43995735	73	11	52312
C15orf65	15	55700746	55710962	36	6	47559
ECHDC2	1	53361656	53392884	26	6	42838
LCAT	16	67973653	67978034	3	2	41142
LRRC3B	3	26664297	26752267	171	21	50114
GTPBP8	3	112709765	112733907	51	12	43996
GPRIN1	5	176022803	176037134	16	6	41935
TAGAP	6	159455500	159466184	39	5	46678
TNPO3	7	128594948	128695198	185	19	51266
RIN2	20	19867165	19983101	359	44	47909
PGAM5	12	133287405	133299228	44	11	46947
DHDH	19	49436939	49448226	28	3	42797
RP11-234B	12	4766800	4853747	243	24	51745
PTCH1	9	98205262	98279339	119	10	49437
PITPNM3	17	6354584	6459814	290	22	50319
XXYL1	3	194789008	194991896	587	34	48671
FOXO1	13	41129804	41240734	199	13	47572
HMGCS1	5	43289497	43313614	32	3	51522
PRED57	21	46511596	46515493	16	5	49341
ATP5J2-PTC	7	99017372	99063820	67	6	48614
SREBF2	22	42229109	42303312	141	18	48321
ZNF616	19	52616344	52643175	72	9	45409
RYBP	3	72420976	72496069	63	13	49052
CCDC30	1	42929001	43120335	533	17	53264
PRPF19	11	60658202	60674060	25	4	47277
GATSL3	22	30681106	30685616	6	3	49678
LYSMD1	1	151132224	151138424	4	2	50199
MED7	5	156564423	156586030	67	7	51607
C19orf48	19	51300961	51308186	37	7	43301
MKRN1	7	140152840	140179369	64	4	45580
TRPV4	12	110220890	110271212	123	19	46780
AKR1C1	10	4934796	5025475	324	23	47954

ZNF624	17	16524051	16557170	78	6	52189
STX16-NPE	20	57226490	57290466	146	18	50413
EIF5A2	3	170606204	170626482	35	6	51555
RIC3	11	8127597	8190602	178	16	51408
CMKLR1	12	108681821	108733118	150	27	48457
ORM2	9	117092149	117095532	4	1	51972
LCLAT1	2	30670092	30867091	614	18	51979
CTSL	9	90340434	90346308	15	5	49889
TOR1B	9	132565432	132573560	19	4	48417
TMEM247	2	46656329	46711564	150	14	42215
CD69	12	9905082	9913497	26	7	50833
KRTAP9-9	17	39411636	39412616	1	1	53085
CILP2	19	19649057	19657468	17	2	49698
BCL3	19	45250962	45263301	19	6	39161
ALG6	1	63833261	63904233	141	15	51257
MFHAS1	8	8640864	8751155	424	28	48386
TBX10	11	67398774	67407031	26	4	49450
MAPK8IP3	16	1756184	1820318	102	11	47306
MDM1	12	68666223	68726161	91	13	50048
KIAA1644	22	44639547	44708731	223	40	46175
AK3	9	4711155	4742043	151	17	49175
DEFB110	6	49976851	49989694	12	3	50053
WDR25	14	100842755	100996640	167	20	45716
AFP	4	74296855	74321891	40	7	50003
OR5AR1	11	56431138	56432163	3	2	43396
RP11-126K	1	151252500	151254405	3	2	44295
LMAN1	18	56995055	57027194	87	9	52776
PIGL	17	16120505	16252115	197	11	46660
ACAA2	18	47309869	47340330	55	9	51837
TFPI2	7	93514709	93520303	17	2	40436
PNPLA7	9	140354404	140444986	79	17	38795
FCGBP	19	40353963	40440533	132	19	46136
GKAP1	9	86354336	86444431	142	9	52053
HMGB4	1	34326076	34330392	8	4	45515
SSTR2	17	71161151	71167185	12	2	46381
IQCJ	3	158680717	158984096	555	33	50864
ZFP91-CNT	11	58346645	58392112	62	10	51573
MEGF9	9	123363091	123476748	99	8	45890
BRDT	1	92414928	92479983	164	12	49708
MED21	12	27175479	27219276	118	16	50828
TSLP	5	110405760	110413722	12	4	48597
EXTL2	1	101337943	101361554	24	7	49074
OR4D5	11	123810250	123811344	2	1	48977
SCN7A	2	167260083	167350757	215	23	50826
ZNF850	19	37205285	37263727	106	11	51499
STOM	9	124101355	124132531	66	12	47710
RIN1	11	66097713	66104311	18	5	46475
PPP6R1	19	55741148	55770363	46	12	42390
FAM221B	9	35816388	35828744	18	4	46393
TOMM6	6	41755400	41757636	3	2	45325
POLD4	11	67118248	67124443	7	2	47690

EPHA6	3	96533425	97471304	953	47	46200
OSTM1	6	108362613	108487058	252	29	45580
BNIP3	10	133781578	133795435	25	5	52481
RNF34	12	121837844	121868389	68	4	46456
hsa-mir-111	19	14183348	14185874	3	1	35305
AMER3	2	131513008	131525707	3	1	36314
HKDC1	10	70980059	71027315	158	27	49818
KHDRBS2	6	62389865	62996132	1206	32	52445
HOXC6	12	54384408	54424607	51	9	48381
SULT1C2	2	108905095	108926371	57	12	45152
OR52E8	11	5877904	5878964	2	1	50469
KATNAL2	18	44497455	44627658	266	17	49368
TACR2	10	71163659	71176623	29	6	47210
LINC00935	12	49121218	49159569	74	12	45394
LCE2B	1	152647771	152659877	31	4	48937
OR52L1	11	6007122	6008215	10	3	47887
FBXO24	7	100181605	100198740	16	6	44645
RAF1	3	12625100	12705725	182	15	50192
CCRL2	3	46448654	46454488	18	4	48413
SNAPC5	15	66782473	66790151	14	6	47594
UBE2D3	4	103715540	103790053	124	6	51058
KDELR1	19	48885827	48894810	19	5	48106
MIER2	19	305575	344798	164	11	49116
CYR61	1	86046444	86049645	6	3	46639
PVALB	22	37196728	37215523	64	10	48089
FBXW11	5	171288553	171433877	115	7	43829
ABCB6	2	220074490	220083712	6	2	37105
GPATCH8	17	42472652	42580798	131	9	47861
FMOD	1	203309756	203320617	29	7	47228
SBP1	6	33663196	33663474	2	1	49089
RBBP5	1	205055270	205091143	92	12	47488
NFE2L2	2	178092323	178257425	286	18	50085
KCNG3	2	42669157	42721237	123	21	51164
ZNF878	19	12154620	12167127	20	2	43403
TRIM49	11	89530823	89541743	2	1	50536
FKBP1A	20	1349622	1373806	54	10	49917
PABPC3	13	25670300	25673389	2	1	49353
DNAH12	3	57327727	57530071	639	23	50238
FP15737	8	23430157	23432974	13	2	50991
TMEM106A	17	41363854	41372061	9	2	51777
F2RL2	5	75911307	75919259	22	6	43326
EFCC1	3	128720472	128759585	43	9	47011
HDGF	1	156711899	156736717	51	11	47731
WDR38	9	127615755	127620160	7	2	47384
PRR3	6	30524663	30531500	13	5	42995
MYLPF	16	30382255	30389312	6	2	44270
CDKL2	4	76503215	76555900	107	10	49669
LYRM5	12	25348150	25362579	37	7	47594
PPT2-EGFL3	6	32121622	32139755	46	15	47186
TMEM136	11	120195838	120204391	12	3	50657
USP19	3	49145479	49158371	6	1	46992

DACT2	6	168693510	168720434	91	22	47090
ARHGEF38	4	106473777	106629250	338	26	47904
ELF3	1	201977073	201986316	20	6	45404
OPALIN	10	98102973	98119092	50	8	46340
SRRT	7	100472733	100486285	25	5	46106
TRMT61B	2	29072687	29093167	27	5	49667
ZDHHC4	7	6617065	6629005	29	4	50606
C11orf83	11	62437745	62441159	7	1	49100
ANKRD30B	18	14728271	14852737	222	14	44210
OR2M4	1	248402231	248403166	1	1	47998
DHH	12	49483204	49488602	5	3	43387
IFIT1B	10	91137813	91144962	11	3	46717
ATAD1	10	89511269	89601100	143	9	51877
SEMA4A	1	156117157	156147543	47	9	47222
TAF5L	1	229728858	229761794	73	9	51106
TRMT44	4	8437867	8495258	157	19	49111
TCF20	22	42556019	42739622	347	28	48779
GSTM1	1	110230436	110251661	26	7	40644
CCKBR	11	6280966	6293357	49	8	47821
PDHX	11	34937376	35042138	382	16	48032
AC103801.	11	22646860	22647369	1	1	48349
GRXCR1	4	42895284	43032675	421	34	50510
PIRT	17	10725792	10741762	35	7	50580
SYT11	1	155829300	155854990	30	6	47412
SLC9A4	2	103089762	103150431	234	15	52753
RPIA	2	88991162	89050452	117	6	48485
C2orf69	2	200775979	200820658	84	12	51032
CCNE2	8	95891998	95908906	44	9	48920
RNF139	8	125486979	125500155	21	6	51859
RPL35	9	127620159	127624260	4	1	51157
GLB1	3	33038100	33138722	319	25	49520
RFX8	2	102013823	102091165	296	13	49382
PRR5	22	45064593	45133561	304	42	44015
AKAP5	14	64932217	64941221	10	4	47056
CEP63	3	134204585	134293859	185	5	52482
SPIB	19	50922195	50934570	36	9	41718
HIST2H2BE	1	149856010	149858232	2	1	47942
SNRPN	15	25068794	25223870	527	77	47970
AIRE	21	45705721	45718531	29	8	38767
EME1	17	48450581	48458844	12	4	46497
SYT16	14	62453803	62568431	410	47	49928
OR5M3	11	56236964	56238014	4	2	50435
OR10Z1	1	158576229	158577170	3	2	48541
C6orf120	6	170102233	170106401	7	3	42745
PANK2	20	3869486	3907605	73	8	51856
AKT1S1	19	50372295	50381716	12	2	46586
CHP1	15	41523037	41574043	106	11	49898
KIF3A	5	132028320	132073330	69	4	41604
REM1	20	30063096	30072708	12	4	46464
XPO1	2	61704984	61765761	85	8	51087
ZNF208	19	22115760	22193751	203	10	52288

RBM48	7	92158087	92167319	17	5	45748
ICOS	2	204801471	204826300	57	13	49468
MYL1	2	211154874	211179914	48	6	50865
ZNF33B	10	43084555	43133992	99	10	49523
PPP1R36	14	65016620	65056098	97	14	51674
FN1	2	216225163	216300895	201	20	48191
NUDT12	5	102884556	102898494	37	6	52833
XCL2	1	168510003	168513235	12	4	46633
DCHS1	11	6642556	6677085	75	15	44981
POMGNT1	1	46654354	46685977	42	7	48372
ANKRD33	12	52281744	52285448	16	5	49989
TPRXL	3	13978756	14124311	252	13	49603
VRK3	19	50479724	50529203	126	12	51053
TRIQK	8	93895758	94029901	226	27	47490
OR5H1	3	97851542	97852483	2	1	46779
LMO3	12	16701307	16763528	46	12	43938
TPT1	13	45911008	45915505	12	4	44120
ENO3	17	4851387	4860426	8	3	48797
DMAP1	1	44679127	44686353	10	4	49083
NTRK1	1	156785432	156851642	115	18	43994
HOXC12	12	54348618	54352740	13	3	47964
KLF15	3	126061478	126076285	20	6	50749
MT1H	16	56703726	56705041	5	3	48692
NOL11	17	65713949	65740647	68	5	48802
SH2D4B	10	82297658	82406316	411	36	50916
C1orf200	1	9712668	9714644	4	1	46662
RHAG	6	49572871	49604552	115	13	50917
CST11	20	23431040	23433494	2	1	42725
PXK	3	58318607	58411748	365	16	52245
CCM2	7	45039074	45116068	235	16	48840
RER1	1	2323267	2336883	34	10	41125
CTD-2583A	19	58388133	58427959	72	10	51167
SH3BGRL3	1	26605667	26608007	5	2	49588
CSHL1	17	61986957	61996198	14	2	50761
PAXBP1	21	34106210	34144169	43	10	49027
HSCB	22	29138019	29153503	28	7	49895
ARHGAP30	1	161016736	161039760	41	9	46761
RP11-603J2	12	56495115	56503073	6	2	46878
PTPRC	1	198607801	198726545	281	22	46507
SEC16A	9	139334549	139372141	67	9	49009
MTMR2	11	95566046	95658479	204	19	46036
CDK2AP1	12	123745528	123756881	28	7	48032
BRSK2	11	1411129	1483919	293	26	49462
AC069547	10	52094298	52095876	4	2	48133
CTNNA2	2	79412357	80875905	3987	261	49446
COL7A1	3	48601506	48632700	23	7	42265
SLC26A6	3	48663156	48672926	12	2	45628
ATG14	14	55833110	55878576	123	9	52705
OR51B5	11	5363744	5364809	8	2	47450
C1orf180	1	85093913	85100703	13	4	49909
IL18BP	11	71709587	71716761	5	2	39711

OR2B6	6	27925019	27925960	3	1	40972
ODF3L2	19	463346	474983	20	3	34625
PTGER2	14	52781023	52795324	39	6	49583
AC012313.	19	58907457	58908407	2	1	47789
PLCE1	10	95753746	96092580	605	46	48555
ADH4	4	100044808	100078949	193	8	49296
KLHL20	1	173684080	173755840	69	9	49109
PPIG	2	170440850	170497916	176	14	52748
PDLIM4	5	131593364	131609147	39	6	50414
CCL15	17	34323476	34329084	19	5	46959
APBB1	11	6416355	6440644	35	11	45514
ZSCAN18	19	58595205	58629794	140	11	49229
FLG2	1	152321211	152332482	15	2	46284
ZNF528	19	52901102	52921665	25	3	43044
C20orf173	20	34111014	34117481	11	3	49184
UGCG	9	114659046	114697649	153	24	49252
IQCG	3	197615946	197687013	163	12	49135
OR2A5	7	143747461	143748473	4	1	47815
TMEM80	11	695428	705028	37	10	44829
RP11-6L6.2	4	147145709	147150208	5	2	48563
AC109829.	2	27760253	27790011	42	6	49554
CELA1	12	51722227	51740463	34	5	51028
ELMSAN1	14	74181825	74256988	173	28	48316
CTC-479C5	16	67963517	67969920	3	1	45090
QRICH2	17	74270130	74303761	106	11	46457
CCND1	11	69455855	69469242	19	4	41498
PANX3	11	124481386	124490252	7	4	35106
USH1G	17	72912176	72919351	2	1	49075
RP11-212D	11	114271404	114314654	114	14	51538
CPZ	4	8594387	8621488	148	18	47659
CD300C	17	72537247	72542282	16	4	46816
MAST4	5	65892176	66465423	1252	71	49185
RFXANK	19	19303008	19312678	14	3	47812
PPP2R2D	10	133747955	133773331	53	6	52017
TMEM204	16	1578689	1605581	86	9	50131
SH3D21	1	36771988	36790484	15	3	43713
GJB6	13	20796110	20806534	19	6	44635
GTSE1	22	46692638	46726707	84	5	48858
HIF1AN	10	102288829	102319755	72	2	53142
VMAC	19	5904869	5910864	24	5	48741
TMPRSS12	12	51236703	51281667	122	8	53001
PPID	4	159630286	159644548	17	3	51616
ENTPD3	3	40428647	40470110	72	3	49861
CTD-2117L	5	57837394	57854070	24	5	50649
SPTBN4	19	40972148	41082370	222	33	47947
MOB1B	4	71768043	71888166	106	7	40548
METTL21C	13	103338094	103346854	44	14	48020
LMNA	1	156052364	156109880	124	8	47033
NLN	5	65018023	65167553	406	35	51694
OR13D1	9	107456660	107457766	7	2	50382
TUBA3D	2	132233666	132240507	17	1	48068

LINC01101	2	121221911	121223697	6	2	45491
DFNB31	9	117164360	117267730	298	20	51053
GEM	8	95261481	95274578	29	6	51385
GRB10	7	50657760	50861159	611	29	50514
LNP1	3	100120037	100175163	60	12	48678
RP11-503N	4	2451700	2464668	33	8	47277
AL133373.1	14	92038788	92041383	6	2	48955
SCG5	15	32933877	32989299	152	37	46557
PDXP	22	38054734	38062941	16	2	52044
AP003733.1	11	61735453	61736755	3	1	52928
ITIH4	3	52846991	52865495	41	5	49623
EID2B	19	40021630	40023494	4	2	48830
TFPT	19	54610320	54619055	20	6	41259
SNAPC3	9	15422702	15465951	94	9	48267
GGCX	2	85771846	85788670	41	8	49002
SMPD2	6	109761966	109765122	7	3	47720
THNSL1	10	25305587	25315593	23	3	48985
RAPGEF3	12	48128455	48164823	120	20	50542
OR2D3	11	6942205	6943264	7	2	45383
THRAP3	1	36690017	36770958	71	5	46582
AADAC	3	151531825	151546276	77	8	51305
DPYS	8	105342552	105479281	366	36	48269
INSL6	9	5131979	5185668	138	4	49496
ALLC	2	3705785	3750261	151	17	52818
CIB3	19	16272179	16284336	31	3	50268
CTAGE5	14	39734488	39856156	251	19	51554
CTC-326K1.1	19	50412758	50461648	114	20	48224
HAPLN3	15	89420519	89438857	73	9	52414
RGL3	19	11495017	11530018	66	4	45532
ZCCHC9	5	80597409	80609116	27	6	50412
OR2T12	1	248457918	248458880	2	1	55448
C3orf65	3	185430316	185447575	20	7	50710
FLT3	13	28577411	28674729	326	13	50295
NSFL1C	20	1422807	1454487	58	13	49857
KCNJ15	21	39529128	39679279	338	18	49608
NXPH3	17	47653220	47661189	10	3	48449
ZNF747	16	30537244	30546173	4	2	43606
RP11-131H	14	94405901	94410475	13	3	48522
TAS2R3	7	141463897	141464997	2	1	49358
POFUT1	20	30795683	30826470	27	4	50197
GPR126	6	142622991	142767403	188	18	44010
EIF5AL1	10	81272357	81276188	7	2	46293
TMC1	9	75136717	75451267	852	27	51400
TRAPPC6A	19	45666186	45681495	28	6	49892
CCDC41	12	94700225	94853764	267	22	51176
TFCP2L1	2	121974163	122042783	124	19	46705
GRM8	7	126078652	126893348	1915	54	49779
MEIS1	2	66660584	66801001	262	29	46642
ARL14	3	160394948	160396233	2	1	47898
ATP1B2	17	7549945	7561086	30	4	48696
TNS4	17	38632080	38657849	69	13	48664

LSMEM1	7	112120908	112131117	34	9	49033
PRCC	1	156720402	156770607	116	15	48874
GNAL	18	11688955	11885684	516	25	47493
CD37	19	49838428	49846592	13	2	48680
GPNMB	7	23275586	23314727	55	7	48784
CACNB3	12	49207577	49222724	21	9	46915
PRKD1	14	30045687	30661104	1282	97	48866
PBXIP1	1	154916552	154928599	11	5	45204
KLHDC3	6	42981951	42989036	9	2	44008
C1orf116	1	207191866	207206101	6	3	45186
SEC14L4	22	30884900	30901698	59	9	47779
LAG3	12	6881678	6887621	5	2	36102
DDX39B	6	31497996	31510225	70	14	48195
SLC25A16	10	70237756	70287231	170	12	51069
SNRPB	20	2442280	2451499	10	2	47770
SYT9	11	7260009	7490273	818	67	49599
GPD1	12	50497602	50505102	6	3	40219
TMEM218	11	124966398	124981659	52	12	50885
STK31	7	23749786	23872132	355	23	52751
IL1R1	2	102681004	102796334	314	24	50255
TTC37	5	94799599	94890711	155	11	47478
MPHOSPH8	13	20207788	20247599	74	7	49784
EIF4G1	3	184032283	184053146	26	9	46874
GSX2	4	54965690	54968672	8	2	47528
UGT2A1	4	70454912	70518967	261	16	52201
SLC25A23	19	6436090	6465214	60	13	39866
TESPA1	12	55341802	55378530	166	8	40351
MORN4	10	99374310	99393344	30	4	48832
ZNF699	19	9404951	9420514	23	3	51566
ZNF317	19	9251056	9274100	87	8	49690
YRDC	1	38268616	38273857	6	2	52788
SLC22A4	5	131630136	131679899	109	8	49046
DCP2	5	112312399	112356667	98	13	49093
CDH4	20	59827482	60515673	2402	209	48172
ELF2	4	139949266	140098372	142	18	49275
TSSC1	2	3192696	3381653	601	24	50212
OR3A3	17	3323862	3324827	2	1	52455
ATP5I	4	666225	668127	3	2	48332
APOH	17	64208151	64252643	158	18	50152
ADAM30	1	120436156	120439118	4	1	45762
RPF2	6	111303218	111349466	216	14	51248
RP11-113D	11	18161733	18211042	172	8	52945
CD81	11	2397407	2418649	16	2	35146
KPRP	1	152730506	152734529	6	2	47363
TBKBP1	17	45771447	45789416	34	8	44753
ASTN1	1	176826438	177134109	627	48	49584
CDH5	16	66400533	66438686	100	16	48717
MLPH	2	238394071	238463961	321	15	48800
SETD3	14	99864083	99947216	79	5	49561
CHSY3	5	129240165	129522327	418	18	49633
TBC1D30	12	65174589	65274812	105	15	46402

JPH3	16	87635441	87731762	454	49	50863
LSMD1	17	7760003	7788556	55	10	45663
NARS2	11	78147007	78285919	287	4	49785
FKBP1C	6	63921351	63922929	9	2	51401
CRADD	12	94071151	94288616	479	56	50402
RAP2A	13	98086476	98121382	37	6	45990
KIF2B	17	51900239	51902573	11	4	49217
ACIN1	14	23527773	23564823	67	9	48221
AC011475.	19	10751715	10752093	1	1	47759
TAAR6	6	132891461	132892498	3	1	48617
C19orf68	19	48673949	48700877	65	11	44742
ZNF586	19	58281023	58331307	101	11	48917
DPH5	1	101455179	101491644	43	5	51897
L3MBTL3	6	130334844	130462594	285	21	48142
PBLD	10	70042417	70092806	168	10	51071
PTRH1	9	130455257	130487152	23	6	45812
ORAI1	12	122064455	122080583	23	6	46044
ZSCAN1	19	58545400	58565999	32	4	44598
XKR8	1	28285973	28294607	12	6	41630
GPN1	2	27851114	27874375	36	5	47529
REG3G	2	79252812	79255631	14	4	50576
GIT2	12	110367607	110434194	111	12	47820
ADSSL1	14	105190523	105213662	48	6	45592
ZNF664	12	124456392	124499986	75	8	50899
SEC23IP	10	121652223	121702014	158	11	53256
SNX24	5	122179134	122365049	550	19	52528
EXOSC2	9	133569108	133580248	16	6	42850
MAP3K13	3	185000729	185206885	465	26	50845
UBR3	2	170683968	170940641	820	22	50293
C8orf59	8	86126311	86132650	8	1	46742
CTNNA3	10	67672276	69455927	5828	168	50079
TCP10L2	6	167559902	167610401	88	14	46828
APITD1-CO	1	10490159	10512210	42	5	48611
APITD1	1	10490159	10512210	42	5	48611
PPP2R3A	3	135684515	135866733	253	15	50611
DLGAP5	14	55614830	55658396	67	7	49981
CCDC141	2	179694484	179914813	567	44	49347
MON1A	3	49946302	49967606	21	6	48582
MUC19	12	40787197	40964632	859	27	47802
DDX18	2	118572226	118589955	48	10	51409
PEX10	1	2336236	2345236	22	7	41344
RPL6	12	112842994	112856642	8	4	46303
KLF3	4	38665817	38702663	83	18	49844
SAMD15	14	77843032	77857840	34	4	52244
EIF3E	8	109213445	109447562	675	24	50999
CLEC4F	2	71035775	71047732	29	7	47736
POU4F1	13	79172497	79177673	8	4	45128
RAD50	5	131891711	131980313	88	4	50613
SLC18A3	10	50818347	50820765	3	1	38856
SPAG1	8	101170134	101271506	161	11	52241
NUBPL	14	31959162	32330430	990	25	51024

CNST	1	246729746	246831886	230	26	47358
ZNF135	19	58570607	58597677	63	7	52299
CNTD1	17	40950810	40963605	3	1	42268
CCNYL1	2	208576264	208626563	94	4	46845
IDE	10	94211441	94333833	258	20	50436
DCDC2C	2	3751453	3836122	293	40	50273
PADI4	1	17634690	17690499	249	23	50139
E2F5	8	86089460	86129387	48	5	48347
PHKG1	7	56148440	56160689	42	10	50558
TMEM132E	17	32907768	32966337	109	23	45875
LINC00999	10	38717074	38736820	16	4	39317
MIA2	14	39699435	39722859	53	8	52366
HHAT	1	210501596	210849638	1203	94	50285
NUMBL	19	41172596	41196877	57	12	50337
BRCA2	13	32889611	32973805	161	17	51259
ARHGEF2	1	155916630	155976861	64	7	44558
CYB5A	18	71920530	71959251	112	8	49662
GPX1	3	49394609	49396033	2	1	50808
C9orf96	9	136243117	136271220	83	5	52315
RHO	3	129247483	129254012	13	3	48084
ATP6V0A1	17	40610862	40674629	56	11	48307
TST	22	37406900	37415681	40	7	49305
PARP4	13	24995064	25086948	453	15	51998
MAPK12	22	50683879	50700254	46	9	41991
CELF6	15	72559087	72612287	86	9	42087
PCBD2	5	134240596	134343649	87	17	50360
USP44	12	95910336	95945266	88	19	50290
OR2T6	1	248550910	248551836	5	1	45309
PFKP	10	3108525	3179904	455	55	49577
MIF	22	24236191	24237414	3	1	55623
CDK5R1	17	30813637	30818274	3	1	39269
DYNLRB1	20	33104214	33128762	14	3	50503
NKPD1	19	45653008	45663408	18	6	49938
MICALCL	11	12297627	12380691	336	25	47022
ECHS1	10	135175984	135187193	13	4	41423
ZNRF3	22	29279580	29453475	292	23	46653
BRINP3	1	190066792	190446759	614	29	50863
FGF9	13	22245522	22278637	62	8	45327
ZNF716	7	57509883	57533252	83	4	51784
UGT2A1	4	70454135	70518965	262	16	52187
SEC14L6	22	30918786	30942669	87	10	47215
MYOCD	17	12569207	12672266	252	28	46850
GBP3	1	89472349	89488577	25	5	48435
VPREB3	22	24094930	24096655	5	2	50797
LYPD6	2	150186499	150330662	259	25	48368
RIMS2	8	104512976	105268322	2173	28	53254
DAAM1	14	59655364	59838123	524	28	51573
C1orf95	1	226736501	226796915	161	24	50102
GOLGA1	9	127640646	127710771	78	7	50126
TMEM184E	22	38615298	38669040	92	9	50181
MVD	16	88718343	88729569	34	7	45273

MED15	22	20850200	20941919	211	16	49640
TM4SF20	2	228226872	228246711	72	14	52658
DPPA5	6	74062785	74064018	1	1	48990
UNC13D	17	73823306	73840798	47	6	47465
ITGA9	3	37493606	37865005	863	68	50472
TMEM30C	3	99904531	99913035	19	5	50163
GPRC5C	17	72420990	72447792	46	10	43271
CEP55	10	95256389	95288849	106	12	50936
KCNMB2	3	177990720	178562217	1484	80	51283
GNPNAT1	14	53241912	53258386	14	3	51866
RPL35A	3	197676858	197683481	14	2	53094
ZFP41	8	144328991	144344875	34	5	47269
GAREM	18	29704840	30050447	787	41	48907
DIRC3	2	218148742	218621316	1175	57	49672
SH3RF3	2	109745804	110262207	1011	60	49457
ZNF559-ZN	19	9434850	9493293	95	5	51640
INS-IGF2	11	2153768	2182439	64	13	43226
ZBTB5	9	37438111	37465396	40	11	48374
CCL16	17	34303529	34308532	12	2	48940
NTSR2	2	11798304	11810290	23	4	47680
GAST	17	39868578	39872221	8	2	48323
GRIN2B	12	13693165	14133053	1284	77	49148
PTPRN	2	220154345	220174370	36	5	47845
OR6C76	12	55820038	55820976	1	1	45664
SLFN12L	17	33791268	33864880	178	29	50199
ACSM2A	16	20462783	20498991	70	4	46378
ZNF267	16	31885079	31928668	7	2	36952
RFESD	5	94982458	95020477	74	13	47714
KBTBD8	3	67048727	67061634	16	4	50227
CMBL	5	10275987	10308138	99	12	44978
EFCAB8	20	31446729	31549006	276	24	50027
CTD-2021H	12	71441182	71512027	150	11	49896
EDEM1	3	5229331	5261642	45	10	43138
TIMMDC1	3	119217379	119243937	92	13	48788
DCTPP1	16	30434940	30441396	3	1	45145
MTDH	8	98656407	98740998	122	10	50939
LDB1	10	103867317	103880210	20	8	46859
HSPB8	12	119616447	119658936	99	19	49406
FOCAD	9	20658308	20995954	827	34	50382
KTI12	1	52497775	52499488	3	1	44002
ZNF518B	4	10441498	10459034	33	11	46288
PACSIN2	22	43231418	43411151	448	14	48592
CENPN	16	81040103	81066719	76	5	50638
PAFAH2	1	26286258	26324648	79	6	47676
ZNF692	1	249144205	249153343	8	2	43142
SLC10A7	4	147175127	147443123	483	26	52445
SLC1A2	11	35272753	35441610	478	33	49716
RNF146	6	127587755	127609712	40	6	47316
AKIP1	11	8932686	8941631	33	5	49730
AP4S1	14	31494312	31562818	135	19	52033
SLC52A3	20	740724	749131	53	12	48327

R3HCC1	8	23127633	23153792	97	16	47710
NTHL1	16	2089816	2097867	6	2	40329
AZGP1	7	99564343	99573780	13	4	47751
DMXL1	5	118373467	118584833	269	30	47863
COG3	13	46039060	46110765	180	12	50360
LCT	2	136545410	136594750	91	8	47163
CHTF18	16	838046	850737	32	3	38940
LY6K	8	143781529	143786545	14	2	45414
TTYH2	17	72209653	72258155	103	11	50287
MKNK2	19	2037470	2051243	23	5	38601
KAAG1	6	24357131	24358512	4	2	44407
EDARADD	1	236511562	236648214	472	40	49136
RNF148	7	122341718	122343021	1	1	44272
MYO1D	17	30819540	31204195	635	51	50237
GOLGB1	3	121382046	121468602	144	17	50859
DISP1	1	222988406	223179337	434	31	41398
EHMT1	9	140513444	140764468	491	28	44451
SUV420H2	19	55851221	55859488	23	5	43924
HMCES	3	128997671	129025029	45	3	49911
RNF121	11	71639747	71708643	114	4	44662
TMEM231	16	75572015	75590184	60	5	47963
PRODH2	19	36290890	36304201	19	8	44128
CRTC2	1	153920145	153931101	7	1	51242
ZNF737	19	20718631	20748615	139	15	49154
LSM2	6	31765173	31774761	26	10	47155
ZSWIM2	2	187692562	187713935	84	3	48165
EPHB2	1	23037332	23241818	402	47	47104
SPPL3	12	121200313	121342174	394	22	48033
FAXC	6	99719045	99797938	242	26	49054
KCNAB1	3	155755490	156256545	1184	58	46953
ADAL	15	43622872	43646096	49	5	48286
LIG1	19	48618702	48673860	175	12	49397
RB1	13	48877887	49056122	133	15	42107
LEPREL1	3	189674517	189840226	508	24	51405
ARMS2	10	124214169	124216868	16	3	53914
RP11-404L1	5	67485704	67494235	27	6	50323
LMOD2	7	123295861	123304344	17	5	51190
IL12A	3	159706537	159713806	14	4	49229
AC005477	14	72456191	72458326	9	3	47472
C17orf107	17	4802713	4806227	7	3	48319
SRP72	4	57333081	57369839	99	10	50101
TCP11L2	12	106695707	106740793	95	11	51787
SPINT1	15	41136216	41150405	36	5	43655
CCR6	6	167525295	167553184	74	15	45637
CRAT	9	131857089	131873468	19	1	48526
HNRNPAO	5	137087075	137090039	1	1	49358
NT5C	17	73126320	73127890	4	2	47440
FAS	10	90750414	90775542	92	11	51968
BCL2L1	20	30252255	30311792	76	5	50228
TTC28	22	28374004	29075853	1024	29	50357
PRSS37	7	141536086	141541287	25	2	53761

GJD4	10	35894338	35897863	10	3	42767
ASF1A	6	119215384	119230332	33	6	47715
KCNK17	6	39266777	39282329	32	10	47661
ARPP19	15	52839242	52862080	63	7	47837
USP18	22	18632666	18660164	53	6	42848
RAB4B-EGL	19	41284147	41314103	86	15	48857
MAP3K19	2	135722061	135805038	169	13	44969
AQP2	12	50344524	50352664	24	4	49717
PDX1	13	28494157	28500368	15	3	52648
IL25	14	23842018	23845612	7	2	45619
SOCS7	17	36508111	36556019	60	6	45067
PTGS1	9	125132824	125157982	66	8	46553
BLVRB	19	40953696	40971747	49	8	47115
SLC34A1	5	176806236	176825849	28	5	43782
RPS6KA4	11	64126620	64139687	22	3	48631
ACOX1	17	73937588	73975515	122	14	47340
KRTAP4-12	17	39279343	39280419	3	1	31189
MAFK	7	1570350	1582679	30	4	49990
LAMC1	1	182992595	183114727	333	7	53221
CNTFR	9	34551430	34590121	106	16	51314
LITAF	16	11641853	11730237	323	31	47062
JAK3	19	17935589	17958880	40	10	40067
PHKG2	16	30759591	30772490	4	2	42629
NRBF2	10	64893050	64914783	35	7	45528
TLR5	1	223282748	223316624	87	8	46186
SLC28A3	9	86890372	86955672	196	27	48912
LYL1	19	13209847	13213975	9	4	42727
PAN2	12	56710007	56727837	17	3	46658
HIGD2B	15	72968124	72978490	16	5	46419
C1orf56	1	151020216	151024462	2	1	40353
FAM19A1	3	68053359	68594776	1672	78	50481
MMRN1	4	90800683	90875780	166	17	47948
LARP6	15	71123863	71146498	32	5	47745
GALNT9	12	132680924	132905935	191	20	42587
ICAM3	19	10444452	10450499	25	3	52222
MGST1	12	16500076	16762193	437	42	48748
TRAPPC8	18	29409136	29533099	264	15	51214
ANAPC4	4	25378835	25420120	131	11	49645
RRM2B	8	103216730	103251346	100	12	51884
HTRA2	2	74756504	74760472	3	2	45185
ZNF511	10	135121979	135166033	70	11	38712
EPN1	19	56186592	56221224	111	16	45230
FAM25A	10	88780063	88784487	15	4	48688
SLC46A3	13	29274201	29293107	24	4	49336
CD83	6	14117872	14137149	52	11	51607
EDRF1	10	127408084	127452712	48	7	45614
RALGAPA2	20	20370196	20693131	311	14	44033
KCNF1	2	11052063	11054350	4	2	45380
SKP1	5	133484633	133512729	45	6	50187
ZBTB22	6	33282183	33285719	4	2	48505
PSG11	19	43511808	43530664	34	2	32033

CYP20A1	2	204103663	204163009	104	11	46993
ZC3H12A	1	37940153	37949980	12	5	50361
ZNF583	19	56909335	56947404	63	9	48401
USP4	3	49315264	49378145	58	7	50406
CLTA	9	36190853	36304778	275	20	50940
SULT4A1	22	44220389	44258398	133	14	50323
POLR2G	11	62529016	62534182	4	2	40480
DENND1B	1	197473878	197744826	283	13	49465
RNF170	8	42704780	42752433	56	7	44695
RP11-47122	14	62037258	62125414	178	23	47428
MLXIP	12	122516628	122631894	167	7	52935
OR51D1	11	4660945	4662068	5	2	49273
ANK2	4	113739265	114304896	1449	113	48716
KRTAP10-3	21	45977673	45978643	6	2	45124
ZNF844	19	12175514	12192380	36	3	44600
LMBRD1	6	70385694	70507003	279	9	51632
KIAA1033	12	105501102	105562912	126	13	52913
ECT2L	6	139117063	139225207	314	37	49567
SEMA4F	2	74881355	74909186	22	4	37686
SLC22A13	3	38307303	38319806	17	2	46229
METTL11B	1	170115142	170136931	58	11	52328
CYFIP1	15	22892005	23006016	295	45	41631
FSCB	14	44973545	44976482	8	3	50658
MARCO	2	119699742	119752236	164	18	47901
RITA1	12	113623331	113630173	10	2	52223
ZNF747	16	30537244	30546668	5	2	43581
RPE65	1	68894505	68915642	63	10	48562
NETO1	18	70409549	70535381	408	33	51031
THEM4	1	151846060	151882284	75	7	50695
AP000695.	21	37858165	37860058	11	5	43876
TADA1	1	166825747	166845564	51	5	48376
TMEM45A	3	100211463	100296288	180	12	50932
CD33	19	51728320	51747115	27	8	44104
LGI2	4	25000469	25032501	132	20	49606
MSMB	10	51549498	51562517	25	3	44226
TMEM79	1	156252726	156262976	15	2	54548
Z97053.1	20	43234346	43248126	25	7	46861
ARHGAP19	10	98978996	99052413	202	14	51210
SELE	1	169691781	169733846	255	10	52110
NGEF	2	233743396	233877982	447	42	51583
EPHA5	4	66185281	66536213	1201	63	49868
CHMP3	2	86730554	86948245	361	23	49116
HIVEP2	6	143072604	143266338	417	40	50793
RGS21	1	192286122	192336415	93	11	47574
MAATS1	3	119421869	119485949	105	12	48124
MAP3K2	2	128056306	128146041	199	18	50425
UMPS	3	124449213	124464040	46	7	52243
ABCC5	3	183637722	183735803	201	17	51342
FAM213B	1	2517930	2522908	8	3	46981
FAM71D	14	67656110	67695267	88	10	41455
NSG2	5	173472607	173670504	579	70	47455

ZNF300	5	150273954	150284545	23	2	49356
SEMA4D	9	91975702	92113045	450	44	49492
HMGA2	12	66217911	66360075	183	24	47457
B3GNT7	2	232260254	232265875	8	3	47035
INHA	2	220433884	220440435	12	4	46088
BTBD16	10	124030821	124097677	222	23	49341
IL17F	6	52101479	52109335	24	7	49379
EPSTI1	13	43460524	43566407	305	37	50268
C1QB	1	22979255	22988031	22	6	45836
HMG2	1	26798941	26802463	4	2	50308
UNC80	2	210636717	210864024	383	21	45250
SLC51B	15	65337708	65345734	9	2	49156
KCTD16	5	143550396	143865249	498	22	49838
VAV3	1	108113782	108507766	1113	67	50973
TMEM109	11	60681346	60690915	11	4	45538
MCAM	11	119179241	119192231	10	4	45707
OR10J3	1	159283460	159284449	2	1	36167
C1QTNF2	5	159774758	159797648	58	9	51472
BCAR3	1	94027347	94312706	812	28	48397
EPS8L1	19	55583388	55599291	46	7	46704
RNASE2	14	21423611	21424595	1	1	56172
SUSD3	9	95820989	95847420	78	9	47348
SP110	2	231032009	231090444	215	19	51877
TMEM72	10	45406648	45432450	72	9	50124
HBP1	7	106809406	106842974	49	4	52383
FBXW7	4	153242410	153457253	342	6	34420
ZNF639	3	179040779	179053323	18	5	50993
ARMC8	3	137906109	138017231	66	14	42163
POLR3H	22	41921808	41940610	26	3	45905
LRRC27	10	134145614	134195010	173	16	50165
CRTC3	15	91073157	91188577	287	15	50751
UBE2E1	3	23847394	23932807	150	18	50507
BOK	2	242498136	242513546	36	10	48956
CTD-3214H	19	7694682	7707934	28	1	53507
ANKS6	9	101493611	101559247	97	11	45064
ZNF140	12	133656424	133684130	3	1	50565
TTC14	3	180319918	180335616	14	5	48501
C1orf185	1	51567906	51613752	54	7	45447
PPP1R11	6	30034486	30038110	16	4	47188
FAM24B	10	124608594	124639157	21	9	44202
KIRREL3	11	126293254	126873355	1734	132	50143
NUDT14	14	105639275	105647660	18	2	39380
IL4I1	19	50392911	50432796	85	14	48234
UBE2U	1	64669310	64733051	134	13	51299
TFB2M	1	246703862	246729626	130	13	50131
SEC31B	10	102246399	102289628	57	3	50503
FADS2	11	61560452	61634826	151	16	47474
CETN3	5	89688078	89705603	4	2	45326
LIAS	4	39460620	39479273	58	11	52187
CCDC125	5	68576002	68628636	80	6	48281
UBQLN3	11	5528530	5531215	6	3	41729

PRCD	17	74523668	74549660	43	4	50109
OVOL3	19	36602104	36604613	4	2	49012
PEA15	1	160175127	160185166	7	3	42093
FICD	12	108908962	108919614	17	5	48081
LRRC10B	11	61276272	61278482	5	1	46489
MYO9A	15	72114632	72410918	377	14	44850
AF165138	21	15964251	16031142	132	12	51348
TIGD6	5	149372681	149380730	11	3	49029
TUBGCP4	15	43661419	43699293	50	5	48315
KLHDC2	14	50234326	50249909	14	3	48601
PVRIG	7	99815864	99819113	10	3	49456
TRIP12	2	230628554	230787955	169	18	48857
HIST1H3A	6	26020718	26021186	1	1	50100
DAB1	1	57460451	59012406	4154	245	48617
EDEM2	20	33703167	33865928	305	18	50139
CDH6	5	31193857	31329253	239	31	50947
SLC4A7	3	27414214	27525911	348	20	51682
NRIP2	12	2934514	2944710	23	4	47736
ESRRG	1	216676588	217311097	1916	136	49412
COPB2	3	139074442	139108574	67	7	49575
GOT1	10	101156627	101190381	44	8	49239
HIVEP1	6	12008995	12165232	367	33	51536
FAM134B	5	16473147	16617167	391	38	50886
TRIM34	11	5640994	5665628	72	10	48248
TSKU	11	76493295	76509198	41	6	45722
C9orf37	9	140509784	140513358	1	1	49749
MEX3C	18	48700920	48744674	79	6	52881
HERC3	4	89442199	89629693	348	20	49343
SLC32A1	20	37353105	37358015	4	2	45445
APMAP	20	24943561	24973615	83	8	51685
NKX6-2	10	134598297	134599556	1	1	47825
MRI1	19	13875346	13885096	16	3	43345
CNTNAP5	2	124782864	125672864	2474	117	51799
PRSS56	2	233385173	233390422	17	6	47637
ZNF251	8	145946298	145981802	19	4	46599
TPD52L3	9	6328349	6331900	9	3	46359
KCNMB4	12	70760056	70828072	206	25	50255
ALDH4A1	1	19197926	19229275	127	17	41076
GGNBP1	6	33551515	33556803	15	4	50785
DIS3	13	73329540	73356234	43	8	50788
MGAM	7	141607613	141806547	293	35	43514
RP11-156P	17	45000499	45124520	315	17	51236
GRIN3A	9	104331635	104500862	575	23	50293
BBS10	12	76738254	76742222	3	1	52590
TXNRD3	3	126290622	126373998	219	24	46250
RELB	19	45504688	45541452	39	9	43275
KCTD19	16	67323331	67360666	35	5	44856
PAX4	7	127250346	127255982	10	3	44858
PARP6	15	72533522	72565340	45	7	44843
FMO4	1	171283347	171311223	33	7	48253
ITPA	20	3189514	3204516	54	9	52511

SLC15A3	11	60704556	60720002	36	9	46535
IFI16	1	158969758	159024945	186	10	48810
RNF103-CH	2	86732791	86948245	356	23	49180
TRAPPC1	17	7833663	7835441	4	2	48942
TMEM71	8	133697253	133772958	221	14	50420
ZNF177	19	9435021	9493293	93	5	51773
OR6X1	11	123624196	123625253	2	1	40458
NR1H4	12	100867486	100958191	108	16	40952
MAB21L2	4	151503077	151505843	2	1	42148
OXER1	2	42989642	42991401	6	2	52032
TAS2R8	12	10958650	10959892	2	1	35669
HECW2	2	197059094	197458416	953	56	48668
USO1	4	76649777	76735382	180	11	48579
CTU1	19	51600863	51611627	34	6	47363
BCKDHB	6	80816364	81055987	605	20	51015
SV2A	1	149874870	149889434	13	2	47082
ZNF454	5	178368192	178393434	72	12	52198
GLTSCR1	19	48111453	48206533	253	16	51485
GADL1	3	30767692	30936257	469	35	49612
ARHGEF17	11	73019334	73080136	127	9	50102
GABRB3	15	26788693	27184686	982	85	46450
GPR110	6	46965440	47010099	79	15	48953
NCCRP1	19	39687601	39692524	8	1	50167
NPEPL1	20	57264187	57294294	104	14	51183
ELOVL3	10	103986085	103989346	3	1	45957
PAPD4	5	78907943	78982471	182	7	48804
OLR1	12	10310902	10324737	47	6	49905
PTGIS	20	48120411	48184683	93	23	44470
CDK15	2	202655184	202760273	211	34	46183
FAM214A	15	52873514	53002014	223	20	47503
AP000275.1	21	33951132	33984591	93	12	52139
DRD4	11	637293	640706	5	3	41640
LYG1	2	99900701	99921205	27	5	48333
RP11-553A	3	110607231	110612323	9	4	42750
PML	15	74287014	74340153	122	13	50229
TOB1	17	48939584	48945339	6	3	49849
LGALS14	19	40194946	40200084	11	5	48339
SERPIN6	6	2948393	2972090	90	13	48953
GMNN	6	24775159	24786327	18	7	47180
NUS1	6	117996665	118031803	88	15	51685
FBXO18	10	5931535	5979556	150	15	51159
DACH1	13	72012098	72441330	377	41	41711
ACTL6A	3	179280668	179306196	38	5	49128
ZNF512	2	27805897	27858041	97	9	47681
RP11-9B6.1	4	93218402	93225329	5	2	48455
XYLB	3	38388251	38462839	226	18	47444
HSPB3	5	53751445	53752207	2	1	51635
OR52I2	11	4608021	4609135	2	1	52386
AP5M1	14	57735627	57756797	13	2	43894
PTCHD4	6	47845764	48036425	567	37	49113
AC005609.	5	140240341	140243224	6	2	49988

NSMF	9	140342022	140353786	4	2	32786
GRIK3	1	37261128	37499730	366	36	46132
NEK5	13	52611093	52703214	154	14	48179
GLI4	8	144349603	144359101	27	4	49358
PASK	2	242045514	242089679	180	18	48332
TTC9B	19	40721965	40724306	5	2	43183
HIST1H2AC	6	26199079	26199471	2	1	55273
HYLS1	11	125753509	125770543	41	6	48753
TMBIM6	12	50101508	50158717	133	8	46940
AC003002..	19	57874934	57909952	74	13	47016
SIGLEC11	19	50452242	50464429	20	4	52105
RP11-162P	12	112191694	112229222	22	2	48586
PRSS55	8	10383056	10411676	165	17	52977
EDN2	1	41944446	41950344	14	3	52125
RCE1	11	66610306	66614017	5	3	41245
LENG1	19	54658899	54663620	8	5	36221
DIO2	14	80663873	80854100	262	24	48632
MTRR	5	7851299	7906138	238	26	48589
FIBIN	11	27015628	27018630	6	3	41777
TMEM253	14	21567096	21571883	10	3	42032
NFAM1	22	42776416	42828401	167	20	47450
GADD45G	9	92219928	92221470	2	1	53929
CHCHD7	8	57124245	57131357	8	5	40641
CCDC177	14	70038216	70040339	5	2	43562
CTD-2260A	5	96149731	96271513	515	26	51891
VWA2	10	115999018	116051272	106	14	50531
MPV17L	16	15489611	15507125	48	11	45865
DEFB132	20	238377	241737	10	1	48333
ZNHIT6	1	86115106	86174116	113	17	49427
C16orf96	16	4606491	4650715	72	8	45551
OTOL1	3	161214596	161221730	25	3	52491
SDHD	11	111957627	112064528	164	22	50358
MIEN1	17	37884749	37887040	2	1	49237
OSTF1	9	77703459	77762181	200	26	51394
DUSP18	22	31048038	31063877	49	11	46760
CCDC173	2	170501935	170550943	171	10	53351
CREB3L2	7	137559725	137686813	242	34	43558
MPP5	14	67707826	67802536	262	11	41256
ZNF530	19	58111253	58124090	24	7	49631
FAM173A	16	770581	772601	5	1	41080
TRPC4AP	20	33590207	33680674	219	12	52776
RPF1	1	84944942	84963473	69	12	47271
SEPP1	5	42799982	42887494	210	21	51732
STRIP2	7	129074274	129128240	95	10	49636
HDAC4	2	239969864	240323348	991	70	49043
HID1	17	72946838	72969261	29	7	45099
RHOBTB2	8	22844930	22877712	67	13	48149
RP11-386G	8	56074043	56077287	6	2	53448
SIRT6	19	4174106	4182601	10	2	35581
ZBTB48	1	6640061	6649340	9	3	44256
STK10	5	171469077	171615390	486	46	50808

STK32C	10	134020996	134145351	456	39	46235
RARA	17	38465444	38513094	49	7	41957
ACER3	11	76571911	76737841	345	7	49477
SLCO2B1	11	74811608	74917594	303	21	47492
GRN	17	42422614	42430470	10	4	44128
NOMO3	16	16326352	16388668	4	2	39725
ECSIT	19	11616731	11639989	44	6	42767
ZNF667	19	56950694	56989434	69	9	49549
CSPG4	15	75966663	76005189	42	6	48526
GDF5OS	20	34020827	34023248	5	1	47005
CTBP2	10	126676421	126849739	614	60	49623
VWA8	13	42140973	42535256	898	42	46264
SAMD3	6	130465460	130686570	940	25	51499
TGFBRAP1	2	105880871	105946491	190	23	49836
NUP85	17	73201754	73231853	37	4	50874
PPP1R9A	7	94536514	94925727	559	26	50650
L2HGDH	14	50704281	50779266	142	12	52762
DGAT1	8	145539954	145550573	15	4	43305
ZNF343	20	2462463	2505348	82	18	47412
HIST1H2BK	6	27106073	27114619	11	4	47401
PRKACA	19	14202500	14228896	17	3	41957
KLF12	13	74260226	74708394	1180	107	49045
PFKL	21	45719934	45747259	102	10	45839
TMEM151f	6	44238203	44275243	122	12	46459
ZEB1	10	31607424	31818742	197	9	44397
C9orf40	9	77561497	77567802	10	4	46349
GATAD2B	1	153777201	153895451	168	12	49514
CEP44	4	175204828	175254531	70	13	49702
NUDT19	19	33182867	33204702	59	9	50271
GSTT2	22	24322339	24326106	3	2	42724
FAM115C	7	143318043	143427502	10	4	43441
STT3B	3	31574130	31679112	158	13	48796
DHRS7B	17	21026677	21096578	93	11	47488
DYNC1I2	2	172543919	172604930	107	15	48260
FAM135A	6	71122644	71270877	264	7	51579
KRTCAP2	1	155141884	155145951	8	2	51740
ABHD16B	20	62492566	62494341	6	2	44445
CENPJ	13	25457171	25497018	96	14	52368
SOSTDC1	7	16501106	16570205	250	29	51221
FAM105B	5	14664773	14699820	54	8	48980
GRK1	13	114321470	114440708	37	5	46268
XBP1	22	29190543	29196585	7	3	45309
EPHB6	7	142552792	142568847	39	7	42163
SLC24A4	14	92788925	92962596	678	52	51012
ZNF793	19	37997841	38039664	64	14	50106
HDAC2	6	114254192	114332472	174	23	52440
SDC4	20	43953928	43977064	68	7	52175
KCNK15	20	43374421	43379675	12	5	44206
TTC30A	2	178477720	178483694	34	6	45853
MLH1	3	37034823	37107380	127	11	49654
ABC8	7	150725510	150744869	45	8	49756

KRTAP12-2	21	46086106	46086844	8	2	48065
RP11-368I7	16	89749028	89752977	16	3	49502
APBA3	19	3750817	3761697	31	7	47846
OTOP2	17	72920370	72930007	5	3	42492
CD164L2	1	27705666	27709870	3	1	46508
RP11-849H	11	71576555	71639700	217	5	46641
SLAMF1	1	160577890	160617085	83	14	44364
DGKG	3	185823457	186080026	523	73	46257
PTPN12	7	77166592	77269388	244	18	45754
TPO	2	1377995	1547483	554	32	51107
ZNF138	7	64254766	64294054	120	10	50459
ZDHHC1	16	67428322	67450736	31	6	44392
PCNXL3	11	65383244	65404910	24	8	49422
STXBP5	6	147525561	147706866	228	16	49455
GAL3ST3	11	65809423	65816651	13	3	45703
RP11-45M2	17	17105963	17140499	99	14	48707
WNT5B	12	1639057	1756409	293	65	42275
TXNDC16	14	52897308	53019240	256	14	52294
SCP2	1	53392901	53517375	406	16	46092
SENP7	3	101043049	101232085	427	11	53051
SLC25A51	9	37879400	37904350	29	8	50076
CLOCK	4	56294070	56413305	395	12	53179
RCN3	19	50030875	50050219	77	2	45676
FEN1	11	61560109	61564716	2	1	43355
ZNF548	19	57901218	57912786	22	8	47715
DNAJC10	2	183580999	183659191	110	7	48694
GATA3	10	8095567	8117161	65	9	49041
TMEM52B	12	10323141	10344400	72	13	49942
RTN4	2	55199325	55339757	389	29	49808
STRAP	12	16035325	16056412	9	2	43395
URI1	19	30414551	30506611	119	9	47086
PTH1R	3	46919236	46945287	37	8	42370
FRAT1	10	99079022	99081672	5	2	52691
PBX3	9	128509624	128729656	227	16	48206
KIAA1958	9	115249127	115431677	326	26	50264
RPH3AL	17	62293	236045	573	85	41654
SCRIB	8	144873090	144897549	50	8	42341
RUNX3	1	25226002	25291612	109	22	45946
TCEB1	8	74851404	74884522	82	11	50766
GPR107	9	132815705	132902448	209	22	47672
LRRC17	7	102553438	102585396	38	6	49623
CST9	20	23583047	23586513	6	2	46527
TTL2	6	167738574	167772991	84	16	48308
PRSS46	3	46761073	46777919	59	4	51119
KHSRP	19	6413359	6424805	12	4	42088
TREM2	6	41126244	41130924	2	1	39981
FAM179A	2	29179477	29284239	360	27	49753
FAM159B	5	63986135	64013917	29	5	51734
AC104794	2	10223908	10226228	7	3	52056
WDR72	15	53805938	54055075	906	39	47201
YARS2	12	32880424	32908836	69	5	52057

ZCCHC11	1	52873954	53019159	178	13	49910
SLC25A42	19	19174808	19223697	72	9	48200
DUSP3	17	41843489	41856356	30	4	50762
FARSB	2	223435255	223521056	159	17	49087
SRA1	5	139916925	139937895	23	6	47104
C20orf144	20	32250090	32253425	1	1	55623
PDXK	21	45138975	45182188	122	23	47307
ARL4A	7	12726481	12730559	18	7	49447
ZNF236	18	74534563	74682683	334	18	48231
RP11-127H	8	105602961	106431488	1940	102	50709
TENM2	5	166711804	167691162	1836	164	48560
TESK1	9	35605367	35610038	3	2	45702
C5	9	123714616	123812554	189	17	49729
NOTCH4	6	32162620	32191844	131	24	47245
STAC3	12	57637236	57644976	7	3	49822
SPDYA	2	29005383	29073477	98	11	48006
UBE3D	6	83602117	83775560	414	19	48211
CPOX	3	98239976	98312567	174	27	49975
TP53BP2	1	223967601	224033674	119	11	49630
MECOM	3	168801287	169381406	1453	100	49721
SND1	7	127292234	127732661	598	25	47978
FAT2	5	150883654	150948505	169	24	49196
TUT1	11	62342517	62359649	9	3	47105
SPRYD4	12	56862301	56864763	3	2	47892
GS1-393G1	8	145576888	145579269	3	1	42075
OMA1	1	58881056	59012474	481	44	49227
AC006372.	7	157318477	157320019	4	2	46910
P2RY6	11	72975550	73009662	69	6	48664
MTRNR2L5	10	57358750	57360488	5	2	52621
NCR1	19	55417508	55427508	22	4	38900
SLC9B2	4	103941025	104006986	56	11	46955
PDZD8	10	119040000	119134978	203	11	51686
TGS1	8	56685701	56738007	129	10	51405
H1FX	3	129033615	129035120	6	2	47200
MMP16	8	89044237	89340254	602	44	50479
NPAT	11	108027942	108093369	71	8	51191
ZNF609	15	64752941	64978264	346	16	45234
MORN2	2	39103103	39156213	76	9	47690
SEC61G	7	54819943	54827667	21	4	53483
NUFIP2	17	27582854	27621136	68	9	51713
HGD	3	120347020	120401418	192	28	42625
LRIG2	1	113615831	113674882	58	11	44627
TCERG1	5	145826874	145891524	154	10	43889
GABARAPL1	15	90890819	90892669	12	2	48596
PRSS50	3	46753605	46854064	190	11	49684
DAB2IP	9	124329336	124547809	398	57	47245
MTA3	2	42721709	42984087	531	18	51777
ALG9	11	111652919	111742305	75	7	47900
S1PR3	9	91606362	91619925	30	11	46156
MS4A13	11	60282886	60310194	62	6	51313
FAM212B	1	112223252	112298446	230	31	51735

HMGB1	13	31032884	31191734	272	43	44127
OR1J2	9	125273081	125274022	1	1	47999
TMEM88	17	7758383	7759417	2	1	36425
LILRA2	19	55084387	55099027	37	5	47416
PPP3R2	9	104353897	104357283	7	3	51640
INSL3	19	17927321	17932383	15	4	39383
HNRNPL	19	39327028	39342987	24	5	46925
AL117190.1	14	101359265	101360646	3	2	34105
BAG3	10	121410882	121437331	88	13	52186
RRP1	21	45209394	45225174	72	8	51176
AGGF1	5	76325076	76361059	69	11	50195
PSMB3	17	36908989	36920484	24	8	50379
SLC25A35	17	8191081	8198661	14	6	42998
ZCCHC7	9	37120536	37358146	260	16	51325
CFL2	14	35179593	35184029	7	2	45605
ADCY4	14	24787555	24804299	42	9	46248
BMS1	10	43278249	43330385	135	13	52986
ANKRD61	7	6071007	6076017	11	4	48510
MTOR	1	11166592	11322564	282	7	45442
SLC35G3	17	33519539	33521412	2	1	45881
ARRB1	11	74975226	75062873	168	32	48103
STON1	2	48756522	48826025	231	23	51758
DKFZP667F	10	6392278	6394723	4	1	46240
FBRS	16	30669752	30682135	4	1	51872
ZNF829	19	37379026	37407193	48	5	51431
MSANTD2	11	124636394	124670569	51	9	49279
PPP1R14B	11	64011956	64014413	4	1	50770
PBK	8	27667137	27695612	137	4	50553
ZNF879	5	178450753	178462065	47	4	51734
SAPCD1	6	31730576	31732628	3	2	44554
ARL6IP4	12	123464607	123467456	1	1	49398
SPRY1	4	124317950	124324910	17	5	49395
ZBTB49	4	4291924	4323513	89	7	49914
CACTIN	19	3610639	3626813	50	5	49028
DAP3	1	155657751	155708801	47	7	47570
CYB5B	16	69458428	69500169	127	15	51713
RNF138	18	29671818	29711524	72	12	49833
TRIM60	4	165953105	165962896	12	3	49801
NCKAP5L	12	50184929	50222533	111	11	44190
ZBED4	22	50247490	50283726	103	5	49012
MALRD1	10	19492779	20079330	1952	80	50506
IFI35	17	41158742	41166473	14	3	50914
GNAI1	7	79763271	79848718	158	20	49193
PTDSS1	8	97273943	97349223	126	16	49281
SMEK1	14	91923955	91976898	109	9	51531
TCTA	3	49449639	49453908	7	3	48123
IK	5	140026643	140042064	19	2	53384
PTPN18	2	131113580	131132982	17	1	43849
ZMYND15	17	4643319	4649411	11	5	42684
PRSS36	16	31150246	31161415	7	3	45207
AMD1	6	111195973	111216916	68	9	49950

RNF144A	2	7057523	7208417	483	37	49545
TMEM8C	9	136379708	136393734	21	5	37876
ARID5B	10	63661059	63856703	414	52	49594
EMR3	19	14729929	14800839	222	29	51270
GEN1	2	17935125	17966632	69	11	47797
PJA2	5	108670410	108745695	213	12	50014
KHDRBS3	8	136469700	136668965	376	18	50586
PES1	22	30972612	31003070	95	18	50197
COX17	3	119373360	119396301	85	9	50655
AFTPH	2	64751465	64820139	108	6	49783
ZNF350	19	52467596	52490109	67	9	49412
SLC39A4	8	145635126	145642279	12	4	40012
DNAJC15	13	43597339	43683045	178	9	52441
MED26	19	16685718	16739873	83	8	49483
FBXO36	2	230787018	230877825	117	16	49924
OR4C6	11	55432614	55433671	1	1	55857
MAPK14	6	35995488	36079013	177	15	49224
CYP2U1	4	108852525	108874613	63	6	50805
OR4C15	11	55321783	55322895	10	2	50691
KIAA0895	7	36363830	36429734	136	19	49758
NGLY1	3	25760435	25831530	78	4	45779
EMR2	19	14843205	14889353	169	19	50598
NRD1	1	52254863	52344477	131	17	47093
C7orf71	7	26677490	26686889	19	2	50670
HAS3	16	69139467	69152622	19	6	48786
PTPN2	18	12785477	12929642	348	31	50966
ZNF564	19	12636184	12662356	40	8	44291
ADRA1A	8	26605667	26724790	477	55	48011
DRD1	5	174867042	174871211	6	2	51362
SLC40A1	2	190425305	190448484	41	6	47976
HSD17B8	6	33172419	33174608	7	3	48924
VLDLR	9	2621834	2660053	116	20	48531
CORT	1	10509776	10511959	3	1	44129
VCPIP1	8	67540722	67579452	44	5	40436
ACSL6	5	131142683	131347936	249	12	46470
LRRC45	17	79981178	79989027	5	2	40163
SLC30A3	2	27476552	27498685	22	4	52119
GALNT13	2	154728426	155310361	1692	53	49646
MFAP1	15	44096690	44117000	27	4	47669
AC131097.	2	242836136	242844702	5	1	34450
BRPF1	3	9773413	9789702	21	7	46383
IFT172	2	27667238	27712656	53	5	47211
ZNF496	1	247460714	247495148	77	9	50744
PRKAG2	7	151253197	151574210	919	104	48215
NFKB1	4	103422486	103538459	183	11	51009
CCDC112	5	114602885	114632528	49	8	51480
GALNT12	9	101569981	101612363	88	18	49496
SOWAHB	4	77816082	77819002	6	2	52164
RPS13	11	17095936	17099334	5	2	50079
ARG2	14	68086515	68118437	72	10	50469
POPDC3	6	105606155	105627870	60	6	45488

EIF2AK2	2	37326353	37384208	168	14	51178
GRIN1	9	140032842	140063207	19	3	35286
ZNF532	18	56529832	56653712	282	20	47948
QRFP	9	133768815	133769225	1	1	37582
ARMC7	17	73106047	73126360	43	8	46397
ACER2	9	19408925	19452018	102	10	48680
SOS2	14	50583847	50698276	305	17	50973
SBK2	19	56041100	56048456	18	7	42444
RAB31	18	9708162	9862548	529	76	48366
DNAJB9	7	108210012	108215294	7	2	50192
GLTSCR2	19	48248779	48260315	41	6	44348
BTF3	5	72794233	72801460	19	2	40348
CLIC3	9	139889087	139891255	1	1	32533
GRXCR2	5	145239296	145252531	26	8	45830
LDHD	16	75145758	75150669	3	1	45420
KIAA1462	10	30301729	30404423	159	21	49607
PRR21	2	240981230	240982399	4	2	44376
LNPEP	5	96271098	96373219	209	13	51018
PDP2	16	66912492	66929657	31	7	46428
LRRC42	1	54411750	54433841	23	5	43930
MMP8	11	102582526	102597781	72	15	50875
PPP1R3B	8	8993765	9009084	38	4	52344
GTF3C3	2	197627756	197664449	26	7	45945
C4orf21	4	113460492	113558151	154	17	49254
FAM132B	2	239067623	239077541	37	9	50110
FKBP8	19	18642561	18654887	9	5	43172
ZNF540	19	38042308	38104998	103	12	52001
ADAMTS6	5	64444563	64777747	641	36	50078
ZGLP1	19	10415479	10420556	11	4	50217
CTSG	14	25042728	25045466	7	3	51655
SPATA3	2	231860836	231889770	148	12	50359
UBXN10	1	20512578	20522541	8	3	48503
ZNF560	19	9577183	9609283	85	3	49523
FAM26F	6	116782533	116784934	5	3	53290
ARHGEF11	1	156904632	157015162	210	15	51257
FAM83E	19	49104067	49118111	29	7	42623
MSRA	8	9911778	10286401	1427	68	49296
ATF1	12	51157493	51214905	87	8	50657
PRR19	19	42806250	42814973	4	1	47199
NMU	4	56461396	56502865	120	13	51956
ZBTB11	3	101367733	101396339	43	7	52117
KRTAP19-8	21	32410478	32410795	1	1	39437
TMUB1	7	150778167	150780633	3	2	49058
MASTL	10	27443753	27475853	110	11	50715
FOLR3	11	71825915	71850936	86	9	48266
CCDC101	16	28565236	28603111	76	9	48099
KDELR3	22	38864067	38879452	22	9	40717
CD8B	2	87042462	87089047	87	11	49497
CP	3	148880197	148939842	124	22	50408
TBC1D28	17	18538319	18565263	13	4	38392
RP11-520P	8	144161874	144164418	4	2	45210

AMPD1	1	115215719	115238239	45	10	50392
PLD3	19	40854363	40886346	65	15	48718
CSN2	4	70820974	70826725	13	3	51396
JPH1	8	75146935	75233563	120	17	50882
ALPL	1	21835858	21904905	287	26	51325
PPP1R15A	19	49375649	49379314	21	3	46355
NR2F6	19	17342692	17356749	27	9	45769
ZNF416	19	58082934	58090295	8	4	49111
PPL	16	4932508	5010742	305	36	45363
TMEM169	2	216946589	216967506	41	6	49741
ZNF846	19	9862669	9903856	61	5	50829
LIF	22	30636436	30642840	13	5	48824
SIPA1L1	14	71787166	72207946	422	22	49467
IL5RA	3	3111233	3168297	212	49	45308
APBB3	5	139937853	139973337	30	7	48565
GJB2	13	20761609	20767037	13	4	40541
DCTN3	9	34613548	34620515	5	2	50774
APOBEC3G	22	39436924	39483748	86	12	46021
BAHD1	15	40731920	40760441	23	6	43555
NETO2	16	47111614	47177908	34	2	40283
VCPKMT	14	50575350	50583318	28	6	54094
PPFIA3	19	49622646	49654283	65	10	46667
AP003062.	11	134855246	134856693	4	2	54188
BTBD8	1	92545862	92613393	109	7	50390
MPP4	2	202509593	202563417	120	28	48411
CYP27C1	2	127941696	127977654	98	14	51515
FAM13B	5	137273649	137387650	196	14	48106
GFOD1	6	13358062	13487894	280	23	47558
FBXO3	11	33762485	33796089	89	11	50579
KCNIP2	10	103585731	103603677	24	8	50035
TAS2R5	7	141490017	141491166	2	1	49358
SPRN	10	135234170	135382916	456	31	46133
VPS33A	12	122714111	122751068	57	7	48518
PCDHAC1	5	140306302	140391929	155	13	49553
ZNF571	19	38045684	38085673	75	9	51921
GLOD4	17	660337	685581	34	9	49329
MDH1B	2	207602487	207630271	110	8	49026
RP11-565P	1	162335197	162351905	52	16	46724
UGT2B15	4	69512348	69536346	40	11	38012
CTBS	1	85015289	85040163	62	10	47720
IPO11	5	61699799	61924409	334	16	50815
PANK1	10	91342745	91405215	232	24	50810
RAB6A	11	73386683	73472182	196	20	50499
SCARA3	8	27491385	27534293	154	12	52485
OR1B1	9	125390858	125391852	7	2	47937
ARGLU1	13	107194021	107220512	22	5	46150
TROVE2	1	193028552	193060907	30	7	46518
KCNJ3	2	155554811	155714863	420	48	50351
ZNF783	7	148959262	148994393	100	15	50368
GNAT2	1	110145889	110155679	18	6	48000
OR5M1	11	56380031	56380978	2	1	45184

PTPRZ1	7	121513143	121702090	368	30	49972
THSD7A	7	11409984	11871824	1708	105	50514
CTB-186H2	17	34310692	34317306	20	3	50634
ASCL4	12	108168162	108170421	3	2	48241
TEKT3	17	15207128	15244958	104	13	47309
RASSF3	12	65004293	65091347	228	20	52962
DNAH1	3	52350335	52434507	101	8	48833
MURC	9	103340361	103350188	35	8	51060
TSFM	12	58176372	58201854	30	4	47749
BOLA1	1	149859440	149872351	21	1	49998
AMPD3	11	10329860	10529126	677	62	50155
TBC1D23	3	99979844	100044095	80	7	50861
RP11-661C	5	979480	981415	3	2	45259
SIRT5	6	13574816	13614790	57	10	50488
NEK3	13	52706775	52733996	60	8	47158
RGL2	6	33259431	33267101	2	1	37604
SLC7A10	19	33699570	33716756	35	13	42165
TMEM200C	18	5882071	5895954	33	9	46871
CTRB1	16	75252898	75258822	26	6	47651
ZNF385A	12	54762917	54785082	24	5	44274
SPTY2D1	11	18627948	18656338	67	13	47690
OR51G1	11	4944531	4945637	8	3	52642
ARHGAP29	1	94614544	94740624	179	26	48877
ZNF253	19	19976695	20005483	65	8	45699
PAFAH1B2	11	117014983	117047610	91	12	47816
ELFN2	22	37764000	37823505	198	25	48526
KALRN	3	123798870	124445172	1781	81	50660
SMIM3	5	150157508	150176296	56	5	48416
MPDU1	17	7486847	7496107	11	5	51670
MEP1A	6	46761127	46807515	113	11	51294
SECTM1	17	80278900	80291950	46	3	42691
GCM1	6	52991762	53013627	65	12	47679
SELENBP1	1	151336778	151345209	11	5	41497
AC010441	5	150157867	150176297	55	5	48316
CAMKMT	2	44589089	44999731	892	30	49846
RPS12	6	133135580	133138703	18	5	49776
PTPN9	15	75759462	75871630	116	9	49508
C10orf128	10	50362773	50396630	120	21	49428
CASR	3	121902530	122005342	391	27	50834
ZNF358	19	7580178	7585912	10	4	46870
TBC1D14	4	6910969	7034845	411	22	49732
RP11-468E	14	24620427	24636611	19	6	48720
KIAA1328	18	34409069	34812135	665	14	50288
MANEA	6	96025419	96057333	94	11	51625
IRAK3	12	66582659	66648402	79	11	44735
CTD-2583A	19	58331087	58370309	70	9	51630
ZNF587B	19	58331099	58370018	70	9	51630
EMILIN1	2	27301435	27309271	5	2	44812
MYO1E	15	59427113	59665099	625	48	48619
NPIP8	16	28648975	28670003	2	1	48798
DYNAP	18	52254988	52266724	17	5	47617

FAT1	4	187508937	187647876	346	45	46705
PSTK	10	124713897	124757029	121	13	48596
CCL28	5	43376747	43412493	44	6	44039
GRM4	6	33989628	34123399	345	35	44440
CYGB	17	74523438	74547257	40	5	50164
TAS2R46	12	11213964	11214893	2	1	49683
CLCF1	11	67131639	67141648	14	3	45605
MALSU1	7	23338358	23351348	21	5	46837
SLC19A1	21	46913486	46964325	129	15	43061
AP3M1	10	75881524	75910821	48	5	50998
CPN1	10	101801950	101841634	110	17	46548
EHD1	11	64619114	64655768	64	6	43744
GTF2H3	12	124118375	124147153	64	8	44502
OR1S2	11	57970674	57971653	5	2	53495
OLA1	2	174937175	175113426	446	18	49314
CPSF4L	17	71244588	71258491	18	4	46599
VENTX	10	135050908	135055433	19	3	40533
TUBB3	16	89987800	90005169	55	8	45127
IFI27	14	94571182	94583033	35	9	47187
OR1E1	17	3300398	3301704	3	2	51350
TMEM43	3	14166440	14185179	35	8	46959
MAP3K1	5	56111401	56191979	181	15	49003
VIMP	15	101811022	101817705	9	3	43692
COL15A1	9	101705461	101833069	295	27	50571
C12orf29	12	88427623	88443937	11	3	44448
TMEM54	1	33360195	33367039	8	2	45598
TTC8	14	89290497	89344335	72	7	50241
KCNA7	19	49570675	49576198	24	5	49641
SLBP	4	1694527	1714282	44	9	48681
DDX5	17	62495734	62504317	12	2	40772
ZNF772	19	57978031	57988938	37	4	51517
KIAA0556	16	27561454	27791690	226	10	46767
ADRA2C	4	3768075	3770251	2	1	31576
TRAM2	6	52362200	52441713	307	25	50556
CENPW	6	126661320	126670021	9	3	43463
RPUSD4	11	126071993	126081587	24	6	51932
MSRB3	12	65672423	65882024	272	16	47639
IZUMO1	19	49244109	49250166	23	2	50572
ATOH7	10	69990386	69991871	2	1	52898
LIPT2	11	74202757	74204778	5	2	50989
KIF15	3	44803209	44914868	95	12	49724
OSBPL8	12	76745577	76953589	311	13	50398
ASAH2	10	51942538	52008370	47	5	45463
AP001652.	11	58672897	58676071	8	1	50774
CCNL2	1	1321091	1334708	2	1	41899
ILF2	1	153634512	153643524	11	2	48035
NEUROD2	17	37759789	37766030	6	2	37462
TIAF1	17	27400537	27418537	35	4	49307
PLAGL2	20	30780306	30795594	9	2	50814
RGPD3	2	107021446	107084832	9	4	50453
RSPO4	20	939095	982907	162	22	46135

SENP8	15	72406599	72433311	32	4	48829
KCTD11	17	7255208	7258258	3	2	38179
FAM178A	10	102672326	102724893	67	11	49501
TMEM176A	7	150497491	150502208	29	6	51017
SCGB3A2	5	147250245	147261754	51	6	50249
NDUFA9	12	4758261	4798454	119	16	51492
VPS13D	1	12290124	12572099	258	17	40674
PHF2	9	96338689	96441869	398	22	50502
RBAK-RBAK	7	5023349	5112852	326	17	52754
HRASLS2	11	63320242	63330855	10	3	39149
WDFY3	4	85590704	85887544	261	15	48163
MSANTD3	9	103189438	103213511	58	5	49806
GRIN2C	17	72838162	72857627	35	3	48902
CRISPLD1	8	75896750	75946793	150	18	48247
MAGEL2	15	23888691	23891175	1	1	40160
IKBKAP	9	111629797	111696396	269	23	51076
AL929472.1	1	38292232	38293886	1	1	56398
ZFPM1	16	88519725	88603424	244	32	37488
CXCL6	4	74702214	74714781	20	6	44307
YDJC	22	21982378	21984353	4	2	46391
LCA5	6	80194708	80247175	100	13	48409
SCGB1D2	11	62009682	62012280	8	4	48959
PURG	8	30853321	30891231	39	7	49021
SPTAN1	9	131314866	131395941	68	2	45075
COLQ	3	15491640	15563258	206	21	49736
MT1B	16	56685811	56687116	10	2	50138
TCTE3	6	170140210	170151655	30	5	45526
DAZAP2	12	51632076	51665146	64	8	46572
RIN3	14	92980118	93155339	579	67	50517
DCC	18	49866542	51057784	4026	103	50107
NTAN1	16	15131710	15149921	33	4	51651
BACE2	21	42539728	42654445	260	41	46858
SLC25A4	4	186064395	186071536	11	4	47756
SYNPO	5	149980642	150038782	68	17	43391
RBM27	5	145583113	145718814	209	12	48507
PARN	16	14529558	14726585	239	17	48910
HMGB2	4	174252846	174256276	3	1	45535
CCBE1	18	57098172	57364612	898	69	49108
ADTRP	6	11712287	11807279	276	29	47936
SUN2	22	39130730	39190148	90	14	46535
C15orf37	15	80215113	80217194	13	4	52477
MAGOH	1	53692564	53704282	20	5	44953
GIMAP1	7	150413645	150421372	18	5	51917
HK2	2	75061108	75120486	158	23	49295
ATP6V0A2	12	124196865	124246302	119	6	47787
NDUFS8	11	67798084	67804111	11	3	48258
SLC35A3	1	100435345	100492535	160	12	44179
POLR2M	15	57884231	58074960	476	58	48208
ADAM29	4	175750819	175899331	576	21	52022
GABRR2	6	89966927	90025018	186	34	48750
INTU	4	128544426	128647892	95	10	49070

HAUS1	18	43684298	43708299	56	7	51978
PLAGL1	6	144261437	144385735	276	30	50545
NCALD	8	102698771	103137135	1077	65	48603
RP11-830F1	16	89006197	89017932	10	3	40639
KLRB1	12	9747147	9760482	50	10	48036
KRT7	12	52626304	52645970	52	10	47835
CCRN4L	4	139936943	139966906	31	7	49712
GCAT	22	38203912	38213183	21	3	50514
DPP8	15	65734801	65810042	142	10	46070
LRRK2	12	40590546	40763087	532	30	48835
KHNYN	14	24898492	24910540	61	10	45633
MS4A3	11	59824060	59838601	45	7	50052
DOC2A	16	30016830	30034591	28	4	47459
RTN4R	22	20228938	20270769	32	8	37908
LRRC2	3	46556913	46621589	222	20	52449
NRM	6	30655824	30659197	13	5	38586
ZBTB4	17	7362685	7387582	52	7	51218
SLC22A6	11	62703857	62752455	95	12	48946
RBPMS2	15	65032091	65067786	80	9	44714
DHTKD1	10	12110971	12165224	142	14	50737
CCDC67	11	93063137	93171653	287	17	48715
ATP5S	14	50779044	50802276	50	3	52475
PLA2G10	16	14766405	14788526	9	3	49951
RP11-512M	12	122692326	122750970	78	8	48728
OAT	10	126085872	126107545	65	8	50824
SIGLEC14	19	52145806	52150054	2	1	39768
UGDH	4	39500375	39529931	109	14	47742
GNA12	7	2767746	2883958	288	15	50190
SEZ6L2	16	29882480	29910868	18	3	46129
C9orf117	9	130469268	130478281	7	2	46812
EIF3D	22	36906897	36925483	91	10	48112
GNG8	19	47137333	47137942	1	1	41875
TIMELESS	12	56810903	56843187	67	6	46963
PRDM13	6	100054606	100063454	9	4	51832
AC004528.	19	999601	999952	2	1	37934
C4orf40	4	70999333	71042516	139	17	49550
GLP2R	17	9725523	9795419	199	14	49414
BTRC	10	103113820	103317078	354	14	49733
ALDH1A2	15	58245622	58790065	1739	118	48937
SLC35E2	1	1656277	1677431	5	1	34264
NCBP2	3	196662273	196669468	23	6	46733
KDR	4	55944644	55991756	103	20	46397
TMEM230	20	5080486	5093749	14	2	48942
GRIP1	12	66741211	67197966	1267	83	50666
RING1	6	33176272	33180499	9	4	44180
TBC1D2B	15	78276378	78370066	280	21	47004
KRT10	17	38974369	38978847	8	3	51361
NOP58	2	203130439	203168389	66	6	51137
SUMF2	7	56131695	56148363	39	8	51754
CASP5	11	104864962	104893895	52	11	50291
LMAN2L	2	97371666	97405801	36	5	47441

PRL	6	22287480	22297730	21	6	48905
NDUF4F4	6	97337189	97345757	29	7	53218
ZNF468	19	53341261	53360902	77	9	46870
F7	13	113760105	113774995	18	4	44911
TAS2R41	7	143174966	143175889	3	1	43148
APCDD1L	20	57034157	57090187	128	25	46011
MAP4K4	2	102313312	102511149	284	18	51092
RAI14	5	34656342	34832732	507	51	50457
KMO	1	241695434	241758944	191	35	48140
ZNF485	10	44101855	44113351	45	8	51105
ITIH3	3	52828784	52843025	20	6	48025
GCSAML	1	247670360	247740992	209	35	50965
ULBP3	6	150384286	150390231	27	8	50925
ART3	4	76932337	77033955	465	23	50647
MMS19	10	99218081	99258551	64	10	49250
ZNF83	19	53097313	53193749	398	32	49679
UBE2Z	17	46985731	47006418	46	3	48909
FUT6	19	5830621	5839742	30	6	44580
ZIM2	19	57285920	57352097	75	11	49724
RP11-343C	16	69362547	69368774	11	3	53280
SMAD7	18	46446223	46477081	82	19	47828
TRAPPC3	1	36602173	36615098	13	1	50453
HECW1	7	43152198	43605600	1287	94	50932
MYOD1	11	17741115	17743678	4	2	41701
KREMEN2	16	3013945	3018384	13	2	42741
C1orf61	1	156374042	156400493	25	8	41389
PIK3R6	17	8706041	8770994	105	15	50118
C8orf46	8	67372238	67430759	120	19	51058
AC013449	2	26251074	26251481	1	1	47998
GUCY1B3	4	156680144	156728743	117	22	46027
SPINK8	3	48348336	48369831	36	2	54729
EGLN1	1	231499497	231560790	234	6	49470
MAP4K1	19	39078281	39109522	39	7	47057
FRG1	4	190861943	190884359	29	1	45505
RP11-763F1	4	92240185	92246457	24	3	51363
SPRR1A	1	152956557	152958289	7	1	47439
AC010547	16	71481503	71523214	63	11	50020
OR2W1	6	29011990	29013017	2	1	51684
BEGAIN	14	101003486	101053750	89	10	44416
TTC9	14	71108504	71142077	81	17	47759
AFG3L2	18	12328943	12377313	90	8	48239
AC106873	7	116605900	116607526	2	1	43631
GAA	17	78075355	78093678	89	8	50849
SHANK2	11	70313961	70963623	1620	123	45937
RNF122	8	33405273	33424643	45	6	45096
HSD3B1	1	120049821	120057681	6	1	47200
CAPN13	2	30945637	31043408	344	49	47061
RP11-894J1	3	53003135	53133469	284	15	51179
EFNB3	17	7608520	7614696	7	3	37251
HLA-DQB1	6	32627244	32636160	41	7	39572
ELL	19	18553473	18632937	161	8	48479

G6PC2	2	169757750	169766505	11	3	46357
CD59	11	33719807	33757991	112	18	48851
TBC1D10A	22	30687979	30723035	55	13	50526
HOXA10	7	27210210	27219880	9	3	45698
ABCD3	1	94883933	94984222	98	12	48518
VPS33B	15	91541646	91565833	69	10	49459
TRIM5	11	5684425	5959849	1307	51	51892
GPR20	8	142366600	142377367	38	7	47333
PDE7A	8	66629745	66754557	263	17	48840
CCDC23	1	43272723	43282954	20	5	48677
BBS5	2	170335688	170382432	106	17	51651
RP11-7240	2	170335990	170382432	106	17	51651
ATP13A2	1	17312453	17338423	42	8	47069
NELFE	6	31919864	31926887	16	6	45114
SEMA5A	5	9035138	9546187	1497	130	49150
CD22	19	35810164	35838258	86	23	43622
CCDC170	6	151815165	151942328	474	36	50349
CHKB	22	51017378	51039884	100	17	46910
HPS3	3	148847371	148891519	149	20	51306
ZCWPW2	3	28390637	28579613	236	17	52635
ANTXRL	10	47657581	47701443	91	12	35449
MEX3B	15	82334119	82338482	2	1	47593
GATA5	20	61038553	61051026	40	9	43352
UBXN11	1	26607819	26644854	120	10	48350
WWC2	4	184020446	184241930	355	32	50430
MYSM1	1	59120411	59165764	144	10	52298
TBC1D32	6	121400640	121655891	521	15	46576
MRFAP1	4	6641818	6644472	7	3	40352
VKORC1L1	7	65338254	65424550	142	10	50389
CELF6	15	72577068	72612470	56	6	40022
KCNG4	16	84255823	84273356	81	15	50234
EIF2B2	14	75469614	75476292	5	1	50770
TREML1	6	41117080	41122075	5	1	53160
VIPR1	3	42530791	42579059	102	21	47105
ANKRA2	5	72848160	72861511	36	5	51008
OR10A5	11	6866883	6867936	1	1	48583
AC023469.	2	151857734	151905288	188	19	50107
MTERF	7	91321323	91510034	264	14	51620
TSHR	14	81421333	81612646	587	38	50171
PTPRCAP	11	67202981	67205538	4	1	44009
EIF3A	10	120794356	120840316	55	7	43453
SLC25A22	11	790475	798316	9	4	46194
ORAI3	16	30960387	30967782	1	1	48774
TRAF5	1	211499957	211548288	97	16	47121
TET1	10	70320413	70454239	396	17	50232
MBOAT4	8	29989340	30002202	27	4	47122
UNC5CL	6	40994772	41006928	17	3	48406
KRTAP19-6	21	31913854	31914183	1	1	53085
BPIFA3	20	31805116	31815564	9	4	47373
AC017104.	2	232316906	232317864	3	2	45212
CDC42	1	22379120	22419437	86	12	50102

PTPRN2	7	157331750	158380480	3227	205	48514
RNF149	2	101887681	101925163	56	11	47263
ATPAF1	1	47098409	47139539	64	3	51018
TRERF1	6	42192669	42419789	426	34	47953
DDX55	12	124086624	124105488	64	8	49986
SYN3	22	32908539	33454358	1499	108	49667
ATAT1	6	30594619	30614600	38	11	42737
CHI3L1	1	203148059	203155877	27	5	41979
LTA4H	12	96394606	96437298	115	13	49788
SLC25A36	3	140660672	140698775	73	4	48155
RNASEL	1	182542769	182558391	27	8	50084
GNRH1	8	25276776	25282170	5	2	51684
NFKBIB	19	39390340	39399533	22	5	47707
UTS2	1	7903143	7913572	39	11	50244
ESR2	14	64550950	64804830	546	35	46955
KAT5	11	65479467	65487075	22	5	50921
NKX2-3	10	101292690	101296278	8	2	52951
BCDIN3D	12	50231573	50236912	11	4	49639
CCDC88B	11	64107695	64125006	35	6	48673
PARP11	12	3900213	3982608	212	20	49354
ALG9	11	111657010	111750149	80	7	48160
FOXA1	14	38059189	38069245	19	6	47995
NAALADL2	3	174156363	175523428	3744	196	50240
QSOX1	1	180123969	180173165	173	14	49462
STAU2	8	74332604	74659943	827	34	50026
FAM229B	6	112408802	112423993	46	3	51098
RNF169	11	74459913	74553458	144	12	50716
SMAD9	13	37418968	37494902	102	14	48697
RNF220	1	44870866	45117396	557	64	48000
PIK3C3	18	39535171	39667794	143	8	52491
C16orf95	16	87117168	87351022	947	66	48290
DEF8	16	90014333	90034468	78	11	47474
HYPK	15	44088340	44095241	8	3	47528
VAPA	18	9913999	9960018	119	18	50565
COPS7A	12	6832907	6841041	30	5	50261
VPS26A	10	70883268	70932617	102	9	50607
MAP2K4	17	11924141	12047147	138	10	49701
DNAJC21	5	34929698	34959069	41	8	49293
PRR26	10	695888	711109	10	3	42459
NAT8L	4	2061239	2070816	11	1	44015
TRHR	8	110098850	110131813	81	12	51999
HAUS5	19	36103646	36116251	16	5	48257
MRAP2	6	84743475	84800600	130	12	48760
HSPA12B	20	3713314	3733758	43	11	44350
ADAM15	1	155023042	155035252	20	7	45270
SKIV2L2	5	54603588	54721409	228	7	49699
GTF3A	13	27998681	28009958	36	6	50414
C14orf64	14	98391947	98444461	158	17	50534
RARG	12	53604354	53626764	31	7	44654
HIPK2	7	139246316	139477577	374	36	45347
HNF4A	20	42984340	43061485	200	33	49159

IFITM10	11	1753640	1771821	42	4	44723
COL11A1	1	103342023	103574052	913	31	49630
VANGL2	1	160370376	160398468	51	8	49928
ZNF691	1	43312280	43318148	4	2	52064
RAD21L1	20	1206700	1277065	179	25	50628
CBLL1	7	107384142	107402112	25	4	53150
SCRN2	17	45915058	45918699	11	6	44523
AGPAT4	6	161551011	161695093	407	40	50185
SPRR2F	1	153084590	153085991	1	1	50758
UBE3B	12	109915207	109974507	122	14	52315
MEF2A	15	100017370	100256671	500	48	49170
CCNT1	12	49082247	49110681	57	8	46690
TPRX2P	19	48337701	48364769	138	12	49939
TAP2	6	32789610	32806557	149	22	48209
POGZ	1	151375200	151431941	64	4	45814
NAA11	4	80146848	80247204	160	15	50809
SLC39A11	17	70642088	71088851	1307	131	47163
STK4	20	43595115	43708600	177	12	52236
PRR18	6	166719168	166721936	7	2	54301
ERCC3	2	128014866	128051752	78	14	50080
DISP2	15	40650436	40663257	27	7	52356
CTA-299D3	22	48934712	48943199	18	3	47480
OR9G4	11	56510303	56511287	3	1	46442
SUN3	7	48026745	48068716	62	6	49937
ADPGK	15	73043710	73078187	64	9	47311
MTBP	8	121457640	121554373	209	9	46978
G3BP2	4	76567966	76649709	189	17	50962
MFRP	11	119209652	119217368	15	7	42324
C1QTNF5	11	119209652	119217383	15	7	42324
MFRP	11	119209652	119217383	15	7	42324
ENTPD4	8	23243296	23315208	199	22	52151
AMBP	9	116822407	116840752	52	8	45916
MINK1	17	4736683	4801356	143	14	47290
CSN1S1	4	70796799	70812289	33	6	49315
RPL34	4	109541722	109551568	16	3	47332
RP11-178L	16	87336482	87367879	116	18	46886
ZNF563	19	12428291	12444534	24	2	53070
TFAP2C	20	55204358	55214339	8	3	47316
OR5P3	11	7846584	7847519	3	1	46428
TMEM156	4	38968365	39034542	229	32	48651
ASCC3	6	100956070	101329248	763	19	46837
PPP1CB	2	28974506	29025806	103	11	48496
RP11-321N	6	86267696	86324952	69	14	47936
UBE2Q2	15	76135622	76193419	85	8	46520
TNFRSF13B	17	16832849	16875432	163	18	51098
ESYT3	3	138153428	138200528	78	13	43959
FAM188B	7	30811033	30932002	407	28	49626
STMN1	1	26210672	26233482	22	4	48484
AOC1	7	150521715	150558592	171	16	50775
AC110615.	4	76871883	76878526	14	5	45156
CYC1	8	145149930	145152428	1	1	42911

SLC6A17	1	110693108	110744824	90	12	44781
ERN1	17	62116502	62208179	138	14	46579
ZC3H18	16	88636789	88698374	197	27	50000
PF4V1	4	74718906	74719872	2	1	46919
PKHD1	6	51480098	51952423	1377	52	50148
GJC3	7	99520892	99527243	18	4	50712
POLR2I	19	36604612	36606248	4	2	49873
STXBP1	9	130374544	130457460	73	11	44668
RFX4	12	106976685	107156581	329	20	49639
TMEM225	11	123753633	123756349	10	3	52280
PLBD2	12	113796371	113827203	44	3	43758
PARVB	22	44395091	44568829	534	79	46214
DTNA	18	32073254	32471808	817	21	50959
FASLG	1	172628154	172636014	8	3	50753
YAF2	12	42550906	42632151	126	13	49472
OR4K13	14	20502003	20502919	2	1	49379
PDCD11	10	105156405	105206049	58	10	49720
PSMB2	1	36067185	36107445	6	2	38250
TIPIN	15	66628544	66679084	124	19	49692
OR10P1	12	56030644	56031638	3	1	47414
RBM4B	11	66432469	66445392	10	5	45856
CAV1	7	116164839	116201233	92	12	51274
GZMH	14	25075686	25078905	4	2	39819
ANPEP	15	90328120	90358633	101	11	49023
MYL7	7	44178463	44180931	9	3	51457
ATF7IP	12	14518610	14651697	263	16	48124
EXOSC8	13	37572953	37583750	13	2	48504
OCLN	5	68788119	68853931	24	4	37023
SCGB2B2	19	35084234	35166604	309	22	49995
CNIH4	1	224544552	224567161	35	4	49855
TACO1	17	61678231	61685725	1	1	56632
FUCA1	1	24171567	24194784	29	4	51119
CHRNA10	11	3686817	3692614	22	4	46002
RP11-795F1	18	77794346	77854968	243	18	49723
ENTHD1	22	40139049	40289868	156	12	50444
RPL27	17	41150290	41154976	7	2	51837
AC003005.1	19	57999086	58016749	71	5	53286
HERC2	15	28356186	28567298	78	3	34562
SGK494	17	26934982	26941218	4	2	42847
KRTAP9-7	17	39431911	39432949	1	1	49391
ZNRF4	19	5455426	5456867	11	3	46077
EXD2	14	69658228	69709075	86	8	49574
IRF2	4	185308867	185395734	262	48	48232
SIAH2	3	150458914	150481264	40	3	35888
TLL1	22	43435522	43485434	157	20	44859
ZDHHC22	14	77597613	77609077	21	8	48644
CELF1	11	47487496	47587121	96	15	48203
SUV39H2	10	14920819	14946314	36	10	44566
KCNIP1	5	169780491	170163636	1152	120	48723
PEX11B	1	145516252	145523730	2	1	31016
ZNF675	19	23708433	23870022	352	18	50844

HIGD1B	17	42923721	42927848	11	5	46785
CBS	21	44473301	44497053	78	14	50578
PSCA	8	143751726	143764142	53	5	45736
CLEC5A	7	141627157	141646807	44	5	43283
GPR179	17	36481413	36499730	23	4	41586
ECT2	3	172468472	172539264	126	12	49055
KRTDAP	19	35978226	35986460	26	6	50002
NSRP1	17	28442539	28513493	77	6	48137
PHF11	13	50069746	50103123	94	12	48876
FGF12	3	191857184	192485553	1442	116	48907
HIST1H3D	6	26197068	26199521	8	2	52836
RP1-4G17.1	17	7150148	7165408	22	3	49169
TIMM21	18	71815746	71826197	43	3	46343
CHMP5	9	33264940	33281977	18	4	50721
TGM4	3	44916100	44956482	92	10	51963
PNP	14	20937113	20945253	14	2	49040
MYPN	10	69865912	69971774	379	25	49012
KREMEN1	22	29469066	29564321	258	23	50630
CLEC18B	16	74442529	74455368	1	1	40595
UBE2B	5	133706870	133727683	27	2	50501
AGT	1	230838269	230850043	52	10	48569
STARD10	11	72465774	72504726	69	8	52095
SELV	19	40005753	40011326	9	3	50723
SCAI	9	127704887	127905785	259	14	51496
CD4	12	6896024	6929974	93	15	44554
PGAP1	2	197697728	197792520	140	7	49796
ABCC4	13	95672083	95953687	1029	79	48720
CDCA4	14	105475910	105487485	57	5	50007
COL5A1	9	137533620	137736686	758	57	48529
ANKMY1	2	241418839	241508626	283	36	49374
HCN2	19	589893	617159	52	10	34320
C2orf74	2	61372243	61391964	63	6	53496
WHSC1	4	1873151	1983934	31	11	37175
DEFB114	6	49927962	49931818	11	3	53991
AC011294.1	7	46713383	46799449	284	23	51642
ZNF724P	19	23404401	23433192	59	5	51086
EMB	5	49692026	49739082	67	6	53010
TRIM77	11	89443467	89451040	15	2	53585
NLRC5	16	57023397	57117443	326	53	48578
PPP2CB	8	30631973	30671830	93	10	49428
UGT8	4	115519611	115599380	112	15	45083
UCP1	4	141480588	141489959	15	3	53582
LGALS12	11	63273556	63284246	14	3	42429
RP11-998D	14	21500977	21502054	4	2	41852
TGM3	20	2276647	2321724	93	9	44987
FAXDC2	5	154198051	154238812	54	9	47679
EPHA3	3	89156674	89531284	595	23	50745
TICRR	15	90118713	90174287	110	9	47131
ZNF14	19	19821280	19843906	51	9	51850
NEK10	3	27151576	27410951	684	21	49489
CRAMP1L	16	1662326	1727909	101	8	47824

ADRA2A	10	112836790	112840658	6	3	49467
SLC52A1	17	4935895	4955304	60	8	48189
TYK2	19	10461209	10491352	75	12	49313
KIDINS220	2	8865408	8977760	130	12	49126
LPIN1	2	11817721	11967535	365	38	47461
ZNRF1	16	75032928	75144892	193	16	46940
C14orf183	14	50550369	50559361	18	5	51781
ERP29	12	112451120	112461255	11	3	46721
CTB-58E17	17	36905613	36906969	2	1	48818
CHRNA1	17	7348380	7361026	28	5	50390
HNRNPK	9	86582998	86595569	17	5	46223
FAM168B	2	131805449	131851033	39	3	49028
IMPDH1	7	128032331	128050306	56	13	47680
SLC13A2	17	26800311	26824799	27	9	47893
EEF1A1	6	74225473	74233520	17	4	48748
ZFYVE1	14	73436159	73493920	221	19	52135
PYHIN1	1	158900586	158946844	81	9	47645
FAM111B	11	58874658	58894883	23	5	49108
SOGA1	20	35405845	35492089	90	17	47761
IL17RE	3	9944296	9958086	32	2	52158
PCDHB1	5	140430979	140433512	1	1	34465
PSMB1	6	170844205	170862429	52	7	50410
WDR52	3	113005777	113160457	508	18	50318
KRTAP22-1	21	31973414	31973612	2	1	43013
MAPK3	16	30125426	30134827	8	3	43057
MPP2	17	41952725	41987068	76	7	50540
TMEM60	7	77423045	77427897	13	6	45662
KLRC3	12	10564911	10573194	4	2	50286
CPO	2	207804278	207834198	69	10	50516
PPCS	1	42921788	42939056	32	4	53926
IKZF4	12	56401443	56432219	24	4	47068
ZNF613	19	52430400	52452012	73	8	48664
AC051642	8	23412287	23420651	41	8	51359
MMADHC	2	150426148	150444330	29	4	47336
RDM1	17	34245070	34257777	29	3	52146
C6orf62	6	24705089	24721064	29	8	49843
ZNF222	19	44529494	44537265	11	3	47138
RP9	7	33134409	33149013	29	4	51834
ITK	5	156569944	156682201	395	35	50014
CST4	20	23666277	23669677	13	4	49750
EML1	14	100204030	100408397	536	37	49850
SOD1	21	33031935	33041244	15	4	41670
ADORA2B	17	15848231	15879060	37	5	42714
ACTR3	2	114647537	114720173	197	14	49793
CLDN23	8	8559448	8561616	14	2	54625
MYPOP	19	46393278	46405862	38	7	49676
AC016586	19	4041127	4043154	5	3	36429
ZNF90	19	20188803	20237885	85	12	42196
PSMD6	3	63996225	64009658	30	7	46107
PRKAG3	2	219687106	219696809	3	1	44840
ST3GAL1	8	134467091	134584183	402	66	47944

RPL10A	6	35436185	35438562	8	4	42519
LDB3	10	88428206	88495825	219	31	49819
ZNF470	19	57078880	57100279	64	6	51314
SLC45A3	1	205626979	205649587	48	14	47216
PLEKHG7	12	93115281	93166231	96	14	50217
SYTL2	11	85405267	85522184	253	15	49963
RARRES2	7	150035408	150038763	7	2	51579
COQ6	14	74416629	74430373	43	9	49563
HLA-DOB	6	32780540	32784825	34	9	50153
CDS2	20	5107432	5178533	116	12	49427
CDV3	3	133292574	133309105	39	6	49384
TAC3	12	57403784	57422667	27	4	50623
FXR2	17	7494548	7518189	30	7	47980
TTC38	22	46663858	46689905	72	6	46862
PIK3R2	19	18263968	18288927	50	10	47718
NSMCE4A	10	123716603	123734732	66	8	49725
PRKG1	10	52750945	54058110	3818	200	49780
CHEK2	22	29083731	29138410	111	15	49943
STAU1	20	47729878	47804904	128	14	50637
ZBED3	5	76367897	76383148	40	8	49740
TFPI	2	188328957	188430487	193	26	51097
SMIM1	1	3689352	3692546	10	4	42134
SRD5A1	5	6633456	6669675	127	15	50098
ITLN1	1	160846329	160854960	28	1	49384
FUT8	14	65877310	66210839	669	27	47542
SERPINA6	14	94770585	94789731	75	12	51211
PSMG1	21	40546695	40555777	37	6	49539
JOSD2	19	51009255	51014610	10	4	48474
CHAC1	15	41245160	41248710	3	2	49431
A2M	12	9220260	9268825	109	8	51000
TREML2	6	41158015	41168932	42	9	49653
ETV7	6	36322419	36356164	101	24	46275
OR5AP2	11	56408942	56409947	2	1	49236
NME9	3	137980279	138048728	45	13	42408
TRAF7	16	2205699	2228130	10	3	37238
STRN3	14	31363005	31495607	271	15	49987
WIBG	12	56295197	56326402	35	6	46900
CLEC14A	14	38723308	38725574	1	1	49358
FAM98B	15	38746328	38779911	104	11	45362
RP11-481A	8	11870545	11873043	2	1	44669
EGF	4	110834040	110933422	179	12	47804
THBD	20	23026270	23030378	5	2	47871
PDGFD	11	103777914	104035107	774	54	51802
MIDN	19	1248552	1259142	1	1	30390
NUP133	1	229577045	229644103	119	4	50405
FAM46B	1	27331511	27339327	7	2	48436
SFT2D1	6	166733216	166756079	45	5	51940
AKAP7	6	131456806	131604675	261	23	51445
KSR1	17	25783670	25953461	297	26	51074
FAM73B	9	131798900	131834361	21	5	42692
ISL2	15	76629065	76634817	14	4	49773

SMIM20	4	25863452	25931435	179	22	47601
AKR1E2	10	4828821	4890254	395	34	50812
MORN5	9	124922190	124962367	103	17	46882
DIABLO	12	122692210	122712081	21	4	48723
ELAVL3	19	11562141	11591861	67	9	44469
PLA1A	3	119316689	119348658	112	10	48544
OTOGL	12	80603233	80772870	302	23	49127
FOXRED1	11	126138950	126148026	17	6	50297
EPO	7	100318423	100321323	6	3	47199
CLUL1	18	596988	650334	147	28	44778
CLIP2	7	73703805	73820273	183	10	43364
GPR3	1	27719148	27722318	2	1	35018
IGFBP4	17	38599702	38613983	26	5	46891
MRPL38	17	73894724	73905899	17	5	46880
RBKS	2	28004231	28113965	159	9	46664
AC006946.	22	17602476	17612994	42	9	51752
PTEN	10	89622870	89731687	123	26	48352
PPM1G	2	27604061	27632554	31	5	48355
IPO13	1	44412611	44433694	32	5	45700
EMG1	12	7072408	7105520	33	5	44353
NACA2	17	59667794	59668563	4	1	47638
GTPBP3	19	17445729	17453544	27	5	48201
DCXR	17	79993012	79995608	13	1	45291
RP11-279O	4	186392670	186393417	2	1	39931
TTC27	2	32853099	33046118	631	36	48810
NT5DC1	6	116422012	116570660	318	22	49534
RP11-664D	8	69215703	69243726	42	8	47203
LPHN1	19	14260750	14316999	61	8	40458
LRAT	4	155548097	155674270	198	14	48088
LRRC43	12	122652285	122688018	64	11	50432
CTB-133G6	19	7413848	7448271	99	7	43496
TNFRSF10A	8	23047965	23082639	94	13	47632
RAB28	4	13362978	13485989	349	10	39676
ERMN	2	158175137	158184225	5	2	33425
TP53I11	11	44907454	44972840	168	29	46156
KDM7A	7	139784546	139876835	180	13	52083
ARSI	5	149675906	149718870	99	16	50285
ANKS4B	16	21244986	21263750	30	9	41071
LONP2	16	48278207	48397033	117	8	49752
TRIML1	4	189060573	189068897	63	11	49784
GDF11	12	56137064	56150911	7	2	46974
PRMT8	12	3490515	3703139	435	67	47291
SRGN	10	70847862	70864567	40	7	50468
CDC42SE1	1	151023447	151042801	26	8	44477
ETFA	15	76507696	76603813	180	13	52088
TBC1D2	9	100961311	101017915	220	25	51060
RMND5B	5	177557997	177577566	50	6	48414
AQP12A	2	241631262	241637900	2	1	52935
TSEN15	1	184020811	184043346	28	8	48013
ANXA2	15	60639333	60695082	128	20	50603
EFCAB2	1	245133007	245290466	380	18	50138

CATSPER3	5	134303596	134347392	46	10	50117
SH3GLB1	1	87170259	87213867	60	8	49161
GALNT8	12	4829507	4960277	375	37	51059
SHC2	19	416583	460996	84	14	37822
LASP1	17	37026112	37078023	152	28	47794
CES5A	16	55880066	55989943	261	23	49548
CHRAC1	8	141521397	141527236	8	3	43507
SLC30A4	15	45771809	45815005	29	5	48599
UNC5A	5	176237478	176307897	54	11	37920
PISD	22	32014477	32058418	135	13	47893
PVR	19	45147098	45166850	38	8	47228
NKIRAS1	3	23933151	23988082	157	12	51070
HMG20B	19	3572775	3579086	3	1	31998
CSRNP1	3	39183346	39196053	32	8	47647
SLC2A9	4	9772777	10056560	1079	25	47635
COL8A1	3	99357319	99518070	330	26	51156
DPEP1	16	89679716	89704839	71	12	45261
C16orf47	16	73160536	73178346	36	10	47105
ESYT2	7	158523686	158622944	366	13	49261
SLC22A14	3	38323785	38360066	170	8	52997
SLC35D1	1	67465015	67519782	153	13	49009
TTC26	7	138818490	138876732	106	4	40436
SCTR	2	120197419	120282070	256	23	48457
SPO11	20	55904815	55919050	31	2	49890
MCM2	3	127317066	127341276	17	6	48034
HACL1	3	15602211	15643338	63	15	47349
FBL	19	40325098	40337054	20	6	49456
ABCA1	9	107543283	107690518	546	64	47257
FBXL20	17	37415384	37558776	257	9	48033
PDIA3	15	44038590	44065477	31	4	48797
BNIP1	5	172571445	172591390	41	8	52015
RP11-637O	6	10748027	10930656	379	37	49010
ALDH2	12	112204691	112247782	33	4	49651
GAS2L3	12	100967461	101022064	118	13	50372
IRS1	2	227596033	227664475	117	8	45547
P4HA2	5	131527531	131631008	216	20	49895
SLC6A18	5	1225470	1246304	74	14	46219
LTB4R2	14	24774940	24781259	12	3	46108
ARHGAP22	10	49654077	49864310	666	48	49705
DYRK3	1	206808881	206857764	86	12	50130
SPRED1	15	38544527	38649450	312	9	50853
SCUBE2	11	9041071	9159661	292	37	50294
EFCAB13	17	45400656	45518678	272	12	48825
MCOLN1	19	7587512	7598895	14	5	46455
CAMKK1	17	3763609	3798185	62	16	37407
DCTN6	8	30013813	30041156	39	5	49285
THG1L	5	157158205	157168456	45	9	51065
KRTAP10-9	21	46047040	46048294	8	2	43080
CTC-241N9	5	179286013	179288283	3	1	48758
CIPC	14	77564440	77583630	33	7	52248
HGSNAT	8	42995556	43057998	46	7	41792

KDELR2	7	6485584	6523873	126	22	45493
C1orf115	1	220863187	220872499	34	7	47364
MYO16	13	109248500	109860355	2118	139	50041
ZNF189	9	104161155	104172942	41	5	53065
CEP350	1	179923873	180084015	347	14	49172
SCGB2A2	11	62037627	62040628	5	3	48409
WBSCR16	7	74441226	74490064	7	2	37040
DNAJA4	15	78556428	78574538	56	11	50863
HACE1	6	105175968	105307794	246	16	51653
NANOG	12	7940390	7948655	44	4	50008
CPEB3	10	93806449	94050844	269	13	50020
KLF5	13	73629114	73651676	46	10	49042
IGF1	12	102789645	102874423	107	13	49111
CPAMD8	19	17003758	17137625	325	43	46333
PLVAP	19	17462257	17488159	75	15	42915
GNB1L	22	19770747	19842462	142	20	49160
BTBD11	12	107712190	108053419	833	57	50587
NPBWR2	20	62737173	62738524	5	2	46946
RBM24	6	17281577	17294106	20	6	49406
PHF5A	22	41855721	41864729	13	2	45353
GSG1	12	13236494	13256619	14	5	49901
PPM1M	3	52279841	52284613	2	1	43575
SNX25	4	186125391	186291339	395	27	49781
TNS3	7	47314752	47622156	721	78	50107
EYA4	6	133561736	133853258	730	48	50150
MEIOB	16	1883984	1934295	316	5	54185
TAF9	5	68646811	68665840	19	4	39991
ERBB2IP	5	65222303	65378377	143	14	42886
SLC38A11	2	165752696	165812035	159	17	51490
RSBN1	1	114304454	114355098	62	11	46437
HORMAD1	1	150670536	150693364	54	4	51341
SCARA5	8	27727399	27850244	483	48	50829
RFPL4A	19	56270380	56274541	7	2	47221
FOXA3	19	46367247	46377055	22	7	45601
OAZ3	1	151735445	151743808	14	3	50896
REG1B	2	79312156	79315145	13	3	50648
SEPW1	19	48281829	48287943	5	2	47034
USP33	1	78161672	78225537	82	15	46843
OR2AG2	11	6789218	6790286	4	2	52219
CASKIN2	17	73496342	73511664	40	6	42180
NAGS	17	42081914	42086431	9	2	44917
CCDC180	9	100000765	100140806	337	13	50653
C3orf30	3	118864997	118878889	47	10	52287
DISC1	1	231762561	232177018	955	97	48683
PRKACB	1	84543745	84704181	180	16	50536
ZNF672	1	249132409	249143716	9	2	44106
AP5B1	11	65543364	65548273	7	3	50997
AC008271.	2	15830906	15884463	178	21	48986
FHL2	2	105974169	106054970	243	40	49887
GRAMD1C	3	113547029	113666021	227	31	50186
PSG4	19	43696854	43711451	7	3	31983

ANO3	11	26210829	26684835	2211	66	50002
PRKAB1	12	120105558	120119435	20	4	49154
LRRC70	5	61874562	61877275	2	1	52036
COL8A2	1	36560837	36590821	52	7	48135
PTPN11	12	112856155	112947717	46	9	45684
TYROBP	19	36395303	36399197	9	2	41794
EIF3C	16	28699879	28747051	1	1	34337
DNAJC18	5	138744279	138780180	34	4	43583
ADNP	20	49505585	49547958	68	7	51475
POLL	10	103338639	103348027	16	2	49207
IL36B	2	113779668	113810444	88	10	51882
RP11-507M	2	24347236	24413305	200	21	47958
RPS6KB2	11	67195931	67202872	10	2	45878
CKMT2	5	80529104	80562216	84	9	51272
VDAC3	8	42249142	42263415	13	3	40805
CACHD1	1	64936428	65158741	400	50	44154
CACNA1I	22	39966758	40085742	231	25	45849
RGS7	1	240931554	241520530	1650	138	49220
ETNPPL	4	109663196	109684210	53	5	45466
CTF1	16	30907928	30914881	6	2	49211
BTBD6	14	105714827	105717430	3	1	50129
ATP6V1G2-	6	31497996	31514385	87	17	48216
PDCL3	2	101179152	101193197	36	6	48996
INTS3	1	153700543	153746555	63	9	46038
PTGDR	14	52734431	52743442	35	8	50317
DOK6	18	67068291	67516323	1469	110	50562
TP63	3	189349205	189615068	904	109	49194
KCNN1	19	18062102	18110889	102	15	49884
CTD-2192J	19	12636534	12691789	79	12	43085
OR10Q1	11	57995354	57996390	2	1	49941
RP11-201K	1	155141885	155159748	23	6	47955
AP001024.	11	107650219	107652316	8	3	50256
RPL36AL	14	50085237	50087403	7	2	49136
CCNK	14	99947506	100001381	47	9	44805
ZCCHC3	20	277737	280965	5	2	44653
IMPDH2	3	49061758	49066841	2	1	50543
C1orf122	1	38272651	38275126	1	1	48583
TLR3	4	186990306	187009223	45	10	51131
MAD2L2	1	11734537	11751707	53	9	42878
SERTAD4	1	210406144	210419976	10	4	46974
CACYBP	1	174968300	174980851	15	4	49205
IGHMBP2	11	68671310	68708070	92	9	50088
RGP1	9	35749203	35758572	15	5	48308
STX8	17	9153788	9479908	765	87	47020
FLJ00273	9	35042390	35042824	1	1	54445
ZDHHC7	16	85007787	85045141	177	17	50399
MGAT1	5	180217541	180242652	111	4	43879
KCNS3	2	18059114	18542882	1656	110	50228
SUZ12	17	30264037	30328064	124	4	51714
C15ORF37	15	80215507	80217194	12	4	52802
ABCG4	11	119019722	119033360	21	4	47958

RP11-113D	11	18230685	18236109	7	3	41004
FUT2	19	49199228	49209207	32	4	47526
OR4C12	11	50003009	50004071	2	1	46292
ZNF683	1	26688125	26701013	42	7	48930
POMGNT2	3	43120724	43147568	45	9	49633
LAMP3	3	182840001	182881627	156	17	50132
MILR1	17	62461569	62464760	1	1	45519
ZNF621	3	40566369	40616176	59	6	46720
MYOZ3	5	150040436	150058927	39	2	46804
BCL2	18	60790579	60987361	410	65	45394
ST3GAL2	16	70413338	70473140	47	14	43978
LRBA	4	151185594	151936879	1128	32	45786
CDK1	10	62538089	62554610	50	6	51747
ANKFN1	17	54188319	54589020	759	42	48317
RP11-500M	12	4714110	4771809	205	18	49857
EPG5	18	43427574	43547240	245	22	48975
SEH1L	18	12947132	12987535	102	14	48468
CHL1	3	238279	451090	736	61	49224
AC010536.	16	87727144	87729753	10	2	48615
SOX5	12	23682440	24103966	919	96	50324
FNDC9	5	156768608	156772729	15	4	49264
ERI2	16	20791515	20911671	149	14	49049
CARD17	11	104963196	104972158	22	4	50484
LINC01118	2	47043807	47049796	17	4	51386
CDK7	5	68530668	68573250	95	9	50425
ACVR2B	3	38495342	38534633	70	5	49399
DNAJC11	1	6694228	6761984	125	14	48024
RPL14	3	40498783	40503861	8	2	44520
PRTN3	19	840963	848175	15	4	37146
UCK2	1	165796768	165880855	135	20	48379
AIMP2	7	6048876	6063465	69	14	50096
C1QTNF9	13	24881304	24896673	63	11	50214
ANKRD24	19	4183351	4224811	93	12	43135
PROM2	2	95940201	95957056	13	4	46190
OR4C46	11	51515282	51516211	8	2	40152
RIMBP2	12	130880682	131200826	1190	125	48092
CCDC87	11	66357640	66360554	2	1	47122
DUOX1	15	45422131	45457774	64	8	49046
TGIF2-C20c	20	35202956	35240787	25	9	46188
MZT1	13	73282495	73301825	22	5	51999
EIF2S1	14	67826714	67853233	57	9	43232
TMTC4	13	101256181	101327347	190	13	51295
RNF40	16	30773066	30787628	11	4	43751
BAI3	6	69345259	70099403	1961	69	50396
UQCRC2	16	21963981	21994981	20	5	47569
SOD2	6	160090089	160183561	227	20	50027
CIR1	2	175212750	175260443	79	10	50577
MCM3AP	21	47655047	47706211	120	14	51658
DNAJC9	10	74943120	75008620	111	2	50526
IFI30	19	18283972	18288927	11	2	48272
CAPN1	11	64948037	64979477	55	9	47802

DLL3	19	39989535	39999121	25	3	50018
PLG	6	161123270	161174347	113	11	49740
SLCO1B1	12	21284136	21392180	367	21	50154
SLC9C1	3	111859734	112013105	591	14	53540
COL20A1	20	61924538	61966203	109	9	44491
GAP43	3	115342171	115440337	227	44	47686
TTC3	21	38445526	38575413	311	10	52441
MBOAT1	6	20100935	20212670	343	52	48566
HDAC10	22	50683612	50689834	14	4	40056
GCN1L1	12	120565007	120632513	83	7	46640
RRP9	3	51967446	51975957	4	2	35642
CPA3	3	148583043	148614983	80	11	49188
IGSF9B	11	133778459	133826880	125	21	50197
RP11-77K1	16	75562430	75579326	60	5	47655
FLJ45079	17	75875109	75878659	6	2	49288
MSLNL	16	819428	833370	26	4	34742
USP43	17	9548015	9633008	190	22	45654
ITGAL	16	30483979	30534506	75	16	43728
REEP5	5	112212084	112258236	145	12	46520
SH2B2	7	101928405	101962178	66	15	48348
CDK9	9	130547958	130553066	8	2	42585
CCT5	5	10250033	10266524	70	4	46364
ZC3HC1	7	129658126	129691291	90	7	44696
CCL24	7	75440983	75452674	59	12	48349
PYCR2	1	226107578	226111978	8	4	47177
FAM150B	2	279558	288851	16	4	52971
KRT85	12	52753790	52761265	22	8	48912
ZBTB17	1	16268364	16302627	47	10	52204
TRIM67	1	231297858	231357302	167	26	46940
PIGQ	16	616995	634136	43	3	49868
TESC	12	117476728	117537284	157	14	50209
IFRD2	3	50325163	50330349	3	2	43423
SEMA3G	3	52467069	52479101	13	6	43908
CECR6	22	17597189	17602257	19	5	48180
ELP6	3	47537130	47555251	18	5	43696
GALNT11	7	151722759	151819425	90	3	40952
SKA2	17	57187312	57232630	41	7	47171
AC021860.	4	38628029	38666430	88	14	52075
SOX8	16	1031808	1036979	21	5	45294
ANKRD18A	9	38540566	38577204	6	2	30416
RPL18A	19	17970685	17974962	4	1	45362
PCNXL2	1	233119181	233431459	981	62	48330
PACSIN3	11	47199076	47207994	17	5	48258
CMTM8	3	32280171	32411817	418	65	47751
FAM160A2	11	6232565	6255941	43	6	47453
OR6M1	11	123676043	123677095	4	2	50289
TSEN54	17	73512141	73520820	46	6	45759
METTL17	14	21457929	21465189	14	4	45223
RASL12	15	65345679	65369028	31	5	47626
IL12B	5	158741791	158757895	34	6	52580
ABTB1	3	127391778	127399768	9	3	48748

CRIP3	6	43267448	43276535	10	3	49046
SSX2IP	1	85109390	85156486	114	13	50600
HIST1H4A	6	26021907	26022278	1	1	55273
C16orf74	16	85723690	85784735	183	13	48309
RASGRP4	19	38899695	38916945	45	9	48112
SH3GL1	19	4360367	4400544	56	8	48068
TMEM131	2	98372799	98612388	449	18	47350
TAF5	10	105127724	105148822	19	4	50668
SETBP1	18	42260138	42648475	667	74	50224
C19orf71	19	3539152	3544028	8	3	38925
CEP170	1	243287730	243418650	132	12	46854
CMC2	16	81009698	81053875	199	7	49660
AC092384.	16	88894366	88894545	2	1	45122
CAB39L	13	49882786	50018262	321	27	50460
GLIS3	9	3824127	4348392	1958	161	49389
CD86	3	121774213	121839983	117	21	49339
NPC2	14	74942895	74960880	39	5	51182
ERN2	16	23701647	23724821	41	11	44097
TMEM240	1	1470554	1475833	5	1	39921
CFHR5	1	196946667	196978804	50	8	46179
DCAF17	2	172290727	172341562	147	10	53295
LRRC66	4	52859868	52883786	20	5	42464
AVL9	7	32535038	33078516	1399	34	51493
C1orf204	1	159804264	159825137	44	10	45257
HIST1H1B	6	27834570	27835359	4	2	50381
ANO1	11	69924408	70035634	421	53	49663
TMEM202	15	72690614	72700370	13	2	45787
OR7E24	19	9361606	9362820	5	2	38261
PEX13	2	61244360	61279125	48	10	49991
RASD2	22	35936915	35950048	33	7	48080
CFH	1	196621008	196716634	192	13	51362
DDX19B	16	70323566	70369186	22	8	42449
HAX1	1	154244987	154248351	2	1	51638
PPP2R5A	1	212458879	212535200	148	17	49941
PPRC1	10	103892787	103910082	17	7	43550
ARGFX	3	121289551	121305481	61	6	52933
RP11-986E	14	95058395	95090983	138	20	50149
PLEKHB2	2	131862420	132111282	179	7	46023
LCMT1	16	25123050	25189552	101	6	52185
FCAR	19	55385704	55401838	100	15	43295
NDUFB8	10	102267203	102289757	30	2	52615
HIST1H2AH	6	27114861	27115317	1	1	55273
TNFRSF9	1	7979907	8000926	16	4	50013
ZNF410	14	74353320	74399214	158	14	48461
IFFO1	12	6647541	6665239	42	5	48176
CNTN6	3	1134260	1445901	1291	98	49786
CTC-487M2	5	112196885	112228776	103	9	46239
PCDHB2	5	140474227	140476962	4	1	45229
KLF16	19	1852399	1863567	17	2	39242
CLEC4E	12	8685901	8693559	11	2	51127
FKBP10	17	39968932	39979465	18	4	49549

FAM71C	12	100041531	100043824	6	2	53477
EXD1	15	41474923	41522941	180	10	48830
CACNA1A	19	13317256	13734804	1259	132	45991
SHPK	17	3468738	3539543	209	31	48606
TMEM140	7	134832824	134850967	41	3	54177
SRRD	22	26879843	26890624	24	7	44686
FAM53A	4	1619642	1686029	195	12	49111
UPK1A	19	36157715	36169367	37	7	51304
YWHAG	7	75956116	75988348	60	9	47950
AASS	7	121715701	121784334	116	15	50163
NAPSA	19	50861734	50869087	8	1	46430
NFKBID	19	36378555	36393205	10	1	44899
ITSN1	21	35014706	35272165	403	54	49095
PRRX2	9	132427920	132484875	191	24	47894
PMEPA1	20	56223448	56286592	165	24	43435
PHF23	17	7138347	7143041	4	2	48809
TTLL12	22	43562628	43583139	86	15	48240
KBTBD12	3	127634075	127706514	143	16	50988
ZNF43	19	21987752	22034927	99	12	50476
RP11-872D	11	57154838	57191532	55	9	49389
CDH7	18	63417488	63548638	371	18	49478
CTC-236F1	5	55753622	55777773	104	18	47312
LAP3	4	17578815	17609595	67	4	50032
KIAA1919	6	111580551	111592370	25	7	46469
ZNRD1	6	30026676	30032686	38	6	46847
IFITM3	11	319669	327537	22	5	39233
ATP10D	4	47487305	47595503	352	33	52136
C7	5	40909354	40983041	278	23	51735
RP11-293M	14	75705319	75735986	49	9	45726
ZNF547	19	57874845	57890933	33	7	48243
ACSL3	2	223725652	223809357	214	17	52539
SHD	19	4278598	4290721	22	3	42284
TMEM201	1	9648932	9674935	27	3	45652
RTFDC1	20	55043647	55093943	86	6	50994
ZCCHC10	5	132332677	132362296	65	3	50455
KLHL38	8	124657767	124665190	49	9	50074
SLC26A1	4	972861	987228	32	9	46356
OR6B3	2	240984494	240985489	2	1	49234
TRPA1	8	72932152	72987852	213	18	53577
FAM122A	9	71394964	71398609	8	3	41153
TSSK6	19	19623227	19626838	5	2	48538
TMEM57	1	25757388	25826700	66	2	48066
PCOLCE2	3	142534764	142608045	189	29	50388
KLK12	19	51532348	51538486	8	2	48297
EPB41L3	18	5392383	5630699	607	54	46929
SLC35F2	11	107661717	107799019	451	28	50068
OXLD1	17	79632066	79633665	2	1	42805
C3orf14	3	62304648	62321888	11	6	40749
RECQL5	17	73622925	73663269	36	4	49572
PAGR1	16	29827832	29831438	3	1	55623
PSMC3	11	47440320	47447993	13	4	48848

COMMD7	20	31290493	31331803	121	9	51721
PTMS	12	6874682	6880116	7	2	48021
BCAS2	1	115110178	115124260	21	6	50318
LLPH	12	66516842	66524548	12	2	45603
DHX9	1	182808504	182856886	54	6	48085
USP5	12	6961292	6975796	9	3	39775
ADH6	4	100123795	100140694	31	7	50553
IFNAR1	21	34696734	34732168	64	11	49826
CNOT7	8	17086737	17104387	40	8	48545
ATAD2	8	124332090	124428590	80	22	46522
CHAMP1	13	115079988	115092796	22	3	47684
TANGO2	22	20004537	20053449	157	22	48433
GARNL3	9	129986544	130155939	240	22	50274
AC097381.	4	7940728	7942022	8	1	53859
NAP1L1	12	76438670	76478813	49	5	47823
OR2M7	1	248486894	248487899	7	2	51801
MSC	8	72753784	72756703	7	3	50280
KRTAP20-1	21	31988750	31989003	1	1	45953
C11orf71	11	114262165	114271139	23	5	53147
DDX1	2	15731302	15771235	108	10	49701
HOXD13	2	176957619	176960666	4	2	48982
CTDP1	18	77439801	77514510	271	16	51618
KIF17	1	20990507	21044510	185	37	47917
ACTRT2	1	2938046	2939465	3	1	46348
AKAP6	14	32798479	33300567	1375	122	48598
RALGAPB	20	37101459	37207504	142	13	43168
MBD5	2	148778580	149275805	847	37	50328
TSPAN4	11	842808	867116	41	10	45587
FUT11	10	75532049	75540009	9	2	48111
BPNT1	1	220230824	220263804	60	14	49170
TNNC2	20	44451853	44462384	24	5	48727
C17orf102	17	32901142	32906388	15	5	49024
HSPA1A	6	31783291	31785723	3	2	45173
ATG9B	7	150709297	150721586	21	9	48626
CTCF	16	67596310	67673086	80	11	46119
FAM73A	1	78245309	78344106	145	23	44658
FAM193B	5	176946789	176981542	27	5	39750
ATP6V1E2	2	46717889	46769696	143	18	48913
PCDH12	5	141323150	141349304	45	9	48207
RP11-1085	14	57115683	57197253	226	26	45738
PUS7	7	105080108	105162714	234	25	49375
PCDH8	13	53418109	53422775	7	2	49084
NBEA	13	35516424	36247159	1671	54	49863
YIPF3	6	43479565	43484728	10	3	45909
OSGIN1	16	83981887	83999937	102	12	44505
TFG	3	100428205	100467810	60	6	51795
C6orf52	6	10671651	10695030	5	3	37830
CSTF2T	10	53455247	53459355	10	2	48011
AL160286.:	1	179443716	179457805	107	8	54577
ARIH2	3	48956254	49023815	51	7	47600
ARFIP1	4	153701089	153839615	253	14	48809

GPR156	3	119883492	120003941	330	22	48308
MCTP1	5	94039446	94620279	1273	96	49709
F13A1	6	6144318	6321246	544	80	49089
HIST1H1C	6	26055968	26056699	2	1	51540
BBC3	19	47724081	47736023	6	3	37452
OC90	8	133036467	133071627	124	13	50984
BCL9L	11	118764584	118796317	38	12	41897
PAX9	14	37126773	37148920	66	12	47605
ALKBH5	17	18086392	18113268	60	7	50978
DMRT1	9	841690	969090	569	48	46766
ATP8A1	4	42410390	42659122	710	32	51635
KCTD2	17	73028670	73061984	101	14	42820
CDRT4	17	15339332	15406922	178	23	45453
SUCLG2	3	67410884	67705038	964	56	50564
HSD17B4	5	118788138	118972894	457	26	51479
TIAM1	21	32490734	32932290	1023	76	48537
KCNH8	3	19189946	19577138	359	38	47471
NLRP7	19	55434877	55477680	129	21	46290
TAOK1	17	27717482	27878922	229	14	50118
PMPCB	7	102937869	102969958	36	10	47175
BRD3	9	136895427	136933657	105	12	49916
AHCY	20	32868074	32899608	28	2	47773
WFDC9	20	44236578	44259907	70	7	52231
MVP	16	29831715	29859355	30	2	49155
UQCRC1	3	48636435	48648409	8	3	41535
RMI2	16	11343476	11445619	395	20	50727
SGK2	20	42187608	42216877	72	16	46404
SLC4A10	2	162280843	162841792	982	22	49824
DEFB1	8	6728097	6735544	77	6	51913
GPR146	7	1084212	1098897	88	10	52102
DYDC2	10	82104501	82127829	74	9	48505
THAP5	7	108194987	108210194	32	5	50431
KIR2DL4	19	55236002	55325972	10	4	37187
SH3RF1	4	170015407	170192256	363	24	49999
CC2D1B	1	52811395	52831865	18	5	43746
ZKSCAN5	7	99102274	99132323	31	6	45232
ZNF669	1	247263264	247267674	10	2	50882
CAPN10	2	241526133	241557122	142	15	51356
CDH3	16	68670092	68756519	205	15	51420
AL359091.1	9	131062367	131064212	4	1	46000
OR2G2	1	247751662	247752615	6	4	47594
AC005082.1	7	23210760	23234503	59	5	50876
TMF1	3	69068978	69101484	58	8	51652
MAL2	8	120177273	120257913	231	28	49560
CCDC19	1	159842154	159869953	64	9	47428
RANBP9	6	13621730	13711796	108	16	50263
ZNF574	19	42572629	42585701	3	2	48026
GLT6D1	9	138515502	138531386	66	10	52651
ANXA10	4	169013666	169108841	201	21	47345
AL035406.1	1	6100630	6101399	4	2	43486
INMT-FAM	7	30791753	30931696	473	33	49572

DNAJC14	12	56214744	56224608	14	7	42915
PARD3	10	34398488	35104253	1433	57	49499
COTL1	16	84599200	84651683	235	33	46227
PMS1	2	190649107	190742355	162	15	49679
YBEY	21	47706251	47717665	61	7	51493
TCF3	19	1609291	1652604	50	9	36972
SPDYC	11	64937625	64940715	4	2	44955
C7orf49	7	134777115	134855547	171	10	53400
ARHGEF12	11	120207787	120360645	229	13	50359
DENND2A	7	140218220	140373793	257	17	48664
QDPR	4	17461884	17513857	205	24	52225
AKNA	9	117096436	117156685	98	15	48181
AC112715.	2	238165734	238166319	1	1	55857
SFTPA1	10	81370695	81375196	18	5	41594
FAM65A	16	67552321	67580691	30	6	46513
DNAJB7	22	41255553	41258130	3	2	38257
AHR	7	17338246	17385776	39	9	48538
HSPB11	1	54382247	54411602	55	5	47800
IMP4	2	131099798	131105383	7	3	44786
GIP	17	47035916	47045958	30	5	49814
MIS18A	21	33640530	33651380	10	3	50616
AC106876.	2	233877324	233880595	4	2	45479
ACSS3	12	81331594	81650533	890	31	49362
POMT1	9	134378289	134399193	75	4	45541
DMRT3	9	976964	991731	41	6	48707
CD84	1	160510885	160549306	96	11	44120
PPIL3	2	201735630	201754026	27	7	45536
IFT52	20	42219571	42275936	118	8	50295
HIST1H2AC	6	26124373	26139344	45	9	48185
CTDSPL2	15	44719432	44821236	134	7	43455
B9D1	17	19240867	19281495	31	5	42985
NMNAT2	1	183217372	183387737	376	24	50294
RAC2	22	37621301	37640488	56	10	45513
PLEKHG4B	5	140373	190085	163	12	48551
ETFDH	4	159593277	159630775	27	9	46427
GREB1L	18	18822203	19105378	204	12	44432
ABCG5	2	44039611	44066004	86	13	47997
GCA	2	163175350	163228105	9	4	43068
CDHR2	5	175969512	176022975	162	16	47755
BCAM	19	45312328	45324673	36	6	41162
ACTR1B	2	98272431	98280570	13	3	46660
NWD1	19	16830787	16928774	188	21	43018
COPS8	2	237993955	238009109	16	4	48514
APPL1	3	57261765	57307496	63	9	45922
CDC42BPG	11	64590859	64612041	29	3	42401
TUB	11	8040791	8127659	251	40	48004
HPSE	4	84213614	84256306	105	9	48299
ABHD3	18	19230858	19284766	65	6	48239
H2AFV	7	44866390	44887682	46	7	43256
RGS14	5	176784838	176799602	16	4	47859
AP1AR	4	113152893	113191203	39	8	50559

STAT2	12	56735381	56753939	20	2	51462
AL079342..	6	89674246	89676685	7	3	45323
RHBDL1	16	725666	728268	1	1	51731
TOM1L1	17	52976748	53039310	162	13	51931
CMA1	14	24974559	24977471	9	3	47736
FAM198B	4	159045626	159094470	107	7	45855
KIT	4	55524085	55606881	160	21	49160
LRP3	19	33668509	33698694	84	13	46344
ARHGAP20	11	110447766	110583912	287	17	51293
TTC6	14	38065052	38510647	859	49	49736
RELN	7	103112231	103629963	1778	90	51142
CXCL14	5	134906373	134914969	11	3	49549
FPR1	19	52248425	52307363	222	37	50668
SPAG7	17	4862521	4871167	16	6	49594
PRSS33	16	2833954	2837949	1	1	35112
OR11H6	14	20691791	20692964	8	2	52428
SLC22A15	1	116519119	116612675	197	21	48961
KIN	10	7792925	7829990	111	16	50518
UBA5	3	132373290	132396941	17	5	45116
LRRTM1	2	80515483	80531874	24	6	44941
CSDE1	1	115259534	115301297	65	8	50692
AC018816..	3	4855978	4928977	217	21	49468
DAGLB	7	6448757	6523821	256	26	45573
RABL6	9	139702374	139735639	30	3	46858
VSNL1	2	17720393	17838285	382	15	49179
RNASE13	14	21500979	21502944	7	3	44402
SLCO4A1	20	61273797	61317137	115	23	45403
UQCRCQ	5	132202252	132203723	3	1	43788
SUPV3L1	10	70939988	70968855	58	7	50131
NME3	16	1820287	1821731	1	1	50605
KANK2	19	11274943	11308467	109	10	50332
SLC45A4	8	142217265	142318404	326	36	50329
CAMLG	5	134074191	134087847	8	2	51892
PPP1R14D	15	41107650	41120907	15	4	49131
VEZT	12	95611522	95696566	252	20	51779
SGIP1	1	66999066	67213982	686	24	52705
CXCL16	17	4636821	4643217	25	4	46661
ANAPC11	17	79848666	79858867	1	1	33078
INSL4	9	5231419	5235304	6	2	44774
HLCS	21	38123189	38362536	671	34	49730
SUPT6H	17	26989109	27029697	26	5	49269
SFMBT1	3	52937588	53080766	265	14	51965
PRIMPOL	4	185570767	185616117	148	6	51166
HSPA9	5	137890571	137911133	32	6	48152
PXN	12	120648250	120703574	62	7	46538
VPS26B	11	134094539	134117686	29	7	50217
NT5C3A	7	33053742	33102409	156	10	50529
VWF	12	6058040	6233936	566	53	49378
HNRNPC	14	21677295	21737653	87	7	52302
PXMP4	20	32294512	32308125	27	5	50950
SCARB2	4	77079890	77135046	163	13	50116

RHOBTB1	10	62629196	62761198	239	26	49237
PPIL6	6	109711418	109762374	99	8	49671
PHB2	12	7074490	7079988	5	2	46728
WDR49	3	167196472	167371771	241	29	49206
TAF1C	16	84211458	84220669	47	10	48055
BMPR1B	4	95679119	96079599	1129	46	49951
KIAA2013	1	11979648	11986485	19	5	51557
MARCH3	5	126203406	126366500	356	7	35766
PTDSS2	11	448268	491393	91	10	44339
OR6T1	11	123813492	123814580	4	1	48627
KCNJ6	21	38979678	39288749	858	61	49153
CHAC2	2	53994929	54002333	18	6	46484
PRELID1	5	176730775	176733960	9	4	42898
MDGA1	6	37600284	37667082	280	33	47632
ZNF766	19	52772824	52795977	125	15	48281
MCAT	22	43528212	43539400	19	4	47102
CCDC163P	1	45959538	45965751	8	2	51073
C4orf51	4	146601356	146692184	215	31	51108
ICA1	7	8152814	8302317	507	56	46098
TADA3	3	9821544	9834695	26	5	49653
CSF1	1	110452864	110473614	37	9	47334
MARCH2	19	8478154	8503901	52	11	47171
MICB	6	31462658	31478901	169	17	51173
RGS9BP	19	33166313	33169206	14	4	48201
ATP4B	13	114303119	114312501	16	6	43795
ZFP28	19	57050317	57068169	44	10	48620
RCOR1	14	103058998	103196913	313	14	46889
MOB1A	2	74379655	74406025	46	4	51936
ADAM11	17	42836399	42859214	48	6	51366
B3GNT6	11	76745385	76753096	24	5	44708
DKK2	4	107842959	108204963	770	72	50823
MARCKS	6	114178541	114184648	9	4	49765
IL1RL1	2	102927962	102968497	142	13	52297
EXD3	9	140201348	140317714	15	3	31971
EMCN	4	101316498	101801283	1544	46	50874
IRF3	19	50162826	50169132	11	2	43100
PTPRA	20	2844830	3019722	226	18	47939
PFKFB2	1	207222801	207254369	34	6	48625
NCAPH2	22	50946645	50961901	49	11	39700
MTIF2	2	55463731	55496483	79	11	50073
DCTN2	12	57923885	57941114	23	3	47796
SLC43A1	11	57252007	57283259	46	8	49612
ABHD2	15	89630690	89745591	214	27	49528
CDYL	6	4706393	4955785	533	46	49427
NEDD8-MC	14	24683161	24701558	15	4	47443
DCLRE1B	1	114447763	114456708	12	4	47308
C19orf10	19	4641386	4670382	99	10	43556
FAM19A5	22	48885272	49246724	1881	133	48853
IKBKE	1	206643791	206670223	75	17	42349
AGPAT3	21	45285067	45406417	248	28	49028
GRAMD2	15	72452148	72490126	40	6	47255

HLA-DMB	6	32902406	32908847	38	5	47848
DDX20	1	112297867	112310638	42	6	48970
DNAJB6	7	157128075	157210133	231	21	48580
LRMP	12	25173936	25261268	312	41	51148
SLU7	5	159828648	159848718	48	7	51083
RQCD1	2	219433303	219461803	43	3	49433
FAM109B	22	42470255	42475445	10	2	47613
C22orf15	22	24105208	24108048	5	2	50142
LRWD1	7	102105376	102113615	41	7	47759
HELB	12	66696325	66737423	71	5	49361
FAM89A	1	231154704	231175992	104	20	49307
ZRANB3	2	135894486	136288806	497	10	44092
MRPS16	10	75006510	75012451	11	1	51627
C16orf54	16	29753784	29757327	3	1	45147
C9orf43	9	116172334	116191964	44	4	53283
THUMPD1	16	20744986	20753406	19	4	47298
MRGPRX2	11	19076002	19082228	41	7	49028
CD209	19	7804879	7812464	24	6	42934
SPRR1B	1	153003678	153005376	11	1	55196
PPP3CC	8	22298332	22398652	150	9	49691
CTD-2600C	16	57832098	57850850	29	9	40860
TTF1	9	135251008	135282209	55	7	50003
FCN3	1	27695603	27701315	6	3	35407
HOXB2	17	46618256	46623441	13	4	49146
GABPB2	1	151043054	151098018	108	14	46615
ACSL5	10	114133776	114188138	87	10	51093
RAB1A	2	65297835	65357240	158	15	50706
TCHP	12	110338069	110421646	154	14	47501
CLRN2	4	17516788	17528727	30	6	52013
ZNF136	19	12273879	12300064	32	6	47233
RCN2	15	77223960	77242601	19	7	48052
TNKS2	10	93558069	93625033	147	13	51970
SNX2	5	122110691	122165803	186	18	51390
PDCD10	3	167401086	167452727	58	2	49892
KCTD18	2	201353675	201384507	66	16	49507
C6orf123	6	168185217	168197539	44	8	37528
TRNP1	1	27320198	27327389	5	2	47624
FLJ00104	16	87731749	87739290	33	6	49928
CCDC105	19	15121556	15134081	71	14	46688
PAMR1	11	35453370	35551848	338	36	49267
MFSD11	17	74731947	74777531	23	8	44229
CTC-554D6	5	112162910	112203279	106	13	45372
RNF145	5	158584417	158637061	100	17	51281
DDX59	1	200593024	200639097	121	15	48219
MFAP5	12	8789942	8815484	63	4	43705
HIST1H2AB	6	26033320	26033796	2	1	51423
ID3	1	23884409	23886285	8	3	47687
MYH7B	20	33563206	33590240	59	7	51304
ATE1	10	123499939	123688316	551	30	49687
GABRA6	5	160974069	161129599	298	20	51032
ESF1	20	13694969	13765532	179	19	51320

TRPC3	4	122800182	122872909	117	16	46775
TRIM15	6	30130993	30140473	47	9	42350
TAF6L	11	62538775	62554814	26	5	43468
TBCC	6	42712219	42714558	2	1	38248
PIWIL1	12	130822432	130857182	92	15	48190
CCDC85C	14	99977603	100070363	274	19	46783
LAMTOR4	7	99746530	99753567	8	2	47856
AC005606.	16	2031633	2032918	10	3	45467
ARAP1	11	72396114	72504644	247	22	50957
JOSD1	22	39081548	39097561	19	5	44901
PARVG	22	44568836	44615413	195	26	50307
CCER2	19	39399620	39402798	5	2	48216
KRTAP19-4	21	31869142	31869451	1	1	55857
ABCB11	2	169779448	169887832	304	22	47048
PEG10	7	94285637	94299007	12	4	51253
CALB1	8	91070836	91107703	56	8	47511
ZNF720	16	31724550	31806190	114	6	50231
AHSA1	14	77924213	77935817	50	7	50318
SLC25A24	1	108676658	108743471	175	17	51036
CDCA2	8	25316513	25365436	104	6	51366
ZBTB20	3	114056941	114866118	1268	81	45050
MYL12A	18	3247479	3256234	36	4	50887
MUS81	11	65624597	65635124	21	3	45474
EIF2B1	12	124104953	124118313	35	6	46510
RFX6	6	117198375	117253326	149	12	53673
FNDC4	2	27714750	27718112	4	1	48571
HDCC3	15	91474148	91475799	3	1	53238
ZSWIM6	5	60628100	60841997	281	18	49958
ARNTL2	12	27485787	27576241	252	30	50398
ZNF346	5	176449697	176508190	169	12	39781
VAC14	16	70721342	70835064	193	24	47010
KLK10	19	51515995	51523431	42	4	51100
SLC5A12	11	26688566	26744974	174	30	49870
QARS	3	49133365	49142553	8	2	46773
ZDHHC16	10	99205927	99217127	11	3	51404
ITSN2	2	24425733	24583583	291	15	42240
UNC5B	10	72972327	73062621	270	30	49000
NEU1	6	31825436	31830683	5	2	46983
RGS13	1	192605275	192629390	67	6	45154
DPP9	19	4675236	4724685	81	15	44472
NDUFB8	10	102265385	102289638	34	2	52783
DAGLA	11	61447905	61514473	109	13	49154
HPCA	1	33351595	33364042	14	4	47058
C17orf49	17	6917814	6920844	6	2	48412
SDHB	1	17345217	17380665	109	10	49876
UGT3A2	5	36035119	36071460	114	15	49303
ZNF195	11	3360491	3400448	133	9	51779
CIDEB	14	24774302	24780636	13	3	45693
OR52N4	11	5775923	5776959	6	2	47447
C20orf195	20	62184373	62188061	6	2	37066
NKX3-1	8	23536206	23540440	6	2	46730

RUNDC3A	17	42385781	42396039	10	3	46900
CLPP	19	6361463	6368919	23	3	46151
FAM32A	19	16296191	16302857	14	4	48210
NPEPPS	17	45600308	45700642	96	14	47490
TSPAN1	1	46640745	46651630	10	3	52985
CLASP2	3	33537737	33759848	288	20	48385
CHD2	15	93426526	93571237	340	23	49951
U2AF1	21	44513066	44527697	20	3	52658
ZNF839	14	102783714	102809044	55	12	44838
GJA5	1	147228332	147245484	41	6	50576
OR13F1	9	107266455	107267547	8	2	46592
HHLA1	8	133073733	133123406	159	27	49202
ARFGAP3	22	43192508	43254112	176	11	49247
EIF2AK4	15	40226347	40327797	280	22	48811
ZFP30	19	38104650	38183238	145	16	51417
ABHD17A	19	1876809	1885546	12	2	46795
SERPINB10	18	61564408	61603345	148	5	50632
RERG	12	15260717	15501609	397	25	50869
ALOX15	17	4534197	4545589	25	6	39726
PID1	2	229715242	230136001	1193	96	50629
KHK	2	27309615	27323640	14	2	45616
ZDHHC6	10	114190058	114206672	22	5	51719
SPHK2	19	49122548	49133974	9	3	43607
SPSB3	16	1826713	1843701	47	7	47495
MT1F	16	56691606	56694610	6	3	45961
TMEM86B	19	55738007	55741647	12	3	46526
KRTAP19-2	21	31859362	31859755	1	1	55857
MISP	19	751126	764319	12	6	33912
CLCN2	3	184063973	184079439	37	11	45690
FOXQ1	6	1312675	1314992	7	3	45668
CLCNKB	1	16370272	16383803	98	12	48397
PTPN21	14	88932122	89021077	170	9	50954
SALL4	20	50400581	50419059	73	14	51659
FAM151B	5	79783788	79838382	107	17	49926
SAMM50	22	44351301	44406411	174	20	50063
C9orf153	9	88835180	88874572	66	11	49783
DNAJB14	4	100817405	100867883	71	13	48885
HS6ST1	2	128994290	129076151	263	35	47537
ERF	19	42751724	42759309	9	2	49237
CRYBG3	3	97540884	97594132	61	7	50834
PIGX	3	196366646	196462878	314	51	46200
RABEPK	9	127962821	127996437	59	8	51712
BLACE	7	155149680	155160629	68	7	45765
HIPK4	19	40885178	40896094	18	5	47125
KRT38	17	39592698	39597173	28	6	45202
IDUA	4	980785	998316	66	14	45540
SMC2	9	106856541	106903698	67	6	48639
ACY3	11	67410026	67418130	24	3	45424
ATP13A1	19	19756007	19774502	43	9	46924
EIF2B3	1	45316450	45452282	303	10	52577
HTR4	5	147830595	148056798	452	32	47389

MBNL1	3	151961617	152183569	303	21	51644
COL28A1	7	7395834	7575484	529	20	50476
TCTE1	6	44246480	44265458	72	9	46737
CLVS1	8	61969717	62414204	1048	52	47126
MTERFD2	2	242011584	242041747	66	8	49751
VAX2	2	71127720	71160576	96	18	48784
KBTBD4	11	47593749	47600567	2	1	42715
SGPP2	2	223289236	223425667	309	40	47223
MOAP1	14	93648541	93651273	6	3	50029
DARS	2	136664247	136743670	67	4	50806
DYRK1B	19	40315990	40324841	15	5	48495
FAM160B1	10	116581503	116659591	199	13	51236
MAPRE2	18	32556892	32723434	319	28	49080
CTD-2369P	19	10416103	10426685	34	8	50937
FDX1L	19	10416103	10426691	34	8	50937
PRR23A	3	138722804	138725110	3	2	45282
MEMO1	2	32090129	32236299	194	11	50466
DHRS9	2	169921299	169952677	24	5	48467
GNL2	1	38032417	38061536	63	11	50035
TMEM184C	4	148538534	148593195	17	9	38746
MTNR1B	11	92702886	92718232	35	6	45659
KHDC1L	6	73933267	73935493	5	2	48440
SPINK13	5	147647743	147665817	9	3	43529
KCNAB3	17	7825177	7833121	15	4	49313
TM4SF19	3	196042953	196065244	64	9	50645
ZNF546	19	40490041	40523514	51	4	41912
FRAT2	10	99092255	99094458	2	1	55953
YPEL5	2	30369807	30383399	24	8	41645
NDUFA12	12	95290831	95397546	521	36	52286
DCUN1D4	4	52709166	52783003	60	3	45884
RAB5C	17	40276994	40307035	51	4	47621
CHAD	17	48541857	48546327	7	3	47851
KIAA1143	3	44779153	44803154	23	7	48266
GTSCR1	18	68297755	68317980	56	8	49092
RHEBL1	12	49458468	49463808	5	1	50832
TRIM54	2	27505260	27530307	31	6	46817
AC138393.	1	224215760	224216371	1	1	46469
SLC43A3	11	57174427	57195053	35	9	49568
FXR1	3	180585929	180700541	170	12	50086
PRRX1	1	170631869	170708560	118	19	50490
OTUD7A	15	31775329	32162992	852	32	48735
HRAS	11	532242	537287	22	5	47803
ZMYM1	1	35525387	35581460	43	4	38564
IPMK	10	59951278	60027694	261	7	49870
PAGR1	16	29827285	29841948	18	2	48492
TEX261	2	71213068	71222075	30	6	45206
ZDHHC20	13	21950263	22033509	181	14	51968
DPY30	2	32092878	32264881	228	12	50667
KRTAP19-5	21	31873975	31874435	2	1	31175
ABCC3	17	48712138	48769613	115	27	47887
GGT1	22	24979718	25024972	47	3	47885

ATP8B2	1	154298029	154323783	50	8	50026
UBR5	8	103265240	103425069	376	25	51411
SHCBP1	16	46614466	46655538	7	3	39924
DNAJC4	11	63997750	64001758	7	3	49953
AIG1	6	143381633	143661441	429	44	46322
WDR34	9	131395940	131419066	32	4	44749
AC002553.	17	15943505	15943994	1	1	48583
DYNLT1	6	159057506	159065771	12	3	51720
KCTD8	4	44175926	44450824	575	43	51590
C9orf147	9	115196096	115249484	156	7	52638
DUSP15	20	30435440	30458550	45	12	48419
SAMD7	3	169629360	169656963	69	11	47546
APP	21	27252861	27543446	670	51	49416
SYT17	16	19179293	19279652	199	28	44417
SLC7A13	8	87226281	87333375	227	20	48913
PDE4D	5	58264865	59817947	3439	141	50790
TNPO1	5	72112139	72212560	149	14	49958
OR2Y1	5	180166042	180167099	2	1	36802
SAP30BP	17	73663196	73704142	40	5	50338
OR4C16	11	55339604	55340536	11	3	51256
PUF60	8	144898514	144912029	19	4	42280
TGFA	2	70674412	70781325	302	31	49476
HOOK3	8	42752075	42885682	201	8	44776
MYB	6	135502453	135540311	51	7	50551
FAM177B	1	222910549	222924147	12	3	41354
AC104809.	2	241858202	241932728	154	16	49529
TNK1	17	7283853	7293093	32	8	46352
FIGNL1	7	50511831	50518088	12	4	53259
YWHAQ	2	9724101	9771143	84	10	49946
SYNCRIP	6	86318053	86353510	46	9	46581
CSTB	21	45192393	45196326	7	3	48107
ALX1	12	85673885	85695562	34	6	48512
CLPX	15	65440557	65477680	21	3	44580
HTR7	10	92500578	92617671	287	17	50598
PTCH2	1	45285516	45308735	43	5	51177
PPM1L	3	160473390	160796695	659	25	50920
TUBGCP6	22	50656118	50683421	53	14	45511
DSG4	18	28956740	28994875	78	7	51402
AC093677.	4	75023327	75024085	1	1	31190
NDUFA4	7	10971578	10979883	23	6	51230
TRIM16	17	15531274	15587625	79	12	43292
HIBADH	7	27565061	27702614	399	18	50749
OR8G5	11	124134723	124135763	9	3	46820
ZNF492	19	22817126	22850472	144	4	50786
ARID1B	6	157099063	157531913	854	61	49143
OGG1	3	9791628	9829903	60	9	49344
CREB5	7	28338940	28865511	1495	137	50084
RP11-886H	18	47322163	47363993	91	13	50965
AIPL1	17	6297013	6338519	172	31	50565
C7orf26	7	6629648	6648357	57	7	49103
VPS37B	12	123349882	123380991	28	4	46171

CENPB	20	3764498	3767337	1	1	44786
BCL9	1	147013182	147098017	199	38	46121
RNASE10	14	20973696	20979328	11	4	39089
LPAR6	13	48963707	49018840	52	9	41698
HOXA2	7	27139721	27142430	4	2	50736
ZNF322	6	26636518	26659980	62	8	50848
GMPR	6	16238811	16295780	119	18	45375
CA14	1	150229554	150237478	6	3	43880
TMPPE	3	33131913	33138293	6	4	43564
NDUFV1	11	67374323	67380006	4	2	50246
TIFA	4	113195698	113207059	31	2	52227
CPNE2	16	57126449	57181878	177	33	47298
AC002472.	22	21400249	21418457	30	7	41361
AARS2	6	44267391	44281063	36	8	43677
ARNT2	15	80696692	80890278	435	52	49092
USP42	7	6144515	6201195	181	20	44617
MYD88	3	38179969	38184513	3	2	52494
PSTPIP2	18	43563502	43652238	206	14	50117
A1BG	19	58856544	58864865	8	1	44031
ADAMTS5	21	28290231	28338832	130	14	50509
ZFP36	19	39897453	39900052	2	1	33965
ATP1A2	1	160085549	160113381	89	18	49106
TRAIP	3	49866034	49894007	33	5	51209
NXT1	20	23331373	23335414	10	4	47048
CPLX3	15	75118888	75124141	7	3	49271
C6orf203	6	107349407	107372546	54	9	45114
KIAA0754	1	39876151	39882154	9	4	48376
CTSC	11	88026760	88070955	140	17	50692
CTD-2132N	17	40271692	40306934	60	5	46946
C3orf72	3	138666076	138672293	17	2	40624
SMC1B	22	45739944	45809500	153	8	49129
E2F8	11	19245610	19263167	31	11	45255
ZRSR1	5	112227313	112228791	5	1	44507
RP11-597K	15	82380935	82390035	29	10	50726
C21orf33	21	45553487	45565605	27	3	45381
SLC16A5	17	73083822	73102257	81	12	48475
VSX2	14	74706175	74729441	65	8	46290
GK5	3	141882414	141944449	123	19	48375
AC026407.	5	157160003	157161727	6	2	53395
KLHDC1	14	50159823	50219870	45	7	46966
PEX1	7	92116334	92157845	53	7	48841
DRAM2	1	111659955	111682838	45	6	50064
LCTL	15	66839517	66858317	46	9	49937
NHLH1	1	160336857	160342638	12	4	49018
MMACHC	1	45965725	45976739	14	4	48806
MMAA	4	146539415	146581187	75	13	50774
AC006455.	7	62809239	62812151	1	1	40544
KIAA0753	17	6481468	6544247	158	13	50387
VIP	6	153071933	153080900	10	3	49666
LINC00692	3	25900024	25915191	19	1	50551
KCNH7	2	163227917	163695240	674	42	47873

GPBAR1	2	219124219	219128582	7	2	44493
PDPN	1	13909960	13944452	91	21	47022
NEK9	14	75548822	75594047	52	3	50219
PRSS45	3	46783582	46854048	72	6	49978
HEPACAM2	7	92817899	92855837	46	10	47020
EFCAB14	1	47124366	47184824	97	5	49919
CEACAM19	19	45165545	45187631	29	8	45989
S100A9	1	153330330	153333503	2	1	42351
TPBGL	11	74951950	74954742	4	1	40313
MICA	6	31371356	31383092	176	22	46557
ENSA	1	150573327	150602088	29	8	45567
FARS2	6	5261277	5771813	1456	127	49133
FGD4	12	32552463	32798984	865	48	51191
SLC5A9	1	48688357	48714316	41	9	49050
MDC1	6	30667584	30685666	89	8	36917
NUCB2	11	17229700	17371521	245	19	52004
MT1X	16	56716336	56718108	8	3	49807
NDNL2	15	29560353	29562033	1	1	36524
ODF1	8	103563800	103573245	46	6	50963
AL355531.1	10	131308884	131309525	4	2	49087
PROKR2	20	5282317	5297378	115	6	54263
AGPS	2	178257372	178408564	246	10	51731
OR5A1	11	59210617	59211667	4	1	49378
SRP19	5	112196919	112205485	32	6	45045
RND2	17	41177258	41184057	8	1	53911
SUV420H1	11	67922330	67981295	82	9	50891
NRN1	6	5998232	6007200	24	4	47536
PEX14	1	10532345	10690815	314	20	49088
TPRA1	3	127291912	127317094	23	9	48465
LRIG1	3	66429221	66551687	235	26	47038
SYCP2	20	58438618	58508710	115	3	44208
HNRNPA3	2	178077291	178088686	11	3	48284
CENPQ	6	49431091	49460820	54	7	51807
AP3S2	15	90373831	90437574	108	8	51453
WFDC5	20	43738093	43743813	14	4	43814
FLJ00325	7	108540389	108540655	1	1	47999
NARS	18	55267888	55289445	65	10	51651
CYFIP2	5	156693089	156822606	390	20	49986
KIF13A	6	17759414	17987854	564	24	52093
ZNF2	2	95831177	95850065	13	3	46497
KIAA0087	7	26572740	26578407	22	5	49133
TBC1D21	15	74165949	74181555	28	5	49471
TMEM200A	6	130686879	130764208	213	18	49102
PPARA	22	46546424	46639653	150	18	47884
SNED1	2	241938255	242034983	233	32	47879
ZNF235	19	44732882	44809199	107	10	48897
VIT	2	36923833	37041935	376	49	47769
PEX11G	19	7541761	7562335	72	9	45945
PVRL2	19	45349432	45392485	143	19	49636
SNX14	6	86215214	86303874	130	18	47493
C21orf88	21	40969074	40984748	39	10	51259

KLHL10	17	39991937	40004636	37	4	51652
SMAGP	12	51638342	51664674	52	6	46268
RBM42	19	36119932	36128588	12	3	45679
BMP6	6	7727030	7881655	472	56	50091
IL24	1	207070788	207077484	10	2	46282
OPN5	6	47749718	47800516	147	11	52573
OVOL2	20	17937623	18039832	338	25	51894
AP000295.1	21	34619079	34655517	71	16	47891
NCOA5	20	44689624	44718591	47	8	49899
CDR2L	17	72983727	73001895	17	5	46050
ZSCAN31	6	28292470	28324048	96	13	48904
ABHD14B	3	52002526	52017425	5	3	37534
ABHD14A	3	52005442	52015212	5	3	37534
OR5R1	11	56184734	56185708	8	3	47604
KIAA0247	14	70078313	70181859	130	17	48215
KCNA10	1	111059839	111061797	5	2	50933
PLCXD2	3	111393523	111565294	565	37	49609
PIK3R1	5	67511548	67597649	210	36	47343
MAFA	8	144501352	144512576	47	10	43847
OR5K4	3	98072698	98073663	1	1	48583
RLBP1	15	89753100	89764982	27	5	51141
SPTBN1	2	54683422	54896812	594	24	51053
RP11-315O	11	102337986	102369532	105	13	51485
IGF2R	6	160390131	160534539	328	38	48869
NADSYN1	11	71164155	71235153	203	12	47544
OPA3	19	46030685	46105470	166	27	45133
ENPP4	6	46097730	46114436	34	4	53484
ZNF865	19	56116771	56128635	22	9	44620
HGFAC	4	3443614	3451211	30	9	47176
STRN	2	37070783	37193615	249	17	48874
MBD1	18	47793252	47808144	25	6	48267
ANKRD35	1	145549230	145568526	34	5	46656
OR56A4	11	6023216	6024424	3	1	51783
IL11	19	55875757	55881831	19	5	40423
RAB13	1	153954127	153958834	2	1	47656
ZC2HC1B	6	144185573	144259483	141	22	50302
AC040977.	17	6915928	6917755	1	1	41430
FAM149B1	10	74927924	75004262	133	2	50586
TM4SF5	17	4675179	4686506	30	7	46167
TSC1	9	135766735	135820020	94	11	50390
NUP210	3	13357737	13461809	298	16	46412
KSR2	12	117890817	118406788	1527	146	49238
CAMK2N2	3	183977001	183979251	4	2	48628
C6orf57	6	71276620	71299272	66	4	53648
C1orf21	1	184356192	184598154	522	30	49194
CCND3	6	41902671	42018095	305	39	49467
AGPAT6	8	41434706	41482520	113	12	53298
GALNTL5	7	151653464	151717019	206	25	49023
C10orf111	10	15137384	15139318	5	2	49970
FAM19A4	3	68780917	68981761	540	21	50887
FMNL3	12	50031724	50101948	76	5	44047

ISCU	12	108956358	108963160	18	4	48576
TMEM236	10	17794251	17842867	1	1	36524
MYRF	11	61520114	61555990	55	11	47196
CHFR	12	133398773	133532890	327	17	50605
MTSS1L	16	70695107	70719969	45	8	48228
SRCAP	16	30709530	30755602	20	4	43377
VAMP8	2	85788685	85809154	62	8	50802
NRIP3	11	9002123	9025596	56	8	50237
BAI2	1	32192718	32230494	35	7	46223
AQP11	11	77300436	77321400	44	5	50330
RPL8	8	146015150	146017972	3	1	44654
GATAD2A	19	19496635	19619740	155	10	50344
VPS13C	15	62144588	62352672	426	20	48858
RP4-734P1	20	2447858	2489553	75	12	47649
PVRL4	1	161040785	161059389	34	9	47851
INSIG2	2	118846028	118868573	47	15	49440
NUP93	16	56764017	56878797	236	28	49819
KCNE3	11	74165886	74178774	33	7	49451
PPP2R3C	14	35554673	35591723	133	16	53145
FLCN	17	17115526	17140502	76	12	49258
MAGI2	7	77646393	79082890	4726	229	50376
CTD-2369P	19	10426147	10431354	15	5	50579
OR9G1	11	56467864	56468781	5	2	46910
GPR160	3	169755717	169803191	84	7	50064
SPDEF	6	34505579	34524110	24	9	44297
SDR39U1	14	24908972	24912111	19	2	44295
SLC25A15	13	41363548	41384247	51	6	49264
SEPHS1	10	13359424	13390297	97	11	49104
MFSD2A	1	40420802	40435638	12	5	44874
KRT1	12	53068520	53074191	14	5	48730
FAM35A	10	88853918	88951225	156	15	50289
KIAA0195	17	73437240	73496171	132	11	45239
FAM185A	7	102389418	102449672	87	14	45498
RAB27B	18	52385091	52562747	481	24	52187
USP37	2	219314974	219433084	160	7	48469
SPATA31E1	9	90497741	90503814	17	4	44563
RNF26	11	119205237	119208023	6	2	46930
ALO49747.:	22	36023040	36031181	18	5	47781
ARL2BP	16	57279010	57287516	12	3	46179
EN2	7	155250824	155257526	28	8	43299
THBS1	15	39873280	39891667	28	4	48873
PRPS1L1	7	18066405	18067486	2	1	46917
DNAJC19	3	180701497	180707562	3	2	48030
ARL3	10	104433488	104474164	63	11	49012
C9orf89	9	95858500	95875565	45	8	48543
TMED8	14	77801364	77843452	95	13	48547
SOCS3	17	76352864	76356158	1	1	32977
FETUB	3	186353758	186370930	41	10	48470
COLEC11	2	3642426	3692048	161	15	48670
CCDC115	2	131095814	131099922	3	1	47758
DSTN	20	17550508	17590564	82	9	44512

DESI2	1	244816237	244872335	85	8	49106
NHP2	5	177576461	177580968	9	3	47449
BTG4	11	111338251	111383079	76	10	48981
RET	10	43572475	43625799	195	21	51699
OR10H5	19	15904761	15905892	12	4	53116
PITPNB	22	28247657	28316122	114	13	45984
ABCB10	1	229652329	229694442	53	5	47232
ALG11	13	52586534	52603800	20	5	49455
TRAF3	14	103243813	103377837	233	17	47973
NELFCD	20	57556263	57570188	29	5	52878
HAUS8	19	17160539	17186435	77	10	52180
HS6ST3	13	96743093	97485671	1495	57	49540
C15orf54	15	39542885	39547046	14	4	47240
C12orf45	12	105380088	105443515	207	16	50635
RAE1	20	55926066	55954267	86	5	48505
AC117834.	8	93895865	93898013	2	1	38894
C1orf50	1	43232940	43263968	42	8	49692
UBALD2	17	74261283	74267375	13	4	42751
RP11-242G	10	71444655	71452208	37	7	50040
S100P	4	6694796	6698897	14	3	41319
GGPS1	1	235490665	235507847	26	4	51994
TMEM5	12	64173583	64203338	38	7	43652
C11orf16	11	8941623	8954553	34	6	48689
ITGB5	3	124480795	124620265	410	27	49907
COL1A2	7	94023873	94060544	81	13	51644
MAP3K7	6	91223292	91296764	165	14	50702
PHYKPL	5	177635498	177659792	99	17	49897
C8orf31	8	144120626	144141359	67	4	49838
ZNF732	4	264464	299110	74	5	48910
FAHD1	16	1876968	1890208	113	3	54815
XIRP1	3	39224701	39234087	13	4	47790
ACBD6	1	180244515	180472089	504	16	50295
ASPHD2	22	26825239	26840981	34	8	49182
POU4F3	5	145718587	145720083	1	1	45380
YIF1B	19	38795753	38807913	32	8	50585
AC002472.	22	21358030	21360736	9	3	50836
SBNO1	12	123773656	123849390	222	12	46449
UBE2L6	11	57319129	57335757	43	8	52212
RARRES3	11	63304281	63313934	3	2	37752
FAM166A	9	140138036	140142222	2	1	31834
SDE2	1	226170403	226187032	13	5	45894
C1orf131	1	231359509	231376933	30	6	51253
RP11-219B	8	86158524	86162077	9	3	49141
LCE1B	1	152784447	152785585	1	1	47580
AHRR	5	304291	438406	377	27	49243
AP2A1	19	50270225	50310370	85	11	49476
BPIFC	22	32809834	32860471	191	38	49450
RGMA	15	93586636	93632433	165	27	45960
AC013469.	2	241053907	241064304	26	5	47649
TMEM147	19	36036497	36038428	5	3	48589
C2orf49	2	105953816	105965668	29	8	50801

LPIN2	18	2916992	3013313	163	16	47955
SDHD	11	111957497	111990353	31	4	43886
PFDN4	20	52824386	52844591	44	9	49546
HCFC1R1	16	3072621	3074287	1	1	46878
CPSF1	8	145618444	145634753	17	3	41954
ANKFY1	17	4067201	4167274	157	12	45671
SATB1	3	18386879	18487080	170	23	48329
MCM8	20	5931298	5975852	115	13	49200
PPP4R4	14	94612465	94746072	272	16	47611
OR2A2	7	143806607	143807657	4	2	52682
UBQLN1	9	86274878	86323118	119	11	50604
TRIM41	5	180649499	180662809	22	5	42298
ZNF100	19	21905568	21950430	177	13	47085
SNX8	7	2291405	2393953	213	26	47375
ZNF366	5	71738479	71803554	153	16	51060
PLB1	2	28680012	28866654	630	64	49147
LHFPL2	5	77781038	78065844	523	44	48343
OR1E2	17	3336164	3337135	2	1	50535
USP30	12	109460894	109525831	81	12	48695
PEX7	6	137143717	137235075	170	17	49325
LPAR5	12	6728001	6745613	21	7	41505
DAPK2	15	64199235	64364232	442	30	49513
C2orf47	2	200820040	200873263	85	13	51485
FAM134C	17	40731531	40762641	36	5	51097
GML	8	143915663	143997922	232	12	50386
NMRK1	9	77675489	77703133	110	18	51729
FAM71E2	19	55866276	55874628	16	4	40938
AP000350.	22	24204375	24237410	102	16	51302
SERPINA4	14	95027428	95036250	34	5	52527
TRMT13	1	100598706	100616053	29	8	45821
PON3	7	94989256	95025680	50	8	47229
VTI1B	14	68113792	68141548	55	9	49762
ABCG8	2	44066103	44105605	251	12	50200
AADA4L4	1	12704566	12727097	41	3	48564
CHRNA4	15	78916461	79020096	207	24	44545
NLRP12	19	54296857	54327648	100	21	40741
FAM76A	1	28052490	28089633	8	5	32661
FGF10	5	44303646	44389808	149	10	47419
GNB3	12	6949118	6956557	5	2	44226
CTCF	20	56071035	56100708	90	20	50693
C21orf119	21	33765439	33766254	2	1	48699
RP11-80A1	14	24970800	24977894	19	5	48655
TOMM7	7	22852251	22862470	61	8	48280
ZNF565	19	36673188	36737159	146	11	52057
RAB3GAP1	2	135809835	135933964	154	10	42480
GGNBP2	17	34900737	34946278	56	7	50286
C2orf44	2	24252210	24272445	43	9	51390
PHF13	1	6673745	6684093	18	4	48057
OR2J1	6	29068386	29069658	7	2	48308
TMEM194E	2	191369068	191399448	61	8	51705
CLEC1B	12	10138241	10166023	119	16	51440

HHIPL1	14	100111447	100146906	87	10	50532
OR5AN1	11	59131885	59132921	2	1	55272
KLHL24	3	183353356	183402265	154	2	50061
ARFGFE2	20	47538427	47653230	217	16	49396
KIAA1239	4	37245842	37451087	627	53	50560
MTFR1L	1	26145131	26159432	27	2	48234
FRY	13	32605437	32870794	715	56	50799
EFR3B	2	25264999	25378243	222	25	48376
KRTAP13-2	21	31743709	31744557	4	2	39306
TMEM133	11	100862811	100864663	10	3	51948
ARHGAP32	11	128834955	129149219	594	20	52265
NT5C2	10	104845940	104953056	227	17	50305
SLC12A4	16	67977377	68003504	23	6	45070
AKAP9	7	91570181	91739987	259	4	50566
ST5	11	8714898	8932498	495	29	48606
HOXA4	7	27168126	27170418	9	2	48766
OR2A14	7	143826151	143827162	1	1	48583
MPRIP	17	16945859	17120993	371	22	47400
RBFOX2	22	36134783	36424473	287	15	47784
SLC25A48	5	135170338	135224326	142	18	49445
CXXC4	4	105389469	105416058	23	3	46290
CRYBA4	22	27017928	27026636	32	5	51526
CD80	3	119243140	119278449	115	21	50644
POLK	5	74807581	74896969	119	12	50802
TMPO	12	98909290	98944157	79	13	48983
COX6A1	12	120875893	120878545	8	3	51790
FABP7	6	123100620	123105219	11	3	49917
SLC16A14	2	230899698	230933715	109	14	51110
NLRC4	2	32449522	32490923	70	8	48876
SLC6A12	12	299243	323736	60	9	40470
ZNF681	19	23921997	23941693	29	7	52164
ANKRD66	6	46714654	46727243	21	6	45067
EHD3	2	31456880	31492313	101	12	48296
RNF8	6	37321748	37362514	34	10	44621
HBM	16	203891	216767	25	6	46447
ZNF695	1	247108849	247171395	188	22	49407
EFNB2	13	107142079	107187462	70	14	47649
PRSS48	4	152198323	152212605	22	4	49810
RFXAP	13	37393361	37403241	11	2	48129
FMO1	1	171217638	171255117	95	16	45323
BCMO1	16	81272053	81324747	154	19	47454
CBLC	19	45281126	45303891	46	7	40224
UPK3A	22	45680863	45691755	31	5	49664
HERC6	4	89299891	89364263	50	12	40608
TMEM171	5	72416119	72427644	30	9	46149
GINM1	6	149887430	149912884	15	3	44974
TSPO2	6	41010293	41012076	3	1	50517
MLXIPL	7	73007524	73038873	68	9	51347
OR11L1	1	248004199	248005254	8	1	48062
NISCH	3	52489134	52527087	67	5	46274
MRPL18	6	160210844	160219468	43	6	50004

ACSM2B	16	20547548	20587749	101	11	43631
PAPOLB	7	4897364	4901625	12	3	49265
INO80D	2	206858445	206951027	186	19	51145
CCDC168	13	103381801	103389159	8	3	45474
DGCR6	22	18893541	18901751	20	5	37778
DAOA	13	106118216	106143383	112	10	52329
RAET1L	6	150339470	150346668	13	3	50771
VPS25	17	40925454	40931617	2	1	39147
SLIRP	14	78174414	78227447	189	18	53162
PLEKHB1	11	73357223	73373864	52	11	47801
DTYMK	2	242615157	242626406	39	4	40811
UNC50	2	99225042	99234978	13	2	50393
COL27A1	9	116917840	117074791	542	76	48799
PPM1K	4	89178772	89205921	24	4	47303
HSPH1	13	31710762	31736525	52	6	50449
WDR64	1	241815580	241965435	466	50	49547
TMEM44	3	194308402	194354418	250	25	49712
SPDYE3	7	99905325	99919819	5	1	55057
C18orf25	18	43753519	43846949	116	7	47853
KIAA1467	12	13197218	13295455	136	15	47655
ATP8B4	15	50150435	50475014	903	52	51062
PNLDC1	6	160221298	160241736	57	12	49998
PPIL4	6	149825869	149867174	34	2	39518
ST6GALNA4	9	130670165	130679317	15	5	39302
COL10A1	6	116440086	116479910	69	11	50396
WDR87	19	38375463	38397317	29	7	50911
SPINK5	5	147405246	147516852	482	17	49968
OR12D3	6	29341200	29343068	11	5	47700
ADIPOR1	1	202909951	202927700	47	9	48959
YTHDF3	8	64081112	64125346	51	9	48031
NDST1	5	149865381	149937773	109	14	48692
MED16	19	867962	893218	66	8	40636
TCERG1L	10	132890654	133109984	1030	113	49649
MAT2A	2	85766288	85772403	7	4	47271
ZBTB25	14	64915824	64971931	106	8	50559
CRYGC	2	208992861	208994554	4	2	51367
C8G	9	139839698	139841426	10	3	43660
LILRA4	19	54844456	54850421	23	7	41242
RAP1GAP	1	21922708	21995801	251	46	50261
SLC27A4	9	131102925	131123749	31	6	46507
IL3	5	131396222	131398897	3	1	49230
DCPS	11	126173647	126215644	123	16	51589
EVI2B	17	29630784	29641130	12	2	47617
HAMP	19	35771619	35776046	8	3	52752
DHRS13	17	27224799	27230089	7	3	53313
PSMB10	16	67968405	67970990	2	1	42367
ACR	22	51176624	51183762	5	2	38628
USP6	17	5019733	5078329	112	12	50174
NEXN	1	78354198	78409580	86	14	47481
PKNOX1	21	44394620	44453691	263	14	52690
CDC40	6	110501344	110575478	159	15	50250

P2RX6	22	21364097	21383119	59	14	46831
TNFSF14	19	6663148	6670599	24	9	44551
COL5A2	2	189896622	190044605	352	11	51449
PIF1	15	65107831	65117867	27	5	48351
RPS16	19	39923847	39926588	12	2	46126
GOLPH3L	1	150618701	150669630	100	5	49415
MBLAC2	5	89754020	89770585	13	3	45187
SCO2	22	50961997	50964868	13	5	44433
SELO	22	50639408	50656045	43	9	44900
GLTP	12	110288748	110318293	59	10	49062
NSUN6	10	18834490	18940551	349	17	53323
C20orf194	20	3229951	3388272	546	15	51586
ZIM3	19	57645464	57656570	40	7	45206
FASTKD1	2	170386259	170430385	105	16	51089
TRIM61	4	165875598	165898820	45	7	49893
OR10A2	11	6890924	6891976	8	1	52431
SLC25A29	14	100757448	100772884	27	5	49214
CYP27B1	12	58156117	58162769	6	2	49401
CBLN4	20	54572496	54580528	7	3	39101
NUBP2	16	1832902	1839192	21	4	49293
SYTL3	6	159071046	159185908	348	38	49826
SNRPA	19	41256542	41271294	28	7	48566
RAB5A	3	19988571	20026667	127	16	50514
CAV2	7	115927434	116148595	490	33	51526
AL355390.	13	74987094	74993252	28	9	50837
CLK1	2	201717732	201729422	20	6	44786
CDH17	8	95139399	95229531	223	28	50183
LEAP2	5	132208014	132210738	7	2	50427
CHD1	5	98190908	98262240	115	11	50159
ATL1	14	50999227	51099786	151	15	50678
KIFC3	16	57792129	57896957	334	37	46789
ANKRD63	15	40573645	40574787	1	1	54152
R3HCC1L	10	99894387	100004654	161	14	51733
TCHH	1	152078793	152086556	6	3	46669
DMPK	19	46272975	46285810	15	4	49083
KLF9	9	72999503	73029540	39	12	46587
CA5A	16	87921625	87970135	134	21	38957
SERBP1	1	67873493	67896098	19	5	47123
OR4A16	11	55110627	55111707	3	2	48034
AAR2	20	34824381	34858840	31	10	43867
NMNAT3	3	139279022	139396859	202	30	49710
NAV3	12	78224685	78606790	1103	68	51313
CYP19A1	15	51500254	51630807	304	25	48847
KNOP1	16	19714902	19729557	27	2	50222
MED18	1	28655513	28662476	5	2	37863
CCDC140	2	223162866	223169936	11	5	43664
SLC7A14	3	170177372	170303863	244	33	49900
TUBB4A	19	6494330	6502859	11	4	37645
OR51B6	11	5372738	5373676	19	3	50464
COX20	1	244998624	245008359	17	2	47466
CDC20	1	43824626	43828874	5	3	50449

ACTG2	2	74119441	74146992	105	10	46918
GRB2	17	73314157	73401790	178	10	46457
HIRIP3	16	30003645	30007757	2	1	41904
GSAP	7	76940068	77045717	294	20	51006
TNFSF13	17	7461609	7464925	5	3	45645
RAPGEFL1	17	38333263	38351908	26	6	42182
LCORL	4	17842822	18023499	380	13	47561
PPIH	1	43124096	43142429	31	7	51119
DMGDH	5	78293438	78531861	465	28	49303
LAMA5	20	60883011	60942368	236	21	45821
OSR1	2	19551246	19558414	13	5	45784
PPFIA1	11	70116806	70230509	212	8	47212
GPR22	7	107110463	107116098	7	3	51504
NEDD8	14	24686058	24701660	14	4	46956
AC092675.	2	98947852	98972468	73	12	52566
ECE2	3	183967438	184010819	85	14	49162
OR2B2	6	27878963	27880174	4	2	50820
TECRL	4	65140975	65275186	409	12	47870
RAB11FIP3	16	475619	573011	192	17	44795
OLFM2	19	9964394	10047228	165	17	49649
PAPSS1	4	108511433	108641608	345	21	49646
PRKCH	14	61654277	62017694	764	65	47718
EIF4EBP2	10	72164135	72188374	36	7	52096
RSPH9	6	43612783	43640336	78	8	46616
SDR42E1	16	82031221	82045093	15	7	39381
AC002451.	7	95171457	95173854	7	4	46540
SHBG	17	7517382	7536700	36	9	49243
ANGPT4	20	853296	896977	184	29	47054
IFNL2	19	39759154	39760732	4	2	41824
ITPRIPL2	16	19125254	19132946	3	1	38184
DCUN1D3	16	20866247	20911706	61	7	49662
NOTCH2	1	120454176	120612240	87	6	39528
KIAA1456	8	12803151	12889012	509	29	51164
SPESP1	15	69110560	69239150	89	8	47234
XYLT1	16	17195626	17564738	1038	92	48523
CCNB2	15	59397277	59417244	24	5	46830
MRPL44	2	224822121	224832431	16	3	49466
OR10X1	1	158548709	158549689	5	1	51376
CACFD1	9	136325089	136335970	27	7	44766
HMGXB4	22	35653445	35691800	73	3	47837
CAMK1	3	9799026	9811676	14	4	50296
SPATA33	16	89724210	89737680	47	10	46631
LA16c-431t	16	1682260	1736716	84	6	47750
PTP4A1	6	64231666	64293492	78	10	48337
C14orf164	14	23654525	23742686	235	24	48942
C20orf197	20	58630980	58648008	30	4	47746
OR51A2	11	4976002	4976943	6	2	50228
FGF8	10	103529899	103535854	3	2	42914
FOXE3	1	47881744	47883723	2	1	48699
SLCO3A1	15	92396925	92715665	969	75	51185
DNAJB4	1	78444859	78483648	74	15	47846

C11orf52	11	111788756	111797596	7	1	44156
ANXA1	9	75766673	75785309	38	10	49460
DSCR3	21	38595721	38640262	82	16	50887
CTD-2207C	19	7571938	7584508	30	6	45881
RP11-166B	16	12021230	12070500	121	13	47669
TCP11L1	11	33060963	33127489	239	13	52026
DPY19L1	7	34968488	35077883	310	13	52043
RRAS2	11	14299472	14386052	90	18	45776
ZNF257	19	22235254	22274282	159	6	51527
ZNF334	20	45129701	45142198	16	4	48009
TMEM56	1	95582894	95663163	207	26	50389
ZNF417	19	58411664	58427978	34	6	50428
C16orf87	16	46830519	46865323	18	2	46628
OR6P1	1	158532441	158533394	3	1	52411
ATM	11	108093211	108239829	144	8	47982
UBE2Q1	1	154521053	154531504	11	2	49445
SLC15A5	12	16341419	16430619	297	15	52911
PLK2	5	57749809	57756087	24	5	53529
RP11-861L	18	66567018	66569492	6	2	47872
FDX1	11	110300607	110335605	101	8	53808
MITF	3	69788586	70017488	392	16	50402
KIF1B	1	10270863	10441661	482	15	50452
POU2F3	11	120107349	120190653	179	24	44849
FLJ00418	16	70695570	70699739	8	4	44171
CRYGD	2	208986331	208989225	7	2	47389
RBM25	14	73525144	73588122	110	18	50849
UTP6	17	30187923	30228784	94	11	48566
SCUBE1	22	43593289	43739394	518	65	47388
PLOD1	1	11994262	12035595	101	10	49949
COL4A2	13	110958159	111165374	856	84	49334
CYP4F11	19	16023177	16045677	97	7	51465
TMEM37	2	120187477	120196096	33	6	47695
AC114546	15	35270552	35272268	3	1	42315
ZNF697	1	120162045	120190396	61	11	48569
PRR15	7	29603427	29606911	12	5	50051
ZNF441	19	11877815	11894893	60	5	46153
STXBP2	19	7701767	7712759	19	3	47974
RPL30	8	99037079	99058697	52	10	49143
LCE5A	1	152483320	152484653	4	2	44260
LZTS3	20	3143263	3154192	24	7	48460
CCDC137	17	79633394	79640934	43	5	52236
EDNRB	13	78469616	78493903	50	9	46891
ZFYVE28	4	2271309	2420390	558	41	50388
ZNF837	19	58878985	58892427	33	5	50296
ZYG11B	1	53192126	53293014	173	11	47283
ARHGAP17	16	24930706	25026987	139	10	50293
CNTROB	17	7835419	7853236	38	3	50819
GTF2IRD1	7	73868120	74016931	188	19	44906
FXD4	10	43867090	43871783	10	4	45836
METTL25	12	82752276	82873015	234	10	44473
LAMC2	1	183155373	183214035	174	12	51654

MUT	6	49398073	49430904	60	6	52479
SLC17A8	12	100750857	100815837	137	21	48124
LIFR	5	38475065	38608456	138	11	51333
LPXN	11	58294344	58345693	56	9	51047
C10orf71	10	50507187	50535537	77	13	51817
TOMM20L	14	58862634	58875419	7	4	42934
ANGPTL1	1	178818840	178840187	27	7	48345
RAB18	10	27793197	27831143	41	8	50000
ETAA1	2	67624451	67637677	34	5	52327
SNX10	7	26331541	26413949	199	23	50432
TSG101	11	18489883	18548779	134	12	52513
IFNB1	9	21077104	21077943	1	1	55857
WWP1	8	87354967	87490649	317	17	49291
SMYD3	1	245912642	246670614	2713	86	47177
EOGT	3	69024365	69063112	110	11	51707
FRK	6	116252312	116381921	259	21	47924
ITIH5	10	7601232	7708961	402	50	46567
DUSP27	1	167063282	167098402	127	16	50812
ENDOV	17	78388965	78411886	74	16	46827
MMS22L	6	97590037	97731093	241	16	49222
FBXO41	2	73481810	73511559	33	10	45964
LIMD1	3	45596886	45727830	432	25	51394
TOP3A	17	18174742	18218321	75	7	51171
C19orf81	19	51152702	51162567	21	5	41597
YAE1D1	7	39605975	39649919	145	18	47266
ROBO1	3	78646390	79816965	2251	82	49654
PURA	5	139487362	139496321	3	2	48132
FAM228A	2	24397938	24423718	69	10	46614
RP11-1099	17	7829249	7833940	10	2	49801
ARHGEF7	13	111766906	111958084	520	41	49278
TOR1AIP1	1	179851177	179894135	109	11	51489
C15orf38-A	15	90377540	90456114	145	11	50571
STRN4	19	47222764	47250251	44	8	50390
ZIC1	3	147111209	147228080	241	21	53066
WFDC12	20	43752066	43753106	3	1	53387
KDSR	18	60994959	61034743	78	10	47610
RAB3GAP2	1	220321635	220445796	205	17	51554
GJD3	17	38517235	38520067	6	2	41677
TBC1D29	17	28884130	28890511	8	3	51057
AC126614.	12	57810198	57810536	1	1	49358
XXbac-BPG	6	32905141	32920899	87	9	46208
CSF1R	5	149432854	149492935	158	28	48360
EGR2	10	64571756	64679660	307	20	50073
RPRML	17	45055523	45056614	1	1	55273
CPA1	7	130020180	130027955	14	3	47668
GHSR	3	172162923	172166246	8	3	49007
CCNA2	4	122737599	122745087	16	4	45222
LILRA3	19	54799854	54809952	17	5	34607
RALGAPA1	14	36007558	36278510	300	12	46816
CCDC94	19	4247076	4269087	64	3	49493
GRK5	10	120967101	121215131	650	55	47846

PTGES2	9	130882972	130890741	3	1	42148
TSN	2	122494679	122525429	31	5	48747
PAXIP1-AS2	7	154720208	154741618	38	4	52879
AMFR	16	56395364	56459450	138	12	51448
CYSLTR2	13	49280951	49283498	3	2	41563
TM2D2	8	38846327	38854343	16	3	50945
NDRG3	20	35280169	35374481	72	24	43559
TMED10	14	75598173	75643334	47	4	47104
DUSP12	1	161719548	161727028	28	6	50822
MAST3	19	18208603	18262502	156	14	49412
LYZL1	10	29577990	29607257	157	19	52442
HADHB	2	26466038	26513336	64	5	46894
MEDAG	13	31480328	31499709	45	11	51125
SHMT1	17	18231187	18266856	79	9	53167
ARFGAP1	20	61904137	61921142	36	3	38397
ACAA1	3	38144620	38178733	44	11	47202
AP000679	11	120039685	120042387	10	4	51826
SPPL2A	15	50999506	51058005	166	12	48241
KLHL18	3	47324407	47388306	41	9	45466
CNTN5	11	98891683	100229616	4984	195	50643
GPATCH2	1	217600334	217804424	396	44	46786
CUL3	2	225334867	225450110	254	12	52327
CTTN	11	70244510	70282690	68	6	48433
RP11-45H2	5	54252063	54253674	10	2	53157
FAM69C	18	72102963	72125179	62	12	47662
MTR	1	236958610	237067281	219	12	47958
CRYBB2	22	25615489	25627836	38	11	44704
CLPS	6	35762759	35765088	7	3	46390
STEAP2	7	89796904	89867451	190	15	50929
BRD9	5	850406	892939	85	4	51197
TCIRG1	11	67806483	67818362	18	6	48664
LIPC	15	58702768	58861151	421	52	48337
OR51A4	11	4967355	4968356	5	2	51045
KCNJ4	22	38822332	38851205	64	11	45041
RP11-116D	12	115800817	115802550	4	2	51217
IGSF23	19	45116940	45140081	71	12	51209
MBNL2	13	97873688	98046374	296	22	48314
RELA	11	65421067	65430565	11	4	48487
SMAP2	1	40810522	40888998	165	26	49624
PDDC1	11	767220	777488	28	5	47492
TIMM17A	1	201924619	201939789	36	7	49725
RBM5	3	50126341	50156454	26	6	49390
IGSF22	11	18725852	18747777	69	10	50516
MRTO4	1	19578033	19586622	50	8	49609
LST1	6	31553901	31556686	13	7	44440
VAV2	9	136627016	136857726	837	69	45967
DNAJB5	9	34989638	34998897	7	4	37477
GP2	16	20320894	20339130	35	6	43674
TMEM50A	1	25664408	25688852	15	3	43540
C5AR1	19	47793280	47825323	67	6	49969
SLC3A1	2	44502599	44548633	100	10	49016

DHFR	5	79922047	79950802	125	5	52817
AGFG1	2	228336868	228425930	263	17	50540
RBFOX3	17	77085427	77613550	1629	198	45392
HABP2	10	115310596	115349361	161	28	49189
RPL24	3	101399935	101405626	9	4	48928
WWOX	16	78133310	79246564	5862	320	48781
PGR	11	100900355	101001255	297	18	49283
OR1A2	17	3100813	3101742	5	2	47703
NRXN1	2	50145643	51259674	3160	118	50067
SLC16A1	1	113454469	113499635	43	7	48030
VIL1	2	219283815	219318018	32	3	46807
BCKDHA	19	41884215	41930910	97	3	49025
SH2D5	1	21046225	21059330	33	8	45328
FAM107A	3	58549844	58613337	234	30	50656
RBM43	2	152104454	152118393	23	4	46954
ZNF256	19	58452201	58459043	10	3	46139
NPC1L1	7	44552134	44580914	51	7	46861
SNTG2	2	946554	1371385	1701	63	50673
UGT2B11	4	70065669	70080449	48	8	50058
PPIC	5	122358945	122372436	33	8	50453
MTRNR2L3	20	55933496	55934878	8	1	50387
HESX1	3	57231944	57260549	37	7	43939
FBXO11	2	48016455	48132932	281	16	52695
IDH1	2	209100951	209130798	43	7	48261
ZNF827	4	146678779	146859787	268	29	48942
SLC16A11	17	6944949	6947242	2	1	48810
ZNF274	19	58694396	58724928	59	11	46678
AGBL3	7	134671259	134832715	280	12	53702
WDR43	2	29117509	29171088	163	12	50324
DOK4	16	57505863	57521239	41	11	49020
TBR1	2	162272605	162282381	8	3	48048
AC008443.	5	180682720	180684578	1	1	37406
VWA3B	2	98703579	98929762	560	30	52281
CCDC109B	4	110481361	110609874	281	16	51733
CNNM3	2	97481982	97499648	15	2	44364
LRRC16B	14	24521206	24538937	28	8	42737
COL9A3	20	61447596	61472511	78	12	42231
TPM2	9	35681989	35691017	20	5	48118
TMEM132/	11	60691935	60704631	40	5	49102
C4orf47	4	186347394	186370980	64	8	49751
EIF4B	12	53399942	53435993	92	5	44687
LCK	1	32716840	32751766	19	7	43009
DNAJB12	10	74092588	74114988	50	2	42127
SDHC	1	161284047	161332984	211	7	49650
ZNF790	19	37308330	37341689	35	6	50290
WNT7A	3	13857755	13921618	199	32	47773
TSSC4	11	2421718	2425106	3	1	33978
MYO1A	12	57422301	57444982	52	7	49850
RRP36	6	42989383	43001894	16	3	44237
ARRDC5	19	4890449	4902879	41	8	42648
RYR1	19	38924339	39078204	462	36	47123

MATN2	8	98881068	99048944	429	39	50503
PAIP2	5	138677276	138705406	20	5	44778
VTA1	6	142468367	142545826	117	8	48088
GH2	17	61957578	61959295	1	1	47796
RP11-302M	1	90098699	90398809	454	31	49736
NDUFB3	2	201936156	201950473	25	5	44319
RFT1	3	53122499	53164478	89	7	50753
LRP5L	22	25747385	25801344	74	9	38014
TEX40	11	64067863	64072242	5	2	46815
ABI3	17	47287589	47300587	35	9	46809
DCUN1D1	3	182655862	182703741	52	8	47924
LYZL4	3	42438570	42452092	25	6	50095
TLCD1	17	27051366	27054953	4	2	51654
INADL	1	62208149	62629592	1143	86	48329
PRSS38	1	228003394	228034171	105	17	49310
CES1	16	55836763	55867249	51	7	36397
GPR39	2	133174147	133404132	571	44	49873
ATG4B	2	242576628	242613272	120	12	43236
GTSF1L	20	42354804	42355638	1	1	34593
ARHGAP28	18	6729717	6915715	379	40	49362
C22orf26	22	46445358	46450024	8	2	45097
MT3	16	56622986	56625000	7	3	50324
BSDC1	1	32830704	32860332	7	4	40315
RAPGEF2	4	160025330	160281321	392	29	49280
LACTB2	8	71547553	71581409	91	12	50007
KIAA1324	1	109656301	109749401	305	29	50553
RETSAT	2	85569211	85581743	23	7	45503
KIAA0907	1	155882834	155904191	21	3	43307
UIMC1	5	176332006	176449634	338	12	38499
HUS1B	6	655939	656963	4	2	48009
AP1M1	19	16308389	16346160	109	6	49693
RNF157	17	74138534	74236454	191	21	48616
ASAH1	8	17913934	17942494	165	14	50081
C12orf60	12	14956506	15059520	226	10	52238
OR7D4	19	9324526	9325542	3	1	46530
PARP16	15	65526798	65592956	136	12	48524
MARC2	1	220921567	220958150	96	7	41786
GABRA4	4	46920917	46996424	214	19	51084
KCTD15	19	34286838	34306668	39	14	46525
RBBP9	20	18467184	18477887	21	8	46371
SLC16A10	6	111408781	111552397	213	17	50461
CHRNE	17	4801069	4806369	19	6	45926
ABCC9	12	21950335	22094336	252	25	49051
FAM131B	7	143050493	143059863	10	4	40597
TMEM150E	19	55824169	55845416	66	8	48961
AGAP5	10	75434033	75457639	4	1	53447
WDR36	5	110427414	110466200	94	10	50945
C1QL3	10	16555742	16564004	31	7	50488
HOXC4	12	54447661	54449814	4	2	44743
C1orf65	1	223566715	223568812	7	1	51274
DPCR1	6	30908749	30921998	33	10	46057

TMC4	19	54663846	54676944	23	5	40237
HIST1H2BF	6	26199748	26200942	10	4	49399
POMC	2	25383722	25391772	13	5	47376
RAB17	2	238482965	238510257	133	19	47821
TRIM3	11	6469843	6495689	44	8	46189
AMBRA1	11	46417964	46615675	136	11	45728
ZNF852	3	44540462	44552128	7	3	50120
MOB2	11	1490687	1522477	87	8	52110
PLEKHD1	14	69951409	69995215	102	16	48892
OSCAR	19	54597933	54606000	20	8	41318
C10orf62	10	99349450	99350690	3	1	51649
CCNDBP1	15	43477316	43487396	9	3	40693
SPCS1	3	52738971	52742182	4	2	46372
CCDC166	8	144788864	144790279	2	1	36712
ZC2HC1A	8	79578282	79632000	111	11	47982
FAM189A1	15	29412457	29862927	1178	73	49125
CST1	20	23728190	23731905	14	4	46239
NXPE3	3	101498046	101547073	70	8	51661
PGK2	6	49753366	49755053	1	1	55623
SYTL1	1	27668513	27680421	23	7	37378
RP11-426L	1	113245236	113254055	17	5	50150
CACUL1	10	120433679	120514761	191	18	48781
SEC23A	14	39501123	39578850	177	21	52479
RPS11	19	49999622	50002946	7	1	46242
AL359195.1	10	82009466	82013395	16	3	49844
TNFAIP8	5	118604387	118735383	426	32	48635
MXRA8	1	1288069	1297157	1	1	39992
CLEC9A	12	10183276	10218565	51	6	47294
PHTF2	7	77428122	77586818	313	18	49491
CCNB1	5	68462837	68474072	26	3	51128
LRRC73	6	43474707	43478424	6	1	43919
INHBB	2	121103719	121109384	2	1	33457
SMIM4	3	52568029	52613253	90	9	45399
MYL4	17	45277812	45301045	42	11	50629
ADAT3	19	1905377	1913444	30	4	40775
TBX5	12	114791736	114846247	135	23	48999
C20orf27	20	3734155	3749034	54	17	46196
CORO6	17	27941774	27949925	8	3	47328
ARHGEF40	14	21538429	21558399	41	7	48391
HS3ST3A1	17	13399006	13505244	349	30	49558
PCK1	20	56136136	56141513	20	7	49060
C1QTNF6	22	37576207	37595425	67	8	49208
RP11-599B	17	8054134	8066293	22	4	43777
CAPN8	1	223711349	223853436	251	27	50399
ADRA1B	5	159343790	159399551	131	14	49801
PIK3CA	3	178865902	178957881	186	18	50224
SMEK2	2	55774428	55846015	192	22	50080
AC022431.1	5	55807394	55902059	348	53	48319
SNCA	4	90645250	90759466	327	19	47719
SURF4	9	136228325	136242970	34	6	51896
TIMM9	14	58875212	58894332	14	2	48460

SPECC1	17	19912657	20222339	561	15	51211
UTRN	6	144606837	145174170	942	62	48050
GLIS1	1	53971910	54199877	493	28	50236
ZNF461	19	37128094	37157755	57	8	49294
HSPA5	9	127997132	128003609	4	2	48627
TMPRSS11I	4	69092371	69111438	25	3	47422
RNF20	9	104296133	104325622	53	12	52249
SH2D1B	1	162365056	162381928	56	7	50687
HSPB9	17	40274756	40275371	1	1	39015
RNASE9	14	21024252	21029090	14	4	46004
SLCO1A2	12	21417534	21572528	476	37	50532
A2ML1	12	8975068	9039597	176	20	50661
MAPK7	17	19281034	19286857	1	1	31170
HDAC7	12	48176505	48226915	153	29	47286
PTGER1	19	14583278	14586174	8	3	46800
RP11-93B1	20	61272071	61274656	4	1	48800
ASIC2	17	31340105	32501983	3254	240	50462
PPP6C	9	127908852	127952218	71	6	52815
TNFSF18	1	173009100	173020103	24	4	48255
KLC4	6	43008515	43042837	68	8	48342
PIK3CD	1	9711790	9789172	106	19	44541
SLX4	16	3631182	3661599	81	3	52535
AIM1	6	106959730	107018326	232	21	51756
TUBB6	18	12307668	12344319	91	6	49088
NDUFA13	19	19626545	19644285	32	3	51464
OR4D11	11	59271049	59271984	1	1	44052
SULT2A1	19	48373723	48389654	56	8	49958
AKAP12	6	151561134	151679692	412	51	49863
OR1A1	17	3118915	3119844	7	3	48213
HTR5A	7	154862034	154877459	50	7	46734
DYDC1	10	82095861	82116511	45	9	48908
TM4SF19	3	196046213	196065374	60	9	50549
GSTK1	7	142941186	142967947	10	5	46765
PXDN	2	1635659	1748624	322	38	48418
ZNF728	19	23158270	23185978	59	4	48910
MORC2	22	31321117	31364284	46	5	50151
OMP	11	76813886	76814377	2	1	47759
C1orf227	1	213003483	213020991	76	12	51403
NUDT6	4	123809852	123844123	117	15	48815
CRYBB3	22	25595817	25603330	27	10	47161
SFTPB	2	85884437	85895864	16	6	47373
RP11-268J1	1	36789335	36794822	10	2	48749
MRPL34	19	17403418	17417652	40	7	51152
LIM2	19	51883163	51891214	19	4	38489
MINOS1	1	19923477	19956314	67	10	50515
CSAD	12	53551447	53575135	26	3	50634
PGAP3	17	37827375	37853050	62	4	45927
LRSAM1	9	130213765	130265780	99	10	51328
HIATL2	9	99660348	99775862	18	8	40086
ZNF813	19	53970989	54006950	161	26	49860
CTSH	15	79213400	79241916	82	9	47152

TMCO6	5	140019012	140024993	10	3	52183
AC006435.	17	2310279	2318731	19	6	47431
DNAI2	17	72270386	72311023	137	17	46343
ADRBK2	22	25960816	26125261	321	12	41128
ZNF286B	17	18561742	18585575	25	5	46091
SAAL1	11	18091482	18127638	101	8	52267
HRH1	3	11178779	11305243	318	34	47265
CALCB	11	14926543	15103888	270	9	49396
SEC22A	3	122920774	122992977	234	6	52263
HOXD8	2	176994422	176997423	4	2	40522
NPTN	15	73852355	73926475	113	12	47619
GJC1	17	42875816	42908184	48	10	52420
SMAD6	15	66994566	67074338	197	24	50924
LCE3D	1	152551857	152552980	2	1	49671
UBTF	17	42282401	42298994	23	6	43187
HLX	1	221051699	221058401	17	5	51073
XCL1	1	168545711	168551315	15	3	43248
SFPQ	1	35641979	35658749	1	1	42125
PPP1R8	1	28157289	28178187	16	2	36202
ZDHHC19	3	195924320	195938308	79	13	50948
NOP10	15	34633917	34635378	14	4	48933
TRH	3	129693148	129696781	9	4	48476
CXXC1	18	47808713	47814674	10	4	50611
GALM	2	38893052	38968379	177	21	49965
GRM6	5	178405328	178423207	82	9	47501
SLC25A37	8	23386318	23432976	245	22	49795
SAP25	7	100169855	100171270	1	1	50741
MAPK8	10	49514698	49647403	243	22	50384
CA3	8	86285665	86361269	114	13	43177
AL590708.1	9	130890612	130891481	2	1	50396
RP11-571M	12	58166811	58180829	22	2	47305
TMEM132E	12	125671382	126146917	1337	132	49231
SLC35G2	3	136537489	136574734	86	4	52075
MX1	21	42792231	42831141	169	12	48661
APOC3	11	116700422	116703788	18	5	43831
XRR1	11	74518784	74660245	188	21	49467
CLCN7	16	1494935	1525581	158	14	49581
TRIM47	17	73870242	73874656	10	2	47903
PLXNA2	1	208195587	208417665	525	45	49395
MFNG	22	37865101	37882439	21	6	46420
CALHM2	10	105206543	105212660	8	5	39959
RAG2	11	36597124	36619829	59	7	47580
C21orf59	21	33964389	33985176	58	6	51385
ADAM21	14	70918874	70926622	40	9	49083
FLRT2	14	85996488	86095034	300	33	50706
ADAM18	8	39442008	39587583	223	22	50152
CARD14	17	78143791	78183130	128	27	46983
CARS2	13	111293759	111365950	271	14	50037
HIST1H3J	6	27858093	27860884	7	2	46946
SENP1	12	48436681	48500091	150	14	51658
NOXA1	9	140317802	140328858	5	2	32990

C17orf77	17	72580818	72590348	27	5	47861
ESRP2	16	68263014	68272005	4	2	49451
USP20	9	132596977	132644107	328	11	47562
C5orf22	5	31532373	31555165	54	10	50996
TRIM32	9	119449581	119463579	25	6	53982
IGFBP1	7	45927956	45933267	16	5	51755
THAP10	15	71173681	71185124	9	4	45474
RBMS2	12	56915713	56984745	116	10	49135
CISD3	17	36886488	36891297	9	3	48743
TFCP2	12	51487446	51566926	207	19	49787
ELAC2	17	12895708	12921504	145	7	53742
ULK1	12	132379196	132407712	49	6	44384
PRR23B	3	138737873	138739768	1	1	46639
KCNRG	13	50589390	50595058	12	3	51585
LAMB4	7	107663993	107770801	186	16	48823
ART4	12	14978503	14996429	42	5	51235
TRIM43	2	96257766	96265526	2	1	42782
TSNARE1	8	143293441	143484601	596	30	49070
DYNC2H1	11	102980160	103350591	1555	27	52160
WIZ	19	15532319	15560762	14	4	42032
ECM2	9	95256365	95298937	88	11	47752
GRHL2	8	102504660	102681954	431	40	47815
ZNF502	3	44754135	44765323	12	5	47740
EVI5	1	92974253	93257961	503	10	51412
TMPRSS11I	4	68686594	68749750	134	16	47750
C7orf55	7	139024203	139031065	19	2	48307
MPHOSPH6	16	82181403	82203831	192	11	48889
TMEM173	5	138855119	138862520	10	2	46921
HTRA3	4	8271492	8308838	112	12	49314
TMEM209	7	129804555	129847610	83	12	52107
CCDC122	13	44398045	44453827	181	19	47066
KRT72	12	52979373	52995322	72	10	52348
LAMC3	9	133884469	133969860	251	35	45659
SCAF4	21	33043346	33104388	116	14	48624
GRB14	2	165349322	165478358	186	25	49460
DNAJC5G	2	27498289	27504367	8	3	46311
RSPH3	6	159393903	159421219	154	7	46284
COX11	17	53029263	53046146	60	6	53029
OTUD7B	1	149909705	149982625	48	5	48300
NELFB	9	140149625	140167998	6	1	36554
NCDN	1	36023074	36032875	3	1	38322
PPDPF	20	62152077	62153559	3	2	38001
IKZF3	17	37921198	38020441	208	5	48897
KIAA1324L	7	86506222	86689015	392	13	50488
POMT2	14	77741299	77787227	146	25	49077
CYP2D6	22	42522501	42526908	9	4	45695
FAM111A	11	58910221	58922512	15	4	48603
SLC9A3R2	16	2075357	2089027	21	4	41520
DENND1C	19	6467218	6482568	33	6	36934
RLN1	9	5334969	5339873	12	3	52819
VGLL3	3	86987119	87040269	42	8	46120

TAF15	17	34136459	34191619	89	7	48915
LPHN2	1	81771845	82458120	2022	140	49932
DEF6	6	35265595	35289548	39	6	44903
CDT1	16	88869621	88875666	15	4	41901
CD200R1	3	112640056	112693969	213	22	47998
ZNF488	10	48355024	48373866	33	9	46908
PHOX2A	11	71950121	71956708	7	2	49049
FAM200A	7	99143931	99156159	8	2	48949
HEATR5B	2	37195526	37311485	291	22	52084
TMEM39A	3	119148347	119187677	99	12	51490
C1orf109	1	38147242	38157914	31	4	50003
SNW1	14	78183942	78227550	150	16	53309
CANX	5	179105629	179157926	121	15	49025
NT5DC4	2	113479063	113500456	31	4	47957
MUL1	1	20825943	20834654	23	7	49283
FPGT-TNNI	1	74663919	75009666	485	37	49152
TNNI3K	1	74663947	75010112	485	37	49152
CKMT1A	15	43985084	43991420	4	1	49119
ZNF512B	20	62588055	62680113	164	13	47552
FGD5	3	14860469	14975895	472	32	50831
NGF	1	115828539	115880857	172	31	46422
FZD4	11	86656721	86666433	18	4	43626
TRPT1	11	63991271	63993726	4	2	49712
BZW2	7	16685756	16746148	156	19	47292
FIBCD1	9	133777825	133814673	124	17	44589
NDUFS2	1	161166894	161184185	30	10	49429
RP5-1021I2	14	74318674	74398981	275	14	48969
ARF1	1	228270361	228286912	22	5	47429
PRSS21	16	2867164	2876305	12	2	48937
MKRN2	3	12598513	12625212	57	10	47753
DZIP1L	3	137780832	137834660	109	6	48654
C1orf189	1	154171848	154178809	3	2	46624
ADAMTS9	3	64501333	64673676	402	34	48270
PCTP	17	53828340	53920191	229	11	50665
SLAMF8	1	159796540	159807039	18	3	46642
CGB8	19	49550895	49552400	1	1	35196
RDH5	12	56114151	56118489	7	3	43876
TPRG1L	1	3541566	3546691	11	3	43868
TRIM29	11	119981983	120056237	148	20	49721
ZNF446	19	58985384	58992597	11	3	50378
TRIM52	5	180681417	180688119	12	4	44707
LRRC36	16	67360701	67419106	92	9	47033
CDK5RAP2	9	123151147	123342448	219	19	47706
IGFBPL1	9	38408991	38424444	48	12	48982
USP38	4	144106070	144144983	68	6	51893
CD38	4	15779898	15854853	216	18	50117
PAK7	20	9518036	9819689	865	72	50095
GDF7	2	20866424	20873418	15	3	43614
AZI1	17	79163393	79196799	115	18	42275
ANAPC1	2	112523848	112642267	139	11	47239
C5orf54	5	159820155	159827104	10	4	48600

RIPK4	21	43159529	43187266	103	16	50350
DYNLRB2	16	80574631	80584657	37	4	45685
TEX29	13	111968531	111996596	134	22	47797
PDPK1	16	2587965	2653189	6	3	32673
AC005008.	7	80804824	80828431	71	6	52249
HNF4G	8	76320149	76479078	547	32	51072
ZSCAN29	15	43650370	43663223	24	4	47094
KCNQ1	11	2465914	2870339	916	111	45186
PI4KB	1	151264273	151300191	28	5	47112
LARP4	12	50786166	50873787	79	6	40888
KAT8	16	31127075	31142714	23	4	49600
ALPK3	15	85359911	85416713	136	23	48373
KRTAP12-4	21	46074130	46074576	2	1	42047
FBXO47	17	37092685	37123655	24	6	48157
AP1S3	2	224616403	224702744	306	23	49867
PNMT	17	37824234	37826728	3	2	37223
PAFAH1B3	19	42801185	42807698	5	2	43302
RPRD1A	18	33564350	33647539	144	12	50102
SMARCA5	4	144434616	144478639	72	6	52262
KIAA1147	7	141356528	141401953	66	6	48898
KLHL3	5	136953189	137071779	216	20	51836
AC073528.	12	77949297	77950568	4	1	54814
NDC80	18	2571510	2616634	109	12	50954
RP11-3B7.1	3	49297518	49298744	4	2	41299
TIGIT	3	113995760	114029135	56	15	46372
ZNF799	19	12500830	12512085	5	2	37672
SGSH	17	78180515	78194722	53	6	47230
NAPEPLD	7	102740223	102790007	61	10	48263
TPM3	1	154127784	154167124	51	8	48271
ID2	2	8818975	8824583	7	3	45822
FASN	17	80036214	80056208	39	8	40287
USB1	16	58033450	58055522	37	6	45957
AIM1L	1	26648350	26680621	86	11	49739
DKFZP779J	15	100255908	100258029	5	2	52815
GATM	15	45653322	45694525	66	4	49505
RP11-295K	11	1768897	1780281	31	6	44751
WDTC1	1	27561007	27635110	66	8	42224
WARS	14	100800125	100843142	108	6	47245
PRADC1	2	73455134	73460366	12	3	44337
AKNAD1	1	109358520	109506106	454	27	50974
SART3	12	108916357	108955176	120	9	49423
RNF11	1	51701943	51739127	31	5	47083
JMJD4	1	227918126	227923112	13	5	52379
FLJ27365	22	46449749	46509808	114	16	43060
AC110771.	4	187111913	187112626	4	2	46551
ZNF615	19	52494585	52511483	55	6	49474
KTN1	14	56025790	56168244	362	10	52915
DLEU1	13	50656307	51297372	1424	89	49453
SPZ1	5	79615444	79617661	10	5	49030
CRHBP	5	76248538	76276983	57	10	47070
ANKRD16	10	5903580	5931869	111	12	51020

BAD	11	64037302	64052176	16	6	45761
CEP152	15	49005125	49103343	138	15	46610
AC007377.	2	40488147	40490117	10	3	46711
AC005841.	12	2958397	2966213	16	3	49590
F5	1	169483404	169555826	283	21	50967
CYP21A2	6	32006042	32009447	12	5	42494
IL12RB1	19	18169805	18209754	118	13	51045
DCSTAMP	8	105351315	105368917	44	9	47236
SPRTN	1	231472850	231490769	28	3	49810
FHOD3	18	33877677	34360018	1070	78	50397
RP4-583P1	20	62369623	62371751	5	2	47409
MSMP	9	35752987	35756610	4	2	48225
CENPC	4	68337521	68411324	216	15	51223
PRDM4	12	108126643	108155049	66	8	47837
CCND2	12	4382938	4414516	51	12	42657
HMG1	21	40714241	40721573	25	4	51207
DIO1	1	54356912	54376759	71	8	52553
PACSIN1	6	34433916	34503006	131	21	46790
NUDT2	9	34329504	34343709	30	6	49181
GRP	18	56887400	56898006	38	3	48839
CTD-2162K	19	37264055	37267980	8	3	48209
EMC1	1	19542158	19578046	99	12	49374
NUDT13	10	74870217	74891586	37	1	48648
UNC13A	19	17712137	17799401	258	48	39908
CD300A	17	72462555	72480933	70	12	44926
GAPVD1	9	128024073	128129486	98	6	49046
ZNF384	12	6775643	6798738	11	3	42930
FHDC1	4	153857504	153900848	95	24	47306
SERTAD3	19	40946751	40950612	16	3	46778
RAPGEF5	7	22157856	22396763	693	47	50693
OR4A15	11	55135360	55136394	4	2	49527
AC096644.	1	220603286	220608023	24	5	46783
KRT26	17	38922490	38928414	11	4	51106
EXOC7	17	74077087	74117657	70	7	46267
C10orf95	10	104209594	104211300	2	1	52379
SRP68	17	74035184	74068734	48	3	45683
CMAS	12	22199108	22218608	31	5	48467
MFSD12	19	3538259	3574288	61	15	36998
MPHOSPH:	2	71357444	71377231	55	4	50039
CYP2C9	10	96698415	96749147	163	16	52733
CNTF	11	58390146	58393198	4	2	44611
ASH2L	8	37962760	38001594	15	5	36166
CTD-2210P	11	45792983	45793909	5	3	43960
OXGR1	13	97637973	97646984	16	5	47101
GBE1	3	81538850	81811312	408	25	47948
SVOPL	7	138279030	138386097	294	42	46469
FAM186B	12	49976668	49999422	26	5	40639
SGSM3	22	40766595	40806293	42	4	49437
HEATR5A	14	31760994	31889788	148	11	49963
LRRK1	15	101459420	101610317	478	35	50231
C2orf70	2	26785450	26802400	38	6	50160

UGGT1	2	128848774	128953251	223	15	45892
DENND5A	11	9160372	9286937	235	18	52664
CTD-2207C	19	7598481	7604945	14	3	44830
ANKH	5	14704910	14871887	378	37	49856
OR5M11	11	56309746	56310757	6	2	48918
RFPL1	22	29834572	29838444	11	2	53261
MYL12B	18	3261907	3278282	75	4	37853
MYO1C	17	1367392	1396106	76	22	42685
HSD17B12	11	43577986	43878167	552	24	49278
GNAI3	1	110091233	110136975	54	8	49552
C5orf56	5	131746328	131811736	174	16	50714
SPHKAP	2	228844666	229046361	605	25	53271
OR8B12	11	124412578	124413575	1	1	54014
RP11-62N2	4	133356957	133368390	18	5	50996
LHX2	9	126763949	126795580	67	8	48281
CHDH	3	53846362	53880417	89	17	47311
SHPRH	6	146185381	146285559	126	9	51242
SNAPC2	19	7985201	7988135	4	2	38307
PCK2	14	24563262	24579807	20	6	44717
ACAP1	17	7239848	7254797	22	7	41406
EBLN2	3	73110810	73112488	6	1	51838
RP11-712L	11	126164193	126174213	32	9	50855
GNE	9	36214438	36277053	139	14	50431
C2	6	31865562	31913449	106	20	47869
IFNAR2	21	34602206	34637980	101	11	50124
C9orf85	9	74526426	74600970	69	11	45225
LG11	10	95517566	95557916	106	17	45694
ZNF430	19	21203426	21242856	76	6	47440
SLC27A6	5	127873706	128369335	1785	42	51585
SDK2	17	71330523	71640228	809	93	46049
HSPA13	21	15743436	15755805	44	9	50043
SMTNL2	17	4487294	4511614	86	17	45736
ECI2	6	4115923	4135831	54	6	50859
GBGT1	9	136028340	136039332	30	7	41717
LELP1	1	153175919	153177596	1	1	50741
DDX60L	4	169277886	169458937	687	51	51012
CD47	3	107762145	107809872	84	15	48102
TAF6	7	99704693	99717464	17	5	47733
SYNGAP1	6	33387847	33421466	48	12	46840
CXCL11	4	76954835	76962568	40	3	47528
STRA8	7	134916731	134943244	38	4	49248
DCBLD2	3	98514785	98620533	229	19	51911
AC018512.	15	44075041	44075231	1	1	55273
HOXB7	17	46684594	46710934	67	14	50063
PTX4	16	1535887	1538982	25	6	44188
C1orf222	1	1853396	1935276	152	16	40876
C20orf112	20	31030862	31172876	187	16	46022
ANKRD2	10	99332198	99343641	20	3	48607
VGLL4	3	11597544	11762220	526	37	49877
KRT24	17	38854243	38860002	5	1	50813
GGCT	7	30536237	30591095	110	10	49607

PARP10	8	145051321	145086940	47	3	44672
SPCS2	11	74660292	74690076	42	7	49827
DGUOK	2	74153953	74186088	72	6	49584
PTK6	20	62159778	62168723	19	4	37336
WDFY2	13	52158644	52336171	196	25	49400
RYR2	1	237205505	237997288	2260	164	49343
APOL5	22	36113919	36125530	49	6	51844
C1orf159	1	1017198	1051741	83	7	42797
SEC13	3	10334815	10362862	77	12	49376
WBP1L	10	104503727	104576021	201	21	49327
PDIA5	3	122785909	122944074	446	41	49005
FAM86C1	11	71498556	71512282	47	5	43292
ZNF561	19	9715356	9732075	31	4	50070
NFATC2IP	16	28962128	28978418	13	4	41232
SERPIN8	18	61637159	61672278	77	19	42572
CYP2B6	19	41497204	41524303	84	9	49196
KIAA1045	9	34957484	34982541	41	10	45966
NUDT16L1	16	4743695	4745860	2	1	46672
VMP1	17	57784553	57919616	166	13	48772
COQ4	9	131084815	131096351	23	5	45240
NOLC1	10	103911933	103923627	12	3	45765
TFB1M	6	155578643	155635627	222	22	49462
HOMER1	5	78668459	78810040	244	20	46980
KCNV1	8	110975874	110988076	15	4	38167
POMP	13	29233241	29253062	42	6	47648
ZADH2	18	72907063	72921303	26	5	45548
FAM189A2	9	71939488	72007371	214	26	50292
PDCD4	10	112631565	112659764	53	11	48226
SPARCL1	4	88394487	88452213	178	13	50181
TTBK2	15	43030932	43213007	160	17	47574
TP53	17	7565097	7590856	55	11	47725
YBX1	1	43148098	43168020	32	9	48103
TBK1	12	64845660	64895888	77	10	49975
LBR	1	225589204	225616627	67	12	49648
FGF23	12	4477393	4488894	16	5	46532
COX15	10	101471601	101491857	27	5	52709
FEZ1	11	125315646	125366213	104	14	52037
ZBTB43	9	129567285	129600489	21	7	44511
LRRC37B	17	30334891	30380523	35	4	48199
MYO18A	17	27400528	27507430	186	18	49937
FAM184B	4	17630929	17783135	328	11	47355
ACADVL	17	7120444	7128592	10	3	46771
POLM	7	44111846	44122139	19	3	52142
CTNNBIP1	1	9908334	9970394	50	6	47907
UQCR11	19	1578338	1605444	19	3	42474
SLC22A18	11	2920951	2946476	85	18	46524
EHMT2	6	31847536	31865464	43	15	45915
MSH6	2	47922669	48037240	283	26	50533
RIC8B	12	107168373	107283090	146	18	50519
ZNF483	9	114287439	114340124	149	22	50753
UEVLD	11	18551156	18610294	145	15	52035

CCDC157	22	30752624	30774647	71	7	52160
C17orf53	17	42219274	42239844	25	4	46154
RCBTB2	13	49063095	49107369	28	7	41772
CLSPN	1	36185819	36235568	37	3	39461
FRMD8	11	65154070	65180996	30	8	48473
KRT3	12	53183469	53189901	15	5	49302
POLR3GL	1	145456236	145470388	1	1	33144
KMT2E	7	104654626	104754808	119	8	46789
STAR	8	38001167	38008783	2	1	32364
KCNG1	20	49620193	49639666	35	5	46457
C5orf45	5	179261436	179289173	64	10	47446
TTF2	1	117602925	117650075	90	17	48508
RAP2B	3	152880029	152886265	6	3	49239
NXPH1	7	8473585	8792593	959	53	46980
HEATR6	17	58120555	58156292	30	2	50611
TMOD1	9	100263462	100364030	231	38	50929
APOE	19	45409011	45412650	6	3	40065
CYYR1	21	27838528	27945603	291	47	47124
POU3F2	6	99282580	99286660	5	2	51118
KRT25	17	38904273	38911584	14	5	46176
SLC46A1	17	26721661	26734215	15	3	47101
N4BP3	5	177540444	177553088	25	6	47918
PPP1R37	19	45594654	45651335	139	11	51169
CCDC146	7	76751751	76958850	585	28	50325
ESCO1	18	19109242	19180845	59	5	48957
LBP	20	36974759	37005665	102	13	51295
MRPL40	22	19419425	19423598	13	3	49536
RSG1	1	16558195	16563657	12	4	45287
OVGP1	1	111956936	111970399	38	6	47977
BDH1	3	197236654	197300194	210	22	50942
LTB4R	14	24780656	24787242	8	3	46578
ATP1A1	1	116915290	116952883	44	4	39191
ZNF814	19	58360099	58400442	83	9	51146
GPR171	3	150915619	150920988	9	2	47834
LURAP1	1	46669006	46686933	20	6	48713
SGK3	8	67624653	67774257	202	8	45223
MEPCE	7	100026413	100031741	7	1	51073
C17orf98	17	36991341	36997708	20	6	49408
DNAJC6	1	65713902	65881552	393	26	48660
DEPDC4	12	100597447	100660857	113	15	47449
OLFML2B	1	161952982	161993644	120	21	47002
FGF1	5	141971743	142077617	264	33	44522
NAB1	2	191511472	191557492	90	12	48419
CNTN4	3	2140497	3099645	3616	269	49272
RDH11	14	68143518	68162531	26	6	52325
PDCD1LG2	9	5510545	5571282	141	26	46447
FAM20A	17	66531254	66597530	142	24	49731
CCDC127	5	196986	218330	70	7	52430
BUB1	2	111395275	111435691	27	3	41431
ZSCAN21	7	99647390	99662661	15	2	53269
IFT140	16	1560428	1662111	281	14	49057

KDM1B	6	18155560	18224084	247	29	50393
INPPL1	11	71934745	71950149	23	5	43873
GABRB2	5	160715436	160976050	591	35	49199
SNRPD2	19	46190712	46195827	6	2	46879
YIPF4	2	32502979	32541663	47	10	49513
RBM7	11	114270752	114284925	26	5	50598
TMEM143	19	48835613	48867494	94	12	49140
SAMD9	7	92728829	92747336	53	9	46742
AKR1D1	7	137687070	137802732	238	24	50308
TFIP11	22	26887191	26908471	50	12	46028
KRTAP5-4	11	1642188	1643368	3	2	49100
METTL5	2	170666591	170681441	47	9	49164
NUP155	5	37288239	37371283	114	10	51705
ZSCAN5C	19	56713670	56720821	32	7	44538
ZNF333	19	14800613	14844558	130	17	51738
RNASEK-C1	17	6915954	6920839	7	2	47415
PEMT	17	17408877	17495022	202	18	49799
JMJD6	17	74708919	74722866	16	4	48707
KLHL32	6	97372605	97588630	598	34	50634
DAPK3	19	3958451	3971121	22	4	44620
PRPF38A	1	52870236	52886511	7	2	47524
HBS1L	6	135281516	135424194	255	12	51423
CXCR6	3	45982425	45989845	12	3	49100
SLC2A2	3	170714137	170744539	73	6	47826
OR6K3	1	158686958	158687953	3	1	49566
BFSP2	3	133118839	133194066	225	34	44122
SIGMAR1	9	34634719	34637806	6	3	53053
C11orf49	11	46958240	47185936	258	14	48177
C8orf33	8	146277764	146281416	3	1	52239
RP11-176H	14	31803518	31926647	158	12	51187
TRAPPC11	4	184580420	184634745	158	14	51163
RACGAP1	12	50370706	50426919	82	4	47893
SIGLEC10	19	51913275	51921057	23	5	44247
EEF2K	16	22217603	22298554	118	12	46503
DDX31	9	135468384	135545788	147	18	50121
WDSUB1	2	160092304	160143310	181	13	45714
LPAR1	9	113635543	113800981	446	34	50156
KIAA1468	18	59854491	59974355	314	16	51382
ZNF12	7	6728064	6746554	38	9	46102
AVIL	12	58191159	58212487	19	6	45794
ZIC4	3	147103833	147124647	30	8	51892
C21orf58	21	47720095	47743789	65	13	51066
RDH14	2	18735989	18741946	12	6	42261
INPP1	2	191208196	191236391	92	7	48796
WDR1	4	10075963	10118573	145	13	50585
KAZALD1	10	102821598	102827888	9	4	51757
PGM1	1	64058947	64125916	182	29	49243
CDH26	20	58533471	58609066	141	19	43858
THAP3	1	6684926	6695646	26	4	49764
SLPI	20	43880880	43883205	8	2	46176
CCDC61	19	46498339	46524576	93	15	46236

BCL2L2	14	23767999	23780968	16	6	44566
FAM212A	3	49840687	49842463	1	1	38910
TCTEX1D1	1	67218142	67244470	70	9	50633
PRAMEF1	1	12851546	12856777	3	2	35220
GLIS2	16	4364762	4389598	35	12	36766
EXOC3	5	443273	472052	100	11	50004
ACTR3B	7	152456834	152552463	135	12	44210
Sep-12	16	4827670	4838522	34	4	50277
RP11-542C	17	7215980	7222493	16	5	42419
APOA1BP	1	156561554	156564091	12	1	45242
APBA1	9	72042446	72287222	508	28	47796
ZNF80	3	113953483	113956425	10	4	48220
PCDHB10	5	140571942	140575215	4	2	47377
ATP6V1A	3	113465866	113530903	72	3	50473
C9orf114	9	131581930	131592100	33	5	44679
RANBP3L	5	36248536	36302216	94	10	46242
C1orf194	1	109648573	109656479	26	5	46015
ATF2	2	175936978	176033110	180	12	51836
HOXA6	7	27185015	27190222	15	3	47138
PCDHA13	5	140261793	140391929	219	16	49096
ABCA2	9	139901686	139923367	27	6	41329
LIX1L	1	145477085	145501669	2	1	34146
WNK2	9	95947198	96082854	359	26	50376
TRIM50	7	72726535	72742085	11	3	44179
CCDC13	3	42734155	42814745	150	14	50638
MMD	17	53469974	53499353	56	8	50832
FAM175A	4	84382092	84444501	152	8	51899
TIPARP	3	156391024	156424559	64	11	50372
CARTPT	5	71014990	71016875	3	2	45792
VPS28	8	145649000	145653931	6	2	44845
ANKRD44	2	197831741	198175897	837	51	49034
RASSF5	1	206680879	206762616	167	24	50532
AMOTL2	3	134074716	134094321	28	5	45674
KIAA0586	14	58894103	59015216	92	19	47878
PAQR8	6	52226219	52272575	163	32	50118
SPP1	4	88896819	88904562	17	5	47687
PAX3	2	223064607	223163715	295	28	50329
SGSM1	22	25202236	25323545	452	54	47556
TSPAN17	5	176074388	176086058	32	4	45396
TAP2	6	32781544	32806599	218	28	48836
TUBA3C	13	19747910	19755992	58	5	50805
ECD	10	74889913	74928813	80	1	49678
USP40	2	234384166	234475428	155	8	50890
GPR85	7	112718386	112727833	25	10	46526
WDR77	1	111982512	111991998	15	5	47154
PPAP2B	1	56960419	57110974	437	41	48756
C18orf56	18	641320	658340	42	8	42406
KIAA0101	15	64657193	64679886	34	5	46963
TARBP1	1	234527059	234614849	384	38	50406
FCRLA	1	161676762	161684142	30	6	48337
PTGES3L	17	41120105	41132545	11	3	51361

FKBP2	11	64008475	64011604	3	2	44571
ZPBP	7	49890017	50160925	639	17	51039
PTPMT1	11	47586982	47595013	7	3	50451
MRPS14	1	174979925	174992561	21	6	48933
HEATR4	14	73945189	74025651	107	20	50070
RNASEK	17	6915736	6917851	2	1	48684
HAPLN2	1	156589086	156595517	8	2	45627
CD163L1	12	7499281	7632493	253	27	46861
GDF15	19	18485541	18499986	44	8	45635
ETNK2	1	204100190	204121307	43	15	47166
TCN1	11	59620273	59634048	11	6	45390
HHEX	10	94447945	94455403	9	3	47218
TMIE	3	46742823	46752376	22	6	49518
NENF	1	212606229	212619714	31	4	51819
TDRD1	10	115939029	115992063	111	9	52729
SPAG17	1	118496484	118727846	323	12	47658
RANGAP1	22	41641615	41682255	73	9	48765
RHBG	1	156339003	156355011	43	7	50199
BSN	3	49591922	49708978	135	11	48873
PFDN5	12	53689075	53693234	8	2	35406
MGP	12	15034115	15038860	6	1	51338
RBL1	20	35624752	35724398	100	13	48899
GSTA1	6	52656462	52668708	24	3	48318
MC2R	18	13882043	13915706	103	8	49863
RCAN1	21	35885440	35987441	441	24	52629
CLRN1	3	150643950	150690786	140	18	48837
TSRM	7	113091127	113091457	1	1	50758
APCS	1	159557615	159558655	2	1	46896
RAD9A	11	67159176	67165881	11	4	45418
PLA2G2A	1	20301925	20306932	12	5	46522
C7orf65	7	47694842	47701246	10	4	50835
SPECC1L-AI	22	24666866	24838324	294	17	39139
PET112	4	152591656	152682175	172	8	49912
NYNRIN	14	24867992	24888494	56	12	45906
HEATR3	16	50099852	50140298	98	7	52247
MAP2K2	19	4090319	4124126	67	10	40462
SLC39A2	14	21467414	21470030	6	2	47858
KISS1	1	204159469	204165614	19	4	51191
TMEM51	1	15479028	15546976	323	23	52741
PIGO	9	35088685	35096591	8	4	44421
ICAM5	19	10400657	10407454	17	5	47899
ZKSCAN1	7	99613204	99639312	39	8	50115
CLDN6	16	3064713	3070072	11	3	48850
GALNT1	18	33161081	33291798	300	11	52003
WNT5A	3	55499743	55523973	42	10	50177
C5AR2	19	47835404	47846606	9	4	40341
EIF4ENIF1	22	31832963	31892094	120	19	45774
CYP11A1	15	74630100	74660081	44	8	46403
METTL14	4	119606523	119636588	64	8	51263
STOX1	10	70587298	70655188	176	21	51264
SARDH	9	136528682	136605077	244	29	44398

GM2A	5	150591711	150650001	175	24	51081
UBA7	3	49842640	49851379	7	2	50652
COX8C	14	93813537	93814702	8	3	47953
AGAP1	2	236402733	237040444	1247	101	49349
MUC6	11	1012821	1036706	47	11	47982
GRIN2A	16	9852376	10276611	1599	45	49532
RASL11B	4	53728457	53733000	12	3	50926
TUBB	6	30687978	30693203	17	5	39948
CCDC102A	16	57546090	57570511	59	9	49872
TMEM14E	3	152057484	152058779	3	1	53198
PRDX5	11	64085560	64089283	4	2	50821
TRABD	22	50624344	50638027	50	10	44831
MAG11	3	65339200	66024509	2077	144	47721
RSU1	10	16632610	16859527	630	55	49270
FASTKD2	2	207630081	207657233	57	9	49156
CAPRIN1	11	34073230	34122703	107	2	52932
ZSCAN12	6	28346732	28367511	59	7	52398
ARHGEF25	12	58003963	58013162	16	5	50730
ALG8	11	77811982	77850706	199	8	50884
SULT6B1	2	37394963	37423741	221	14	50718
METTTL23	17	74722912	74730018	4	2	41896
POLRMT	19	617223	633597	51	9	39399
ADAMTSL5	19	1505017	1513603	8	3	36863
PYGM	11	64513861	64527769	19	2	45032
IRF9	14	24630262	24635774	6	3	49375
ADAM12	10	127700950	128077024	1239	96	50386
MINA	3	97660662	97691301	33	9	46294
ALDH8A1	6	135238528	135271260	46	5	47800
CDC7	1	91966408	91991321	42	8	49586
EGR1	5	137801179	137805004	3	2	46014
CORIN	4	47596015	47840123	568	31	51697
NOC3L	10	96075004	96122716	111	11	51117
ACACA	17	35441923	35766909	347	20	45586
MFAP2	1	17300997	17307330	12	4	45980
SCPEP1	17	55055466	55084129	52	8	49246
TMEM239	20	2795614	2800930	10	4	43579
SLC2A10	20	45338126	45364965	48	6	49059
IVNS1ABP	1	185265520	185286461	18	5	40653
TRMT1	19	13215716	13228381	13	6	44167
CENPM	22	42334725	42343168	25	3	48780
ELMOD2	4	141445312	141474924	38	6	51087
FBF1	17	73905655	73937221	44	7	48136
ZNF750	17	80787311	80798454	32	6	50502
TDRD10	1	154474695	154520623	142	8	51914
FKBP15	9	115923286	115983641	218	21	52219
IVL	1	152881021	152884362	14	1	43479
MANBA	4	103552660	103682151	168	12	50532
CCDC53	12	102406705	102455927	80	11	51218
MOSPD3	7	100209725	100213007	5	1	49804
AC008964.	5	39105358	39107350	2	1	47080
AKR1CL1	10	5196335	5244449	180	17	50985

BCL2L15	1	114420790	114430169	16	5	47852
NXNL2	9	91150016	91199189	71	7	37227
TAS2R7	12	10954131	10955226	1	1	45080
SPATA25	20	44515128	44516274	1	1	36870
KL	13	33590207	33640282	177	13	51256
SLC25A47	14	100789674	100796715	20	5	48940
NR1D1	17	38249040	38256978	12	4	41961
WFDC6	20	44162835	44168134	8	3	49768
RUFY3	4	71569921	71673032	202	5	45302
SYCP1	1	115397424	115537991	279	17	53203
LSM10	1	36856839	36863493	29	4	50190
ZNF32	10	44139307	44144304	15	3	51451
SRSF12	6	89805678	89827800	60	8	48378
VWDE	7	12370511	12443567	285	19	50885
SYT6	1	114631913	114696541	228	49	48579
HPGDS	4	95219686	95264027	71	7	49317
SMURF1	7	98625061	98741723	162	26	46022
CXCR5	11	118754475	118768508	27	9	43178
YWHAB	20	43514317	43537173	36	4	53312
GRSF1	4	71681499	71705662	34	3	39178
DHCR7	11	71139239	71163914	53	5	42287
IYD	6	150690028	150727105	198	18	47068
RP11-145E	9	21802635	22032985	367	39	47495
TCF4	18	52889562	53332018	644	45	49095
CEP128	14	80943330	81425861	1276	52	49135
ANKS3	16	4746513	4784379	94	9	47191
COPS7B	2	232646381	232673963	39	5	47915
NMRK2	19	3933101	3942414	18	6	35979
CABLES1	18	20714528	20840431	201	29	45220
BARD1	2	215590370	215674428	393	29	50210
GAS6	13	114523522	114567046	163	18	41495
SSH1	12	109176466	109251366	88	15	45411
DNAJC1	10	22045466	22292698	292	12	41480
ADAM20	14	70989075	71001732	31	5	45633
ZNF740	12	53574484	53584596	19	3	49751
CST5	20	23856572	23860387	15	3	52102
CCDC14	3	123616152	123680564	64	7	44995
PPP2R1A	19	52693292	52730687	137	16	50685
ZNF117	7	64432154	64467062	103	7	50190
SMARCD1	4	95128762	95212443	143	8	50248
BBS7	4	122745595	122791652	80	12	45547
ASTE1	3	130732719	130746493	23	3	46876
C3orf55	3	157261035	157395538	435	33	50719
CTD-2370N	17	29632231	29645849	15	1	47550
TIE1	1	43766664	43788779	25	4	45683
FUT3	19	5842899	5851485	23	5	42791
RPS19BP1	22	39925098	39928860	3	1	46883
ZBTB14	18	5289018	5297052	20	4	49594
MRPL52	14	23299088	23304246	20	6	45920
RP11-382J1	8	71520812	71575514	143	13	50545
TBCEL	11	120894781	120961484	90	8	51908

G0S2	1	209848765	209849733	2	1	44972
SLC3A2	11	62623518	62656352	24	5	48252
TBX19	1	168250278	168283664	82	14	46836
TCOF1	5	149737202	149779871	68	10	50077
PRRC2B	9	134269480	134375584	165	11	48109
SERPINA5	14	95027779	95059457	164	20	51183
HPD	12	122277433	122301502	51	6	50750
CHST12	7	2443223	2474242	47	7	50063
ZNF853	7	6655248	6663921	24	6	49386
WDR90	16	699311	717833	66	4	40014
IGF2BP1	17	47074774	47133012	83	12	49502
MYCN	2	16080686	16087129	5	2	45890
RUNX2	6	45295894	45632086	814	57	50394
DDX28	16	68055179	68057770	2	1	46503
RNF185	22	31556168	31603005	95	11	46656
RCL1	9	4792869	4885917	293	26	47360
ZNF670	1	247108849	247242113	509	21	50167
USP31	16	23072727	23160591	191	11	48941
NUP205	7	135242667	135333505	293	11	49666
PLA2G4E	15	42273780	42343388	302	30	50614
CD97	19	14491313	14519537	33	12	36782
KIF3C	2	26149471	26205618	134	19	46672
RP11-210N	15	80637195	80695917	300	19	52465
OR14I1	1	248844628	248845629	5	1	49764
NFIC	19	3359561	3469215	292	33	42456
XRCC1	19	44047192	44084625	108	16	49238
PHOSPHO2	2	170550975	170558218	9	3	53140
MDM2	12	69201956	69239214	63	10	46865
CCNG1	5	162864575	162873157	8	3	50500
ADRB2	5	148206156	148208196	7	2	48355
PPP2R2A	8	26149007	26230196	175	26	49668
ZNF319	16	58028572	58034357	11	3	44520
STX5	11	62574369	62599560	36	3	50850
ERCC6	10	50663414	50747584	157	19	48818
TRPC6	11	101322295	101743293	1533	47	50903
COG4	16	70514471	70557468	44	6	47786
CTC1	17	8130191	8151362	48	9	47370
GNG4	1	235710987	235814054	269	26	47446
CNDP1	18	72201675	72254448	141	32	45910
NRROS	3	196366557	196388875	105	30	42685
KRT79	12	53215194	53228079	25	8	48172
OPRM1	6	154331631	154568001	616	47	49587
NEGR1	1	71861623	72748417	1552	73	48260
LOR	1	153232176	153234598	5	3	46878
MAU2	19	19431490	19469563	67	8	47995
C22orf46	22	42084943	42094140	4	1	42934
HIBCH	2	191054461	191208919	373	10	50174
WDR86	7	151072995	151107813	113	26	45728
HIC2	22	21771693	21805752	9	2	38657
MTRNR2L6	7	142374104	142375550	6	1	51313
SLFN5	17	33570055	33600674	86	11	50434

HSPBAP1	3	122458846	122512671	154	16	51245
KEL	7	142638201	142659768	39	5	39597
PCDHB16	5	140560980	140565793	17	4	48193
ZNF407	18	72265106	72777627	792	30	49766
DVL1	1	1270656	1284730	6	1	38895
FBXW5	9	139834887	139839148	3	1	41709
C1RL	12	7242183	7261869	54	11	50981
RPS6	9	19375713	19380252	10	3	46908
KIF2A	5	61601989	61833076	414	17	51716
DCLK2	4	150999426	151178609	453	32	50014
TDO2	4	156775890	156841558	158	16	45258
CERS5	12	50523575	50561288	51	5	50610
ADAM19	5	156822542	157002783	578	30	51521
SEMA4G	10	102729275	102745628	23	4	49640
AKR1C4	10	5237425	5260912	114	9	49151
AC022498.	3	187896331	187898598	11	4	45935
TMUB2	17	42264338	42269099	9	3	47678
GAR1	4	110736666	110745893	18	3	47428
NUPL2	7	23221446	23240630	53	5	50662
BCAS4	20	49411431	49493714	237	26	46711
GNPTAB	12	102139275	102224716	163	19	49446
SLC25A45	11	65142663	65151172	7	3	43101
DEFB127	20	138111	139804	10	1	48020
GVQW1	9	32566787	32568619	5	2	52947
ZNF396	18	32946661	32957301	16	4	42513
NUDT22	11	63993413	63998158	6	3	43374
PDHA2	4	96761239	96762625	1	1	55623
SOX18	20	62679076	62680994	1	1	47595
AHDC1	1	27860546	27930942	26	5	44374
CHD3	17	7788124	7816078	33	9	45086
LEPR	1	65886248	66107242	508	20	48686
RNASEH2C	11	65482367	65488418	14	4	50433
DKFZP761K	2	6111712	6114374	8	3	49894
SYT1	12	79257773	79845788	1083	49	49979
TRADD	16	67188083	67194201	3	1	50188
RND1	12	49250928	49259681	11	5	45392
MYLK2	20	30407111	30422492	38	5	48980
GCNT6	6	10633993	10647501	7	3	44086
TTC18	10	75013517	75118617	235	2	54267
IGDCC4	15	65673802	65715410	69	14	44267
RP11-1167.	11	65834748	65837090	3	2	44398
PC	11	66615704	66725847	185	20	47232
TXNDC17	17	6544078	6547861	15	4	50425
COX14	12	50505762	50514240	17	2	52859
HIST1H2AL	6	27833034	27833606	2	1	51636
SYNGR2	17	76164639	76169608	16	4	47495
MMP19	12	56229217	56236750	7	3	41478
ENPP5	6	46126924	46138708	27	4	52686
LHFPL3	7	103969104	104549001	1524	88	51008
LIPM	10	90562487	90580303	37	11	48719
POLR3A	10	79734907	79789303	60	9	45803

ACOT13	6	24667263	24705293	95	14	50578
S1PR4	19	3172344	3180329	8	3	36265
OPTN	10	13141449	13180291	82	15	49113
DGKA	12	56321103	56347811	16	4	46887
MCCD1	6	31496494	31498009	19	6	48867
FSTL4	5	132532147	132948255	1041	102	49080
SLC38A7	16	58699013	58719008	61	10	50871
SUSD1	9	114803065	114937688	305	29	50449
RTCA	1	100731763	100758325	61	5	46001
AC002310.	16	30545548	30569600	24	7	47509
ASB10	7	150872785	150884919	33	6	49622
AL161784.	9	124103625	124110410	11	5	42924
TBXA2R	19	3594504	3606838	36	6	47002
SP9	2	175199674	175203220	14	5	49259
AC068039.	2	172560844	172567314	8	3	49126
ZNF239	10	44051792	44070066	29	3	52917
IFI44	1	79115481	79129763	22	5	50289
IL6R	1	154377669	154441926	134	14	50407
ZBTB24	6	109783797	109804440	29	5	50132
TMEM11	17	21100593	21117937	36	7	47942
POLR2D	2	128603840	128615731	34	6	52746
SYCP2L	6	10748027	10979553	488	47	49254
RP11-386G	8	56047763	56054918	19	6	49673
RABL2B	22	51205929	51222091	9	2	33854
TEX37	2	88824169	88829102	11	3	54392
ANXA5	4	122589110	122618268	110	16	48980
TAF10	11	6627526	6633898	16	3	48456
DENND6B	22	50747459	50765489	41	5	43890
ZSCAN5A	19	56732681	56879752	362	51	45485
ACCS	11	44087475	44105772	57	11	51378
RPS7	2	3622795	3628509	23	5	48458
EDAR	2	109510927	109605828	202	25	43730
CCDC97	19	41816094	41830788	25	2	52195
AXDND1	1	179334855	179523870	977	22	53662
FUCA2	6	143815948	143832827	27	3	51979
EME2	16	1823208	1831709	13	3	45622
MPPED1	22	43807202	43903728	311	36	48634
NIPAL1	4	47916159	48042188	361	19	49938
TGFB2	1	218519577	218617961	181	29	46082
SP3	2	174771187	174830430	176	19	50307
RP11-644F!	12	56109820	56118487	11	5	42753
C1orf229	1	247273462	247275719	8	3	53273
CASKIN1	16	2227184	2246526	16	4	40063
KLK1	19	51322404	51327043	16	4	47620
CTDNEP1	17	7146910	7155810	6	2	52087
SH3BP2	4	2794750	2842825	181	26	47878
OR6A2	11	6815756	6817128	4	2	49361
CLUAP1	16	3550924	3589048	52	11	45529
METTL9	16	21608539	21668794	50	9	49476
SLC28A1	15	85427885	85518876	372	45	49169
C11orf44	11	130542851	130587247	57	10	40290

ATP5F1	1	111991486	112005395	24	5	48477
SLC4A2	7	150754297	150773614	47	10	47535
NEK4	3	52744800	52804965	110	9	45379
C16orf71	16	4784273	4799397	50	5	48936
ALKBH7	19	6372444	6375042	6	2	46269
OR4A5	11	51411378	51412448	6	2	43532
PCLO	7	82383329	82792246	1017	42	50534
GUK1	1	228327663	228336685	10	3	47998
POLR3G	5	89767565	89810370	83	13	47993
TCTN2	12	124155660	124192948	148	7	47963
SGCB	4	52886872	52904648	16	3	42703
ATF7IP2	16	10420291	10577495	406	27	48377
GUCY2C	12	14765576	14849519	64	12	45878
IARS2	1	220267444	220321380	102	12	50876
FEZF1	7	121941448	121950745	15	4	42610
KATNAL1	13	30776767	30881621	305	28	50725
AL590867.1	6	153552455	153668623	393	27	51598
ZNF91	19	23487793	23578362	232	10	49619
AL162424.1	9	125148344	125148928	2	1	51605
CCAR1	10	70480769	70552134	129	14	49035
LALBA	12	48961467	48963849	3	2	44831
CCDC71L	7	106297211	106301442	8	3	49774
RNF152	18	59475296	59561480	265	23	52140
FOLR4	11	94038759	94040887	7	1	33770
KLK2	19	51364824	51383823	111	17	48478
NID1	1	236139130	236228462	196	23	49050
ADAMTSL2	9	136397286	136440641	123	15	38310
FSIP2	2	186603355	186698017	186	8	52965
CSNK1G1	15	64457716	64648442	281	12	49514
ACTR3C	7	149941005	150020814	113	10	41610
LHX5	12	113899839	113910085	19	4	38545
CASP4	11	104813593	104840163	57	9	49402
MFF	2	228189867	228222550	95	10	51940
ZFP36L2	2	43449541	43453748	7	3	49914
L3MBTL1	20	42136320	42179590	105	13	51046
TGIF1	18	3411606	3458409	111	21	43489
ZNF259	11	116648436	116658766	24	7	48757
CLDN3	7	73183328	73184600	2	1	43844
PEAK1	15	77400471	77712486	405	19	50883
CYTH2	19	48972289	48985571	10	3	37589
LHB	19	49519237	49520338	3	1	49830
LRRC52	1	165513244	165533198	77	12	49275
FOXB1	15	60296421	60353929	88	13	49937
TNFRSF10B	8	22877646	22926692	136	23	47681
RP11-12J1C	10	126305649	126480296	289	20	50891
VPS37D	7	73082155	73086442	8	2	49143
RNF126	19	647526	663277	36	11	35685
FAM47E	4	77135193	77204933	307	18	52257
C17orf105	17	41857803	41864980	18	2	52353
DDI2	1	15943995	15995539	102	5	50507
DSCR4	21	39323728	39493454	362	40	49385

OR6C1	12	55714346	55715408	4	1	48593
FGF22	19	639879	643703	11	3	34412
NME6	3	48334754	48343175	14	2	53700
FLJ20373	2	102508955	102511150	3	2	46154
ZNF789	7	99070464	99101273	26	6	45261
PPIB	15	64448011	64455404	16	5	45669
TMEM107	17	8076555	8079717	10	3	43078
ZSCAN20	1	33938246	33962107	43	5	51189
SEC24A	5	133984479	134063513	51	12	47316
PROSER1	13	39584003	39612252	59	6	51748
BRSK1	19	55793440	55823901	74	11	48170
SRGAP2	1	206516200	206637783	134	11	44957
RNPC3	1	104068313	104097861	39	8	45659
RGS5	1	163080911	163291577	739	46	52004
FANCD2	3	10068098	10143614	165	5	49442
GIPC1	19	14588572	14606944	62	12	46419
MOGAT2	11	75428864	75444003	27	6	49739
ZNF22	10	45495923	45500774	16	4	48255
PTPN1	20	49126891	49201299	145	17	47490
SAA4	11	18252896	18258440	11	3	43687
EMC6	17	3572109	3572962	1	1	40252
EDDM3A	14	21214051	21216539	14	3	50884
ACADS	12	121163538	121177811	29	6	49971
MOCS3	20	49575363	49577820	1	1	49036
CHRM3	1	239549865	240078750	1139	85	47603
OR52B1P	11	6173006	6173818	2	1	47375
BARX2	11	129245835	129322171	242	42	50013
TBC1D1	4	37892708	38140796	732	68	50055
NPRL3	16	134273	188859	97	12	41627
RFPL3	22	32750872	32757148	54	6	44064
LRRC38	1	13801445	13840543	130	25	41914
FAM96A	15	64364758	64386217	47	5	47785
CNBD2	20	34556512	34618622	68	6	49507
H6PD	1	9294834	9331396	82	13	49339
MYCL	1	40361098	40367928	10	5	46219
DBI	2	120124497	120130126	24	5	53071
SMC5	9	72873937	72969804	209	16	52019
ABCG1	21	43619799	43717354	316	44	48947
CHIA	1	111833484	111863188	192	20	51928
RPL4	15	66790355	66816870	80	12	51500
RFX3	9	3218297	3526004	549	22	46792
PPP1R12A	12	80167343	80329240	136	4	36816
CRYL1	13	20977806	21099996	379	36	50582
LCA5L	21	40777770	40817731	100	7	52067
REN	1	204123944	204135465	39	8	51389
TSR3	16	1399241	1401912	6	2	40680
RPA1	17	1732996	1803376	176	16	50656
MED1	17	37560538	37607539	69	6	47395
EPAS1	2	46520806	46613836	231	33	45093
VWC2L	2	215275789	215443683	400	28	48264
SAMD9L	7	92759368	92777682	28	8	46142

ARMC3	10	23216953	23326518	240	22	49299
S100B	21	48018875	48025121	28	7	50881
KLHL5	4	39046659	39128477	226	9	52927
SS18	18	23596578	23671181	119	11	49048
TNS1	2	218664512	218867718	467	68	47195
KIF27	9	86451613	86536342	127	9	53006
G3BP1	5	151150606	151192346	73	9	50794
ZIK1	19	58089824	58105145	25	4	52192
RAN	12	131356424	131362223	11	3	53101
MOK	14	102690837	102771537	187	15	47975
CEP192	18	12991361	13125051	358	18	50328
RBM18	9	124999903	125027118	51	9	37799
GRIA2	4	158125334	158287227	221	21	49277
C1orf162	1	112016414	112021134	6	2	50579
PKP4	2	159313476	159539391	524	17	50309
C19orf57	19	13993161	14017265	59	2	44893
B4GALT5	20	48249482	48330415	147	12	49415
COMMD8	4	47452885	47465736	22	5	50629
OR2S2	9	35957105	35958151	3	1	52972
CTC-260F2I	19	19627036	19646885	33	3	50803
OR13C4	9	107288534	107289490	1	1	43216
MXRA7	17	74668633	74707098	114	10	50537
GSPT1	16	11961985	12009939	71	8	47526
SAMD4B	19	39833036	39876350	85	8	44738
KBTBD6	13	41701705	41706882	2	1	48070
DTWD2	5	118173017	118324240	247	30	48476
REEP3	10	65281123	65384883	208	20	49182
IDO1	8	39759794	39785963	40	7	50619
FAM69A	1	93307724	93427057	141	5	52342
IGFN1	1	201159953	201198080	127	20	49767
ARID3C	9	34621376	34628104	10	3	51589
C9orf16	9	130922539	130926207	2	1	35273
RASSF4	10	45454855	45491339	85	13	50465
NAA20	20	19997760	20014299	29	6	47259
ADPRHL2	1	36554476	36559533	1	1	47999
PIEZO1	16	88781751	88851619	308	33	42381
GBP6	1	89829617	89852020	68	12	50362
EQTN	9	27284656	27297137	51	9	48785
SLC20A2	8	42273993	42397069	186	24	44747
CCDC134	22	42196683	42222303	43	6	48540
GTF3C1	16	27470876	27561234	92	8	47478
METTL8	2	172173919	172291312	196	23	50546
PRAMEF12	1	12834984	12838049	5	2	49307
DNAH8	6	38683117	38998301	1024	43	51121
HYAL4	7	123469037	123517532	71	15	50640
CTNNB1	3	41236328	41301587	74	9	47217
HERC1	15	63900817	64126141	478	20	45234
RAB3IL1	11	61664773	61687741	42	12	46736
AMPD2	1	110158726	110174673	32	7	48899
NKAIN4	20	61872136	61904046	143	20	47004
C11orf1	11	111749659	111756699	11	1	52297

ZFAT	8	135490031	135725292	706	42	51538
TSPAN8	12	71518865	71835678	797	47	49895
TSEN2	3	12525931	12581122	177	12	41814
C2orf61	2	47272677	47382517	468	51	47521
CTD-2116N	15	64472547	64665980	290	13	49303
C1orf143	1	218683438	218699320	54	4	51322
LGR5	12	71833550	71980090	476	28	50258
KCNJ11	11	17407406	17410878	10	3	48679
SYT14	1	210111538	210337636	278	15	49697
GPR176	15	40091233	40213093	200	25	49276
TRIM9	14	51441980	51562779	446	40	51113
ZNF684	1	40997233	41013841	53	7	50263
MLKL	16	74705753	74734858	67	17	46949
KCND3	1	112313284	112531777	614	74	49533
NRL	14	24549316	24584223	37	9	42004
MAPKAP1	9	128199672	128469513	379	20	46564
DNASE1L3	3	58177984	58200424	67	10	51143
PURB	7	44915896	44924960	4	2	43766
STOML3	13	39540062	39565203	78	13	51196
PDXDC1	16	15068448	15233196	123	15	46949
SLC8A2	19	47931274	47975425	82	11	46500
JTB	1	153946745	153950164	2	1	51293
MRPS10	6	42174539	42185603	47	4	50103
MARCH4	2	217122588	217236750	250	29	51234
DHX29	5	54552073	54603550	75	9	45324
C9orf173	9	140145713	140147934	1	1	37766
MKLN1	7	130794855	131181395	853	79	50516
TMEM213	7	138482695	138522846	94	8	51863
OR2W3	1	248031277	248060449	96	16	47768
LRRN3	7	110731062	110765510	53	7	45456
OTOF	2	26680071	26781566	274	29	47021
FAM151A	1	55074855	55089229	41	11	44717
SLC28A2	15	45544428	45568149	59	2	46061
OR5B12	11	58206593	58207646	3	2	47840
FBXO43	8	101145588	101158028	20	3	52266
CLCN1	7	143013219	143049176	82	15	47558
SCN9A	2	167051695	167232503	510	39	49388
CD247	1	167399877	167487847	231	46	46257
SEMA4B	15	90703836	90772911	210	17	50596
QRICH1	3	49067140	49131796	44	8	48508
RELL1	4	37592422	37687998	286	37	47552
GLCE	15	69452923	69564556	158	11	49967
HAPLN4	19	19366450	19373605	15	2	49959
REC8	14	24641062	24649463	17	4	45235
SYDE2	1	85622556	85666729	109	11	50646
MND1	4	154265801	154336270	183	19	47918
MTFR1	8	66556969	66683496	288	17	48983
RAD51AP1	12	4647950	4669214	26	5	51742
IL7	8	79587978	79717758	263	16	48246
KIF20B	10	91461367	91534700	207	8	52147
CTXN3	5	126984736	126994322	22	8	46123

TDRKH	1	151742583	151763892	59	5	50635
HERPUD2	7	35672269	35735181	124	13	52649
P2RX4	12	121647660	121671909	80	10	52334
LDLRAD3	11	35965531	36253686	834	85	48985
KLRF1	12	9980077	9997606	32	4	50419
SLC25A12	2	172640880	172864766	466	27	46995
PSIP1	9	15464064	15511017	93	11	49460
PIN1	19	9945933	9960358	21	4	50215
BSX	11	122848278	122852428	6	2	43083
LDHA	11	18415935	18429972	42	4	50623
SLC22A8	11	62756626	62783311	37	14	43385
KIAA0141	5	141303373	141321612	34	4	48374
SNRNP35	12	123942188	123957701	25	4	43191
SPOCK1	5	136310987	136934068	1534	83	48839
C3orf27	3	128290843	128294929	12	5	49679
SEMA6A	5	115779312	115910630	395	65	47749
ABTB2	11	34172535	34379555	562	78	47347
FOXJ2	12	8185299	8208099	38	7	46709
GAL3ST4	7	99756867	99766373	11	3	51647
INPP5F	10	121485609	121588652	202	15	50292
PTN	7	136912088	137028611	273	35	48603
RETN	19	7733930	7735334	2	1	35877
PLK1	16	23688977	23701688	27	5	47992
CSGALNAC	10	43633934	43680756	100	11	53638
CCKAR	4	26483022	26492084	24	5	45908
CRTAC1	10	99624757	99790585	275	32	49241
GLS2	12	56864736	56882198	15	3	49786
PLA2G4A	1	186798085	186958113	448	37	47788
CRNKL1	20	20015012	20036690	71	9	45322
CBR3	21	37507210	37518864	50	6	52969
SF3B3	16	70557691	70608820	54	6	48321
HOXC11	12	54366910	54371427	5	1	47701
IDI1	10	1085848	1095110	20	6	50162
CHMP1A	16	89710839	89724253	36	7	47202
ZYX	7	143078173	143088204	24	7	45680
RIOK1	6	7389729	7418270	58	8	46884
GABARAPL1	12	10365057	10375727	24	8	44668
ARHGAP11	15	32907345	32932150	32	7	42316
TEKT1	17	6692452	6735080	152	15	52679
IFITM1	11	313506	315272	1	1	42407
RCC1	1	28832455	28865812	62	7	47131
UGT2A2	4	70454135	70505360	214	18	52272
LARP7	4	113558120	113578748	35	9	49692
MARCH7	2	160569000	160627538	199	15	50770
OBSCN	1	228395831	228566577	420	20	50505
PDE1B	12	54943134	54973023	72	18	45826
CPEB4	5	173315283	173388979	164	15	50742
HSPG2	1	22148738	22263790	308	26	45461
EEF1D	8	144661867	144681711	76	9	47612
UNC79	14	93799565	94174222	739	27	48615
UQCRB	8	97238148	97247862	16	3	49782

ZNF276	16	89786808	89807311	97	13	47617
NT5DC3	12	104164231	104234975	303	17	52490
NUDT7	16	77756411	77776157	121	16	49098
FAM131C	1	16384264	16400127	46	5	45921
DNAAF2	14	50091892	50101948	30	4	48636
EIF3G	19	10225693	10230596	11	3	42572
TNFAIP8L3	15	51348795	51397473	99	12	53567
HMGA1	6	34204650	34214008	12	4	46313
LPPR1	9	103790991	104087417	784	50	48650
BLMH	17	28575218	28619074	59	9	49557
TRMU	22	46726772	46753237	47	6	48202
AARD	8	117950438	117956726	9	2	48121
ZNF69	19	11998599	12025144	42	4	46735
ANO8	19	17434032	17445638	21	6	48922
MAB21L1	13	36047926	36050832	2	1	48049
TNFSF4	1	173152873	173176452	53	8	50475
MRPS30	5	44809027	44820530	13	2	49221
ITGAE	17	3617922	3704537	203	24	46730
DOK2	8	21766384	21771371	8	3	50797
SERPINA10	14	94749650	94759608	27	6	48514
KCNG2	18	77623668	77660184	124	15	46481
WRB	21	40752170	40800454	93	8	51566
UPF3A	13	115047059	115071283	52	10	49194
GLCC1	7	8008425	8133902	295	16	52407
ALOX5AP	13	31309645	31338556	111	16	50100
TJAP1	6	43445261	43474294	54	5	44356
EPN2	17	19118928	19240028	50	5	41908
CFB	6	31895475	31919825	51	9	48404
CTD-2203A	5	51303865	51376821	214	11	52553
FKRP	19	47249303	47280245	80	11	49728
AC092964.	3	172034218	172039513	7	3	47403
ZNF320	19	53367043	53400946	113	13	49118
C14orf182	14	50448430	50474238	81	13	50156
GALR1	18	74962505	74980858	80	15	50331
MS4A1	11	60223225	60238233	29	5	49935
RHOA	3	49396578	49450431	81	8	49573
SAA2	11	18260770	18270190	20	8	42519
GNG13	16	848041	850733	7	1	36227
GATAD1	7	92076767	92088150	11	4	48605
IREB2	15	78729773	78793798	123	11	47957
PCMTD2	20	62887094	62926855	73	8	47322
ABCA6	17	67074843	67138029	95	8	48039
ANKRD53	2	71205510	71212626	22	6	44187
MARCH10	17	60778675	60885705	189	13	47254
NCK1	3	136581050	136668665	170	6	51082
OR2T8	1	248084320	248085258	1	1	34049
POP1	8	99129525	99172062	176	16	51687
LRRC3	21	45875369	45878739	6	2	43103
PPP1R13B	14	104200089	104313927	205	10	50911
RFPL4AL1	19	56280507	56284545	6	2	51819
INPP4B	4	142944313	143768585	1967	73	50127

CDCA3	12	6953957	6961230	4	1	42913
SPRR3	1	152974223	152976332	14	2	50320
MCUR1	6	13786789	13814800	46	12	49506
NKG2-E	12	10564911	10588600	13	4	50864
LAT	16	28996147	29002104	5	2	43829
PLSCR5	3	146294342	146324003	151	14	53350
OR6C68	12	55886147	55887100	3	1	52093
RPL17-C18	18	47008051	47017956	27	7	52111
RCBTB1	13	50106082	50159719	247	15	48871
CCDC25	8	27590835	27630170	127	10	52649
CCL15-CCL	17	34310692	34328660	69	8	49772
B4GALNT4	11	369796	382116	37	6	43117
PCDHB17	5	140535577	140538639	3	1	46061
SLC35E4	22	31031639	31065003	109	22	45539
ASIC3	7	150745379	150749843	7	4	47713
PMS2	7	6012870	6048756	103	17	50076
PRNT	20	4711928	4721314	44	5	52151
DOK7	4	3465033	3503200	247	31	47905
ASCL2	11	2289725	2292182	6	2	46047
ENY2	8	110346553	110358182	16	5	51728
ZFYVE20	3	15111580	15140670	57	4	51649
CPEB2	4	15004298	15071777	143	16	47486
ZNF517	8	146024261	146036554	16	4	45641
GLRB	4	157997209	158093242	260	16	47240
IPO8	12	30781922	30848920	187	14	51476
C11orf80	11	66511922	66610987	73	13	46388
MAP3K10	19	40697651	40721482	26	6	45832
RAB27A	15	55495164	55611311	357	31	50593
EIF2B5	3	183852826	184402546	1623	142	48381
UBBP4	17	21729601	21731762	4	1	48664
EHBP1	2	62900986	63273622	351	25	48981
CHST5	16	75562433	75569145	19	4	44762
GTF2I	7	74071994	74175026	77	8	43362
C8orf34	8	69242957	69731257	1260	76	50116
SMIM17	19	57154513	57167134	44	5	51588
CYTH1	17	76670130	76778379	187	14	45598
ENTPD5	14	74424713	74486102	203	19	50479
RNASEH2B	13	51483814	51544592	86	13	51269
SLC25A52	18	29339525	29340843	2	1	41264
CAPS2	12	75669759	75784708	174	17	51404
ELP3	8	27947190	28048673	197	16	46460
WDR66	12	122355768	122441833	198	19	45917
MYO1F	19	8585674	8642461	92	15	41556
LAMP1	13	113951556	113977987	9	5	34355
HIST1H2BC	6	26115101	26124154	25	5	50941
PNKP	19	50364461	50371166	10	3	46733
MEIS2	15	37181406	37393504	387	59	48365
SKP2	5	36152091	36184421	93	12	44188
FZR1	19	3506271	3538328	50	5	40391
RP11-144F	12	106889736	107168696	552	40	50026
RP1-2705	1	32930658	33066393	236	9	51660

TXNRD1	12	104609557	104744061	385	26	51276
CCDC116	22	21987005	21991616	9	3	38230
AL031590.	22	39656865	39657063	1	1	52682
SLC25A13	7	95749532	95951459	236	13	48644
IRGM	5	150226085	150280298	173	6	48894
PLD5	1	242246288	242687998	1398	91	49930
POP7	7	100303676	100305118	3	1	54014
CYB5R1	1	202930997	202936408	10	3	45163
SARS	1	109756540	109780791	33	8	50128
AC104534.	19	39308111	39330818	56	8	47548
NPHP1	2	110879888	110962643	109	7	45141
GSTA5	6	52696453	52710893	34	5	49065
MRE11A	11	94152895	94227074	133	13	50898
FAM43A	3	194406622	194409762	10	3	47227
NUMA1	11	71713910	71791739	92	3	40338
PPARGC1B	5	149109861	149234585	377	38	50467
OR7G3	19	9236688	9237626	3	1	43484
PDK2	17	48172101	48189516	55	11	44409
DLGAP1	18	3496030	4455335	2755	251	46841
ANKDD1B	5	74907284	74967671	142	16	48259
DHRS12	13	52342129	52378293	55	14	50201
KRTAP9-1	17	39344697	39346891	4	2	43107
MED20	6	41873092	41888877	17	7	45489
MRPS31	13	41303432	41345309	34	4	51322
CCDC154	16	1484384	1494557	64	12	42924
C4orf29	4	128886461	128960866	42	11	48326
CCT4	2	62095224	62115939	59	9	51569
CIRBP	19	1259384	1274879	14	2	38016
AIF1L	9	133971863	133998539	58	10	47835
GABARAP	17	7143333	7146089	3	2	44867
CTD-2545G	17	7143746	7147954	3	2	44867
MRGPRD	11	68747490	68748455	2	1	43712
C1S	12	7096351	7178336	121	10	46311
ENOX1	13	43787654	44361044	1253	70	50394
ADAMTS3	4	73146686	73434516	389	18	51072
SHISA3	4	42399856	42404504	15	5	50312
INTS10	8	19674651	19709594	92	15	51526
CACNA1C	12	2079952	2802108	1722	139	49144
TSPAN15	10	71211229	71267425	206	16	53203
ZNF765	19	53893046	53930574	142	17	48073
PROK1	1	110993822	110999976	19	5	47323
CCL14	17	34310327	34329100	72	8	49718
GAB4	22	17442826	17489112	170	13	48020
PDGFRA	4	55095264	55164414	127	9	49772
APRT	16	88875747	88878352	7	4	39479
USP14	18	158383	214629	91	11	51972
TCP10	6	167770521	167797998	83	14	48765
SPECC1L	22	24666786	24813708	252	13	38509
BRICD5	16	2259254	2261951	10	3	46296
COA5	2	99215773	99224978	18	2	52005
TUSC1	9	25676396	25678856	13	4	47826

LILRA5	19	54818353	54824409	8	2	42779
MET	7	116312444	116438440	163	24	47848
GORASP1	3	39138150	39149854	31	9	45149
EIF3J	15	44829255	44855227	30	3	45106
SLA	8	134048973	134115298	258	16	51529
NAT10	11	34127149	34169217	70	3	51624
REST	4	57774075	57802010	72	12	51776
PTPRM	18	7566780	8406859	1948	135	48035
KCNA5	12	5153085	5155949	3	2	48186
SERTAD1	19	40927499	40931932	4	2	40942
MSH3	5	79950467	80172279	570	22	52154
TADA2B	4	7043626	7059679	47	9	46065
AMICA1	11	118064455	118095809	73	6	52067
NHLRC3	13	39612443	39624246	15	6	48454
UGT2B4	4	70345883	70391732	164	11	53032
GGA3	17	73232694	73258444	38	5	49028
CD52	1	26644448	26647014	10	3	49347
ASF1B	19	14230321	14247768	25	2	43155
AC006116.	19	56784138	56821819	91	13	46023
ERO1LB	1	236378855	236445319	317	11	47268
CHTF8	16	69152757	69154331	3	2	45064
ALPK1	4	113206665	113363776	391	49	49631
CST7	20	24929866	24940564	52	6	51579
AMACR	5	33986283	34008220	46	6	49065
TIMD4	5	156346293	156390266	68	9	49230
MTHFD1	14	64854749	64926722	183	24	47388
SDCCAG8	1	243419320	243663394	364	27	50159
HOXB8	17	46688739	46692478	6	3	48133
EPS8L2	11	694438	727727	101	22	45051
GPR62	3	51989330	51991509	1	1	36800
RP11-701P	4	185734773	185742443	12	5	38811
STX18	4	4417469	4544073	292	14	49428
MAP1B	5	71403061	71505395	187	38	48289
FAM163A	1	179712298	179785333	214	28	51429
PRKCD	3	53190025	53226733	72	10	46556
ANKRD40	17	48770551	48785285	18	6	50516
C3orf17	3	112721287	112738708	33	8	44412
ITGA2	5	52285156	52390609	370	24	51678
POTEC	18	14507338	14543584	21	4	42537
GHDC	17	40340817	40346531	3	2	34438
NIPA2	15	23004684	23034427	101	8	47491
SLC23A1	5	138702885	138720242	14	2	44586
C16orf11	16	610422	615528	8	2	49227
OR8K3	11	56085783	56086721	1	1	47998
LEPREL4	17	39958199	39968856	22	4	49186
ENG	9	130577291	130617035	62	13	42298
MCTP2	15	94774767	95023632	717	88	49740
C1orf216	1	36179476	36185073	4	2	40625
RP11-1396	4	9385743	9390709	21	4	37813
PFAS	17	8150936	8173809	58	12	44587
OR6J1	14	23102673	23103716	14	3	48945

IRX3	16	54317216	54320675	3	2	42104
CNBP	3	128888327	128902765	11	5	38048
MIEF2	17	18163848	18169866	9	3	48042
SNX32	11	65601112	65624367	31	10	46009
HEY1	8	80676245	80680098	6	3	47137
BTN3A2	6	26365387	26378546	89	7	52952
KLHL17	1	895967	901095	1	1	30258
B3GALT6	1	1167629	1170421	1	1	32870
EVPLL	17	18280976	18292961	16	3	46209
SORD	15	45315302	45369383	72	8	40262
ZFYVE9	1	52608046	52812358	176	11	45785
SSBP3	1	54691105	54879152	410	58	48194
GALP	19	56687389	56697144	36	8	43736
ITGA3	17	48133332	48167845	62	8	44701
EGFLAM	5	38258511	38465123	527	38	50210
DBP	19	49133287	49140695	8	2	40174
LETM1	4	1813206	1857974	15	9	34987
TEAD4	12	3068496	3149839	267	25	46124
GBP1	1	89518002	89531043	38	6	50876
EPHA8	1	22890057	22930087	127	18	48070
FAM192A	16	57186378	57220028	44	9	48064
ZEB2	2	145141648	145282147	172	31	49577
GLUD1	10	88810243	88854623	89	12	45071
KRTAP27-1	21	31709331	31710012	2	1	40598
PIFO	1	111888910	111895635	28	5	50220
DNAJC28	21	34860497	34864027	5	2	50618
OR2V2	5	180581943	180582890	1	1	38719
CACNG1	17	65040706	65052909	29	7	44778
TACC1	8	38585704	38710546	204	20	50765
NPHP3	3	132276986	132441303	200	19	47941
UHRF2	9	6413151	6507054	225	15	49184
DAZAP1	19	1407568	1435719	24	3	46154
KIAA1257	3	128628709	128721533	192	22	47147
MCCC1	3	182733006	182833863	176	13	49004
HIST1H2BJ	6	27093676	27100541	11	4	46878
PPAPDC1A	10	122216466	122349367	419	35	50394
HERC5	4	89378268	89427314	20	5	44296
PCIF1	20	44563267	44576662	24	8	45676
MS4A7	11	60145955	60163424	29	6	49352
FMNL1	17	43298811	43324687	47	7	48983
ERCC6L2	9	98637983	98776842	305	18	51435
PRSS27	16	2762419	2770552	2	1	39009
NUDT18	8	21964383	21966932	4	2	50391
RILPL1	12	123955925	124018265	122	13	44914
EPHX4	1	92495539	92529093	62	10	50346
KCNQ3	8	133133108	133493200	1101	78	49809
MESDC1	15	81293295	81296342	3	1	51619
RP11-723O	3	128628717	128690173	146	18	46118
SEC61A2	10	12171636	12211960	102	7	50760
HEYL	1	40089825	40105617	36	13	50941
LIMA1	12	50569571	50677329	113	7	49485

SFI1	22	31884674	32014572	385	18	45447
ASIC5	4	156750881	156787425	86	9	44798
CECR5	22	17618401	17646177	82	14	49166
CSTF1	20	54967427	54979518	18	5	39245
TMEM129	4	1717679	1723085	24	6	49936
TFF3	21	43731777	43735761	8	3	44212
LUC7L3	17	48796905	48833574	74	12	51264
WNT6	2	219724544	219738955	13	3	43119
PSME1	14	24605367	24608176	4	2	42834
TMED1	19	10943114	10946994	2	1	40686
RAET1E	6	150204511	150219238	60	2	52165
PHF19	9	123617977	123639606	28	6	49465
CCDC144N	17	20739760	20799453	58	9	42873
OR2AK2	1	248128535	248129641	4	2	46719
C1orf172	1	27276053	27286897	12	3	46915
USP29	19	57630506	57643294	32	5	49193
GRAMD1B	11	123396344	123498482	296	40	49387
GCNT2	6	10492456	10629601	379	37	47498
TWSG1	18	9334765	9402418	178	14	53062
DCAF4	14	73393040	73426411	115	15	51234
HSP90AB1	6	44214824	44221620	17	6	44810
FAM133B	7	92190107	92219708	55	8	50515
XCR1	3	46058516	46069234	24	3	50480
RBM20	10	112404155	112599227	566	45	50259
PRKAB2	1	146626685	146644129	46	6	43568
TAS2R4	7	141478242	141479235	2	1	52995
TDRP	8	439803	495781	246	25	50466
TFF1	21	43782391	43786703	17	6	43333
SEC11A	15	85212775	85259947	78	14	49730
PODXL	7	131185021	131242976	153	30	48343
ST8SIA5	18	44259081	44339220	275	43	49471
SLC19A3	2	228549926	228582728	86	12	45085
CHMP4B	20	32399110	32442172	34	6	50177
OXSRI	3	38206580	38296979	103	14	48292
C9orf91	9	117373486	117408702	163	14	52597
ING3	7	120590803	120617270	41	4	47284
EXOC6B	2	72403113	73053170	761	14	48653
TMEM74B	20	1161205	1166059	5	3	36428
RNASE11	14	21051051	21077954	108	25	48409
RNASE11	14	21051054	21078043	108	25	48409
LRRC37A2	17	44588877	44633016	2	1	37406
ARL17A	17	44594068	44657088	2	1	37406
MIA-RAB4E	19	41277553	41292590	43	8	49435
FUT5	19	5865837	5903798	130	13	48410
CTC-273B1	19	48969094	48975688	6	2	40781
OR1N1	9	125288637	125289572	3	1	49372
EIF4A1	17	7476024	7482323	17	5	48959
ABCA12	2	215796266	216003151	357	37	47821
FXD1	19	35629712	35634013	4	1	49642
TMOD4	1	151142462	151148760	4	2	39892
THSD7B	2	137523115	138435287	2771	93	50688

STAT4	2	191894302	192016322	205	24	49399
ARPC4-TTL	3	9834766	9877085	116	12	50998
OR56B3P	11	6149840	6150706	1	1	41664
OR10A4	11	6897856	6898850	3	2	48493
E2F2	1	23832922	23857712	42	6	49107
TBC1D9	4	141541919	141677274	301	27	49994
HFM1	1	91726323	91870426	272	18	51330
CEBPE	14	23586513	23588825	6	3	46771
CD109	6	74405508	74538040	345	22	51372
SRSF7	2	38970741	38978636	5	1	51400
DNAJA1	9	33025209	33039905	49	7	51612
SLC4A11	20	3208063	3219836	42	10	50102
PTCHD2	1	11539223	11597641	135	12	48356
IDH3A	15	78423840	78464291	85	15	48509
NOTCH3	19	15270444	15311792	101	7	48186
ADD2	2	70834750	70995357	562	31	48781
PDZK1	1	145726918	145764074	6	2	42788
POGK	1	166808681	166825581	24	5	48477
ZSCAN5D	19	56751773	56758863	20	4	46814
MAPKAPK3	3	50648951	50686720	38	5	47632
UBE4A	11	118230300	118269926	59	10	48905
C8orf22	8	49966870	49988649	30	4	52937
AP001421.	21	38888740	38888973	1	1	48583
GNPAT	1	231376953	231413719	56	4	50693
QSER1	11	32914724	33014862	136	9	47942
OR12D2	6	29364416	29365448	7	2	50597
CFL1	11	65590493	65629497	67	13	47703
SSPN	12	26274924	26452223	539	49	49579
LPPR5	1	99355806	99470588	415	38	49902
NEU3	11	74699179	74729938	47	10	48264
C1D	2	68268262	68338080	78	16	46956
PTPLA	10	17631958	17659376	96	15	49435
FAM207A	21	46359925	46396904	102	11	49642
SUN5	20	31571579	31592239	92	8	51552
MEPE	4	88742563	88767969	89	14	51119
GP5	3	194115550	194119995	14	2	46914
GPR137	11	64037534	64056972	18	7	44651
CLNS1A	11	77225981	77348850	235	18	49951
LAMA2	6	129204342	129837714	1429	65	48730
CLUH	17	2592680	2615957	30	4	43979
AL589765.:	1	151682909	151702070	28	7	51624
RIIAD1	1	151682909	151702281	28	7	51624
AP002956.	11	119027590	119027930	1	1	54014
ATP8B1	18	55313658	55470333	444	55	49610
FAM161A	2	62051989	62081278	68	10	49844
SKOR1	15	68112042	68126899	31	6	48044
LTV1	6	144164481	144184949	38	7	52022
SSB	2	170648443	170668574	55	12	49049
CELA3B	1	22303514	22325135	73	10	42865
CPLX1	4	778745	819986	159	22	48850
ABHD17B	9	74477368	74525847	28	4	45995

ULK4	3	41288090	42003922	1861	36	49427
AP006621.	11	777578	784297	14	4	49161
R3HDM2	12	57643392	57824788	164	11	51396
KIF22	16	29802040	29816706	3	2	33650
PI16	6	36922209	36932613	34	7	52865
WFDC2	20	44098346	44110172	40	7	46234
C14orf177	14	99177950	99184098	13	5	48182
SLC22A2	6	160592093	160698670	291	20	49975
PLIN4	19	4502204	4517716	28	6	40886
CLVS2	6	123317116	123394072	149	15	49459
SRL	16	4239375	4292081	173	25	47483
ERCC8	5	60169658	60240900	142	14	51352
PSMB4	1	151372010	151374420	2	1	40535
KLHDC4	16	87730091	87799598	316	19	51396
ZNF592	15	85291866	85349659	106	14	48785
FANCE	6	35420138	35434880	42	7	44839
RAD54L2	3	51575160	51702683	58	14	42304
TAS1R3	1	1266694	1270686	4	1	35952
LGI4	19	35615417	35633355	45	4	47990
SEMA6C	1	151104161	151119104	32	6	47490
NKX1-1	4	1396720	1400119	3	1	45853
ROMO1	20	34287194	34288906	3	1	52848
GXYLT2	3	72937224	73047289	291	19	48732
FOXN3	14	89591215	90085493	1185	123	48967
ZWILCH	15	66797297	66842115	127	14	52616
AC006486.	19	42738735	42759284	23	2	50941
FXN	9	71650175	71715094	225	18	52919
UBXN7	3	196074533	196159345	98	12	50829
PIGZ	3	196673214	196695931	74	16	47194
SYNDIG1L	14	74872596	74892805	44	7	48530
ANKRD31	5	74364100	74532703	348	11	48469
BMPR2	2	203241659	203432474	288	15	50814
ELANE	19	851014	856242	5	2	34673
CCSAP	1	229456758	229479041	50	8	47957
OR2J3	6	29079668	29080603	4	2	48767
LSM11	5	157170703	157187717	35	6	53575
CCBL1	9	131595221	131644773	78	6	42702
AC020629.	12	42624050	42628075	3	2	50058
NUMB	14	73741815	73930348	340	19	49364
THEMIS	6	128029217	128239776	358	25	49977
TG	8	133879203	134147147	808	43	50271
CCDC126	7	23636998	23684327	62	9	50378
RNASET2	6	167342992	167370679	74	17	46923
ST6GALNA	17	74559792	74583038	84	9	50832
PCDHB3	5	140480234	140483406	8	3	51660
RIMS4	20	43380449	43438979	90	11	47981
CLCA4	1	87012761	87046437	74	12	47552
LAMA3	18	21269407	21535030	379	16	43144
CELF5	19	3224701	3297074	188	19	44183
CAMK4	5	110559351	110830584	603	38	49483
IFNA6	9	21349834	21351377	4	1	55182

ZNF474	5	121465208	121515312	50	10	43647
PIGP	21	38431470	38445470	34	6	50967
Sep-01	16	30389454	30407312	22	4	45223
CDKN2AIP1	5	133737778	133747589	7	3	46173
C3orf52	3	111805182	111849851	125	10	48685
COX19	7	938415	1015235	219	40	42058
GNGT1	7	93220885	93540577	754	45	46738
PRIMA1	14	94184644	94254827	190	43	46817
KCNB1	20	47980414	48099184	360	35	48643
TMEM246	9	104235453	104295819	189	25	50906
TGFB1	19	41807492	41859816	80	9	48709
CEP112	17	63631656	64188202	1670	26	50745
SMARCB1	22	24129150	24176703	241	11	51974
COL18A1	21	46825052	46933634	424	31	47177
ZAP70	2	98330023	98356325	48	8	48775
FAM181A	14	94385240	94395954	31	6	47770
MRFAP1L1	4	6709428	6711607	1	1	33836
FBXO25	8	356428	421225	254	22	50722
ENTPD8	9	140328816	140336268	3	2	32611
TTC13	1	231041989	231114621	245	21	51285
KIAA0100	17	26941458	26972472	19	6	46653
CAMK2D	4	114372188	114683083	664	46	50318
AP1G2	14	24028774	24037279	2	1	48518
SERINC4	15	44086360	44092419	6	3	48898
MT1E	16	56659387	56661024	6	3	50382
SPINT3	20	44141101	44144264	5	1	49064
FAM21C	10	46222648	46288409	14	1	43858
RP11-10J21	8	142264664	142266916	7	3	54487
CBWD2	2	114195268	114253766	6	2	47776
ZNF143	11	9481866	9550071	106	12	51272
C1orf228	1	45140364	45191263	58	15	47081
INHBC	12	57828543	57844611	25	4	52229
PXMP2	12	133264192	133297276	84	14	47793
HNRNPF	10	43881065	43904614	63	10	50372
CD14	5	140011313	140013286	3	1	50245
BPGM	7	134331560	134364565	101	7	51521
FAM217B	20	58508819	58523735	4	2	38212
SPRR2A	1	153028589	153030013	2	1	48991
ADH5	4	99992132	100009952	77	8	49233
C19orf82	19	9731967	9756572	34	4	48623
EEF1E1	6	8073593	8102811	78	12	53534
PAPPA-AS1	9	119160439	119162885	6	3	50176
IGFBP3	7	45951949	45961473	18	6	49101
CELSR2	1	109792641	109818372	68	12	47773
EPB41L4A	5	111478138	111755013	697	40	51483
MAP10	1	232940643	232946092	11	3	48176
GIPR	19	46171502	46186982	27	6	44952
HOXA5	7	27180671	27183287	6	3	43519
MRPL43	10	102729215	102747272	27	5	49690
TPCN2	11	68816365	68858072	111	6	51551
DRG1	22	31795509	31924726	251	25	46424

AC010642.	19	58790332	58826563	80	16	46374
OPN4	10	88414314	88426605	46	11	49318
ZNF627	19	11670189	11729950	150	17	49616
IAPP	12	21507893	21532912	94	12	51765
ELSPBP1	19	48497908	48528410	139	12	49199
SPOCD1	1	32256023	32281652	40	9	47106
ATG16L2	11	72525353	72554719	25	9	46521
MIOS	7	7606503	7648560	117	12	46334
COL9A2	1	40766159	40783488	58	9	43951
CHRN2	1	154540257	154552502	15	5	45997
RAPGEF4	2	173600002	173917621	781	54	48163
TLE4	9	82186688	82341658	250	27	46836
PRAP1	10	135160650	135166187	12	4	35650
KDELC2	11	108342832	108369159	34	6	49880
EPS8	12	15773092	16035263	141	23	40133
LGALS1	2	64681103	64688515	11	5	46430
DUSP16	12	12628829	12715317	171	19	49664
PYGL	14	51324609	51411454	221	26	46023
MYO3A	10	26223196	26501456	1056	20	53115
GALNS	16	88880142	88923378	238	21	45867
SALL3	18	76740275	76762677	41	8	46589
AL391152.1	14	57671888	57673291	4	1	44473
TREML4	6	41196062	41206620	79	8	50301
SLC22A5	5	131705444	131731306	77	8	51777
YJEFN3	19	19627036	19648390	35	3	50899
TPR	1	186280784	186344825	127	13	51782
FMN1	15	33057747	33486897	1730	121	49428
C9orf156	9	100666771	100684852	45	6	50636
DMRTB1	1	53925072	53933161	22	5	47781
RP11-408E1	13	19756173	19761496	37	2	52568
NFKBIZ	3	101546835	101579866	29	9	49021
PRR24	19	47778142	47778979	2	1	49621
ZNF791	19	12721732	12742735	37	3	47189
HTR2A	13	47405685	47471169	219	34	50361
CYP11B1	8	143953772	143961262	32	4	50653
LRIG3	12	59265931	59314303	89	10	47983
CSRP1	1	201452658	201478584	94	12	44196
SF3A3	1	38422647	38456593	65	6	49990
RWDD4	4	184560788	184580378	72	15	42960
KIAA1549L	11	33563618	33695648	256	21	49614
FNDC3B	3	171757418	172119455	729	71	47295
TFAM	10	60144782	60158981	32	7	47875
USP15	12	62654119	62811211	345	19	52506
RPP21	6	30312908	30314661	12	5	48025
RP1-317E2	1	26137961	26150235	27	3	47171
ALKBH4	7	102096685	102105323	26	7	46398
WSB1	17	25621102	25640657	28	4	47781
TAX1BP1	7	27778950	27884183	196	22	50016
PLAC8	4	84011201	84058228	59	10	46413
SDR9C7	12	57316938	57328189	34	6	49221
MDGA2	14	47308826	48144157	2231	69	52023

LRRC56	11	537527	554916	80	12	46901
PTGFR	1	78769568	79005434	560	40	50078
PKHD1L1	8	110374706	110542559	341	13	49892
IL34	16	70613798	70694585	188	14	50533
ARHGAP21	10	24872538	25012597	156	15	49028
CRYGA	2	209025464	209028300	10	2	47522
LRR1Q4	3	169539710	169555563	34	6	52024
OR2D2	11	6912721	6913830	3	2	45979
TEKT2	1	36549676	36553876	2	1	50276
NOP2	12	6666029	6677857	15	6	38118
PIKFYVE	2	209130991	209223475	131	12	44017
CCDC40	17	78010435	78074412	245	24	49622
SLA2	20	35240721	35274619	29	13	43914
COL13A1	10	71561644	71724031	681	100	48784
FAM213A	10	82167585	82192753	56	10	50215
ATP6V0A4	7	138391040	138484305	326	49	49852
May-04	6	78400375	78636691	588	18	52766
C8orf17	8	140943416	140946190	8	3	49198
ACTA1	1	229566992	229569845	4	1	50306
CCDC172	10	118083940	118139541	130	14	48248
FAM188B2	3	150588832	150612089	45	7	46215
IPO9	1	201798269	201853422	85	14	49376
NME1-NMI	17	49230920	49249108	49	9	52028
NME2	17	49230951	49249105	49	9	52028
ACRBP	12	6747241	6756626	10	4	42436
WDR73	15	85185999	85197574	27	5	49972
COX6B2	19	55860674	55866182	4	2	41230
MRPL47	3	179306073	179322442	23	3	50981
TMEM64	8	91634223	91803860	283	11	50770
PDIK1L	1	26437664	26452034	30	2	51527
MLTK	2	173940163	174132738	568	33	45059
LATS2	13	21547171	21635686	229	21	45825
THAP6	4	76439156	76475683	70	12	50100
RNF167	17	4843303	4848517	10	4	44235
PKN1	19	14543865	14582679	78	15	43583
TMEM87B	2	112812800	112876895	148	21	48168
GSTP1	11	67351066	67354131	8	2	48469
HSD3B2	1	119957554	119965658	15	2	50307
XPOT	12	64798130	64844907	63	11	49111
ELP2	18	33709407	33757909	126	12	52549
FMO3	1	171060018	171086959	92	11	50771
OR6K6	1	158724510	158725681	2	1	51076
NCKAP1	2	183773843	183903586	273	17	49748
TEPP	16	58010339	58022020	32	6	47328
THY1	11	119288090	119295695	15	2	52312
HEPN1	11	124789146	124790573	2	1	49156
CALR3	19	16589868	16607003	43	3	52442
RIC8A	11	207511	215113	18	5	52281
RAC3	17	79989500	79992080	3	1	41829
RHBDF2	17	74466973	74497872	78	12	47999
MDH2	7	75677369	75696826	42	5	45346

GCKR	2	27719709	27746554	36	6	50063
MYBBP1A	17	4442192	4458926	24	6	36897
CFB	6	31895475	31919861	52	10	48465
TMEM81	1	205052258	205053645	5	2	39666
MCRS1	12	49950327	49961936	12	2	46578
DDIT3	12	57910371	57914300	3	1	50774
ERAL1	17	27181956	27188085	13	1	47765
SFMBT2	10	7200586	7453450	836	59	48935
STX10	19	13254872	13261197	6	2	47236
TULP1	6	35465651	35480715	48	9	49077
SGOL2	2	201374731	201448505	146	18	52333
MBOAT2	2	8992820	9143942	197	12	48412
RNPEP	1	201951500	201975275	116	15	48787
C19orf83	19	46144752	46146098	4	2	45452
RSBN1L	7	77325760	77412339	206	18	49613
NCS1	9	132934857	132999583	184	25	45251
MCM10	10	13203554	13253104	154	28	50388
KLHL41	2	170366212	170382772	26	9	50509
CC2D1A	19	14017014	14041692	23	5	39670
MOB3A	19	2071037	2096672	39	8	37786
CDK19	6	110931181	111137161	376	22	51315
LAMTOR3	4	100799493	100815647	21	6	47170
YTHDF1	20	61826781	61847586	42	5	51393
CXCL2	4	74962752	74965010	1	1	41297
MBD3L1	19	8943074	8954016	16	4	52244
TONSL	8	145654165	145669827	40	2	47605
NEBL	10	21068902	21463116	857	48	48296
GLRX5	14	95999840	96011061	42	11	51080
SAP130	2	128698791	128785694	147	14	47113
C1QL4	12	49726200	49730971	9	3	46081
TMEM160	19	47549165	47551888	6	2	37928
FFAR2	19	35934809	35942669	21	6	47353
TRAM1	8	71485677	71520622	72	10	48608
MAPK13	6	36095586	36107842	19	6	48322
ACYP2	2	54197975	54532437	859	39	51957
AC074389	7	1732446	1733961	5	2	40290
NAA25	12	112464500	112546826	61	8	46030
PLSCR4	3	145910126	145968966	204	16	50990
PLEKHA8	7	30067020	30170096	216	12	48829
MOGAT3	7	100838288	100844302	11	3	47511
RETNLB	3	108462271	108476231	29	6	49733
PLXNC1	12	94542499	94701451	519	54	49854
ACOT4	14	74058410	74063200	17	6	43703
CHCHD5	2	113341817	113346852	11	3	48351
PEX12	17	33901814	33905882	8	3	48371
SLC9A3	5	473425	524447	217	31	46398
KCNN2	5	113696642	113832337	279	31	48790
C2orf73	2	54557171	54610879	127	18	50230
OR8B2	11	124252291	124253258	1	1	55857
NUDCD3	7	44418720	44530479	201	7	50407
CXCL9	4	76922428	76928641	11	4	45125

MYH4	17	10346607	10372876	41	5	47772
UCKL1	20	62571186	62587769	22	7	41204
GPR26	10	125425871	125454123	72	16	48249
ZNF500	16	4798240	4817625	73	9	48692
IGSF3	1	117117031	117210375	70	12	46026
PLIN5	19	4522543	4535236	28	4	40638
WASF1	6	110421022	110501207	179	11	49818
PPP3CB	10	75196186	75255782	27	2	46048
AC008387.	5	72894203	72896845	11	4	49361
AC074212..	19	46236509	46267792	44	8	45389
OR8B3	11	124266278	124267264	2	1	50371
TNFRSF17	16	12058964	12061925	12	3	46881
FXYD5	19	35645633	35660786	58	10	46639
RP1-130H1	22	30681227	30695471	26	8	50550
CCT7	2	73460548	73480149	45	7	46419
TTLL6	17	46839597	46894576	137	14	50589
CD151	11	832843	839831	39	2	49201
LRRC1	6	53659295	53788919	338	16	53095
PRSS8	16	31142756	31147083	3	2	46215
SEMA3A	7	83585093	84122040	1475	67	49532
TMEM100	17	53796988	53809482	3	2	42896
DESI1	22	41994032	42017100	13	3	44719
OPA1	3	193310933	193415612	221	14	53078
CD276	15	73976307	74006859	78	9	47228
GCSH	16	81115566	81130008	55	2	50834
WDR7	18	54318574	54698828	696	44	48310
UBTD1	10	99258625	99330966	137	16	48687
THEM6	8	143808621	143818345	20	4	50695
NOV	8	120428546	120436593	47	3	50115
NME8	7	37888199	37940003	237	29	50816
RASGRF1	15	79252289	79383115	343	50	46408
CREBRF	5	172483355	172566291	159	15	50830
SLC22A11	11	64323098	64340347	18	2	47493
SLC8B1	12	113736564	113797298	132	13	47783
IMPG1	6	76630832	76782395	269	27	50627
PTPN5	11	18749475	18814268	158	30	47425
NDUFA3	19	54606036	54612564	21	5	43687
H1FOO	3	129262057	129270310	21	3	47551
GLIPR1L1	12	75728419	75764340	60	7	51382
CACNG6	19	54495542	54515923	60	11	38363
Sep-01	16	30389755	30393863	6	2	45723
EIF4EBP3	5	139927251	139929163	2	1	46491
HSPA4	5	132387654	132442141	125	10	46839
SIX5	19	46268043	46272484	5	2	48705
BBS12	4	123653857	123666098	30	4	44941
MFG E8	15	89441916	89456642	52	10	50441
ZNF383	19	37708828	37734828	26	5	50151
C4BPB	1	207262187	207273338	16	4	48694
ADCK5	8	145596790	145618457	20	4	41796
EXOC5	14	57670518	57735726	55	5	43719
CARD16	11	104912053	104972158	135	11	50967

VDR	12	48235320	48336831	252	32	48193
GHITM	10	85899196	85913001	43	10	50360
AGFG2	7	100136834	100165842	29	5	46762
MTMR11	1	149900543	149908791	14	2	49112
SNX5	20	17922241	17949623	90	8	53818
PIEZO2	18	10666480	11148587	1588	114	50049
GPR18	13	99906968	99913998	13	5	49499
C19orf35	19	2274631	2282181	27	6	38604
UNCX	7	1272543	1276954	5	2	38241
ACSM1	16	20634559	20710212	165	15	49049
TMED3	15	79603404	79704334	343	20	52506
GIMAP5	7	150419341	150447121	84	9	49703
TPH1	11	18039111	18063973	41	5	49948
GLTPD2	17	4692254	4693685	3	2	46194
FCHSD2	11	72547790	72853306	193	24	48638
PAEP	9	138453602	138458801	13	4	40990
KCNU1	8	36641842	36793646	201	15	50149
GTF2E1	3	120461484	120501916	73	14	47237
RHOC	1	113243728	113250056	14	4	49525
CYP24A1	20	52769988	52790512	100	19	47067
Sep-14	7	55861237	55930482	196	23	46343
ARL5A	2	152645498	152685006	52	7	44553
KIF5B	10	32297938	32345359	85	10	52035
FAM64A	17	6347735	6354789	22	6	46195
AOC3	17	41003201	41010147	3	1	44325
OR10G6	11	123864870	123865868	3	2	40853
ST8SIA3	18	55018044	55038962	30	3	48416
DIMT1	5	61683081	61699766	39	6	52949
UGT3A1	5	35951112	36001130	112	15	49848
FBLN2	3	13573824	13679922	368	41	49246
PPIP5K1	15	43825660	43882430	24	3	46032
SLC4A9	5	139739787	139754728	13	5	46334
GPR31	6	167569759	167571817	3	2	45725
HAT1	2	172778958	172848599	140	19	46757
ENDOD1	11	94822974	94865809	134	23	49129
PPP1R14C	6	150464212	150571493	358	48	48250
PWP2	21	45527171	45551063	50	4	46418
TRMT61A	14	103995521	104003410	19	4	50902
SULT2B1	19	49055332	49102682	227	24	47984
AL359878.:	10	1017097	1034281	49	8	50650
MESDC2	15	81239667	81282219	93	6	50576
SHQ1	3	72798428	72911065	125	6	50631
AC024592.	19	5866182	5903798	128	13	48587
NDUFB1	14	92582466	92588261	33	3	52526
RBM14-RBI	11	66384097	66413940	21	6	48326
KIAA1841	2	61293006	61391960	186	19	50785
IGJ	4	71521258	71547534	18	3	39095
C2orf40	2	106679702	106694615	46	13	49177
COPS2	15	49398268	49447858	111	14	46727
CCDC36	3	49235861	49295537	62	7	48935
IFNK	9	27524312	27526496	11	5	51088

ATN1	12	7033626	7051484	14	4	43346
INTS8	8	95825539	95893974	195	18	50517
SLC7A11	4	139085251	139163503	175	20	49051
DUSP13	10	76854192	76868979	41	8	46760
SMCP	1	152850793	152857523	5	2	38579
VHL	3	10182692	10193904	37	6	47362
INIP	9	115446206	115480516	59	7	50685
KRTAP21-3	21	32090843	32091095	1	1	39804
PPP1R1A	12	54969171	54982443	33	7	45686
CNIH3	1	224622362	224928251	710	36	50672
CAP1	1	40505905	40538321	101	7	49704
KLHL28	14	45393522	45511525	155	6	44981
PGGT1B	5	114546527	114598569	100	15	47996
FAM71B	5	156588857	156593275	9	3	44724
FBN1	15	48700503	48938046	269	7	52769
LYPD4	19	42341148	42348760	8	1	43975
DAZL	3	16628299	16711813	353	47	51012
C17orf96	17	36827961	36831187	3	2	51687
C10orf76	10	103605356	103815950	246	27	50510
TFDP1	13	114239013	114295785	69	6	47157
PHYHD1	9	131683174	131704320	32	2	49475
ACBD5	10	27484146	27531059	274	12	48388
NEIL2	8	11627148	11644855	68	11	50963
PITPNA	17	1421012	1466110	125	12	48051
FGF5	4	81187753	81257834	140	15	50174
AL022328.	22	50714103	50714350	1	1	46074
AP001888.	11	69587254	69587718	1	1	55623
C5orf20	5	134779905	134783038	19	5	48996
C12orf61	12	62995531	62997214	7	3	41333
NOL10	2	10710892	10830101	449	18	47925
KATNB1	16	57769642	57791162	61	12	44253
AC020922.	19	55851254	55856561	15	3	44339
MGMT	10	131265448	131566271	1062	48	51610
EIF4E2	2	233414762	233448354	85	6	52825
GAS2L2	17	34071530	34079897	19	4	46279
FABP12	8	82437216	82443613	28	5	45958
TMEM92	17	48348767	48358844	28	10	43470
FAM211B	22	24981588	24989175	9	2	43897
PHACTR1	6	12717893	13288645	1184	57	49657
SLC10A4	4	48485360	48491213	9	2	50649
XKR4	8	56014949	56454613	1047	66	49130
L3MBTL4	18	5954705	6415236	989	73	48519
Sep-02	2	242254515	242293442	78	11	52240
TCP11	6	35085848	35116387	75	7	49510
BCL2L12	19	50168823	50177173	10	2	42572
SLC5A4	22	32614465	32651328	116	19	45453
DSN1	20	35380194	35402221	12	7	46330
ADAM23	2	207308263	207485851	340	34	49995
HIST1H4C	6	26104104	26104518	2	1	55857
GPR61	1	110082494	110091028	9	2	50301
KCNJ10	1	160007257	160040038	53	10	48695

RHCE	1	25688740	25756683	48	2	48902
NCMAP	1	24882602	24935819	208	26	51399
AC010336.	19	7963689	7968427	12	4	44565
CCNJL	5	159678659	159772403	237	31	48686
TMC8	17	76126851	76139049	53	10	41232
TNFRSF25	1	6521211	6526255	8	2	48653
SCN4B	11	118004092	118023603	41	6	49195
KIAA1875	8	145162629	145173218	18	2	42434
FBXO39	17	6679542	6700420	88	15	50818
HEPACAM	11	124789089	124806308	36	12	47693
KHDC1	6	73951037	74020088	224	15	51154
PCDHB8	5	140557371	140560081	5	2	53472
METAP1D	2	172864490	172947158	178	24	45902
CYP4X1	1	47427036	47516423	146	12	50671
CCDC12	3	46963216	47023500	59	6	49302
TMEM241	18	20777108	21017925	404	37	47880
EPHB3	3	184279572	184300197	61	12	50086
LHX9	1	197881037	197904608	45	10	45361
LYRM2	6	90277863	90348472	156	20	50633
PLCH2	1	2357419	2436969	202	31	41074
PTGDR2	11	60618413	60623444	22	6	50938
PROKR1	2	68870721	68882708	30	10	45608
NDUFV2	18	9102628	9134343	51	8	50953
RFC5	12	118451393	118470935	49	12	47552
POU6F1	12	51580719	51611477	64	12	46702
LAMA4	6	112429963	112576141	331	32	48454
KBTBD13	15	65369154	65372276	9	3	50182
C15orf60	15	73735499	73852355	201	16	45360
CASP10	2	202047604	202094129	63	7	48931
FAM63A	1	150969025	150980851	17	6	44468
CALCOCO1	12	54104903	54121529	38	7	50837
MEGF10	5	126626523	126801429	514	22	46523
CDC20B	5	54408799	54469005	122	11	50688
MED30	8	118532952	118552501	48	10	49472
TYMS	18	657604	673578	52	4	50307
RNASE8	14	21525981	21526614	2	1	44624
ITGA6	2	173292082	173371181	314	25	47950
CYP4B1	1	47223510	47285085	111	16	47448
EFCAB4A	11	826144	831991	20	6	42957
ZNF331	19	54024235	54083523	275	24	50401
SLC25A18	22	18043139	18073760	47	11	42754
MACF1	1	39546988	39952849	639	26	47520
BIVM-ERCC	13	103459704	103524748	151	16	50529
PPEF2	4	76781020	76823724	65	10	48081
SRM	1	11114641	11120081	6	2	42099
HCLS1	3	121350246	121379774	72	9	54053
SUPT7L	2	27873679	27886676	8	3	47344
CYP2A13	19	41594377	41602100	13	2	43648
OR52A5	11	5152922	5153872	1	1	56632
TBXAS1	7	139476850	139720125	471	68	46873
CHMP1B	18	11851395	11854448	3	2	42478

RP11-944L	3	44607051	44635665	49	5	52725
SLC36A2	5	150694539	150727151	90	10	50109
NAMPTL	10	36810649	36813162	5	2	53013
RSPO3	6	127439749	127518910	119	10	48548
ATRN	20	3451687	3631769	443	20	51811
NUPL1	13	25875662	25923938	29	7	40750
NOS3	7	150688083	150711676	46	9	44604
SOCS4	14	55493948	55516206	35	5	49978
BAIAP2	17	79008948	79091232	334	41	46712
CPT1A	11	68522088	68611878	129	16	48107
PSMC2	7	102984701	103009842	34	6	49163
PKMYT1	16	3018025	3030540	15	5	44367
C1orf86	1	2115903	2144159	41	7	46720
MED17	11	93517393	93547861	41	5	48322
CEP76	18	12661832	12702776	92	9	53990
ZKSCAN7	3	44596685	44624975	58	6	52601
ANGPTL4	19	8428173	8439257	18	5	46839
LTB	6	31548302	31550299	1	1	54014
NCOR1	17	15932471	16121499	244	11	47316
SORBS3	8	22402499	22433301	52	16	43304
COX7A1	19	36641824	36643771	3	1	44745
TRIM45	1	117653682	117665209	33	6	48703
RP11-1012	14	68126537	68157084	54	9	51313
SERPINB2	18	61538926	61571124	107	3	52411
CCDC28A	6	139094657	139114456	62	9	51430
GOLT1B	12	21654715	21671342	70	12	49049
MYO15A	17	18012020	18083116	120	14	48252
GRIN2D	19	48898132	48948188	93	18	46469
MMP25	16	3096682	3110727	40	7	48599
NOSIP	19	50058968	50093519	54	7	43598
NOD1	7	30464143	30518400	103	13	50409
PRR16	5	119799973	120023027	707	45	50201
VEGFA	6	43737921	43754224	41	10	43978
XPR1	1	180601140	180859387	380	20	51172
SUMO1	2	203070903	203103331	58	10	52293
ZNF365	10	64133951	64431771	829	63	49851
AOAH	7	36552456	36764154	547	52	50892
OR2AP1	12	55968199	55969128	1	1	35089
CRB1	1	197170592	197447585	342	29	49464
C6orf10	6	32256303	32339684	597	17	46277
NOP9	14	24769068	24778330	25	5	45179
RGS22	8	100973164	101143496	245	25	49348
PODNL1	19	14042000	14064204	11	4	35636
AURKB	17	8108056	8113918	13	5	43810
SSR2	1	155978839	155990750	17	5	43096
DOCK5	8	25042238	25275598	497	46	49301
PLEKHG6	12	6419602	6437672	25	4	39155
ALDH16A1	19	49956426	49974305	30	5	48647
WDR3	1	118472343	118509165	28	6	46198
HYDIN	16	70841281	71264625	214	23	46943
FCAMR	1	207131310	207143970	33	3	52872

ZNF45	19	44416781	44439430	61	7	51861
C6orf211	6	151773422	151791236	44	7	51836
C3orf20	3	14716606	14814541	222	31	49011
MRPL9	1	151732119	151736040	12	3	52748
THADA	2	43393800	43823185	959	36	50667
NKD1	16	50582241	50670647	112	15	43049
ADC	1	33546705	33586131	35	7	46963
XRCC6BP1	12	58335324	58351052	43	3	46141
TRPM4	19	49660998	49715093	117	9	45709
LLGL2	17	73521161	73571289	198	21	46631
CTD-2144E	16	34256507	34257278	1	1	38082
NFATC3	16	68118654	68263162	188	9	49909
MAPRE1	20	31407699	31438211	66	13	48973
SLC16A13	17	6939394	6943440	5	2	50208
RORC	1	151778547	151804348	57	13	49729
UBL7	15	74738318	74753523	21	3	46514
EEPD1	7	36192758	36341152	458	45	50844
CPNE4	3	131252399	132004254	2578	80	50332
AL139099.1	14	50064193	50065882	5	2	45611
EXOG	3	38537618	38583652	91	9	49298
STK17B	2	196998290	197041227	115	7	51431
UBA3	3	69103881	69129559	44	7	50086
CLDN8	21	31586324	31588391	4	2	43675
CDKL3	5	133541305	133706738	252	7	51027
UNC5C	4	96083655	96470357	1097	100	46807
SMURF2	17	62538413	62658186	169	6	44701
C21orf67	21	46352729	46359828	28	4	49285
PHF21A	11	45950871	46142985	268	13	48999
TBX21	17	45810610	45823485	41	9	49690
SLC12A5	20	44650356	44688784	115	14	47313
SHOC2	10	112679301	112773425	168	19	47335
PODXL2	3	127348024	127391652	30	8	49117
ALDH6A1	14	74523553	74551196	88	9	49758
ZMYM4	1	35734568	35887659	33	4	38503
ENPEP	4	111286889	111486441	461	40	51156
RGS18	1	192127587	192154945	28	5	45280
PRR14	16	30662038	30667761	1	1	49358
SLC52A2	8	145577795	145584932	8	2	38534
C2orf57	2	232457575	232458994	3	2	50671
FARP2	2	242295658	242434256	315	20	52829
SSR1	6	7268539	7347679	358	24	51089
RPL32	3	12875984	12883087	30	5	46671
ZNF184	6	27418522	27440897	79	6	53114
LINGO1	15	77905369	78113242	581	34	49603
ITGA4	2	182321929	182400914	203	22	50617
EXOSC9	4	122722472	122738176	32	6	47382
SKIL	3	170075466	170114623	90	10	45358
SLC29A3	10	73079015	73123142	144	21	49582
IVD	15	40697686	40728146	70	8	50599
DIP2B	12	50898768	51142450	290	11	50805
CTNND2	5	10971952	11904155	2045	152	47784

NCBP1	9	100395908	100436030	29	9	48944
SRRM1	1	24958207	24999758	36	6	46150
CHCHD4	3	14153580	14166370	23	5	48335
CLEC3B	3	45043040	45077563	81	8	52293
VPS16	20	2821349	2847378	62	5	48398
PHF12	17	27232268	27278789	31	6	46679
CNR2	1	24197016	24285549	170	11	47736
OLAH	10	15074226	15115851	156	24	50730
METTL21B	12	58165275	58176324	14	2	45354
MAPKAPK2	1	206858289	206907628	75	13	49882
CACNA1D	3	53528683	53847760	703	67	48530
BRWD1	21	40556102	40693485	340	16	49906
CLDND1	3	98216756	98241910	47	9	50656
KRT13	17	39657233	39661957	9	2	32105
CDPF1	22	46639908	46646576	23	3	46874
C12orf74	12	93096619	93102325	10	5	43952
KCNK18	10	118957000	118969810	66	5	48220
GPA33	1	167022073	167059868	102	17	49245
SLC31A2	9	115913222	115926417	64	12	51069
KIAA1731	11	93394805	93463522	58	12	48400
NAPG	18	10525902	10552758	59	5	52602
DCAF4L2	8	88882973	88886296	4	2	49159
PAWR	12	79968759	80084877	40	2	50036
MGRN1	16	4666494	4740975	254	16	45763
TTC23L	5	34838938	34899561	148	25	50240
PTPLAD2	9	20995306	21031635	120	15	50278
RP11-438J1	3	10291056	10327480	98	14	48332
FOSL1	11	65659520	65668044	20	6	46399
PKDREJ	22	46651560	46659219	24	2	47540
AC026703.	5	32788945	32791819	4	1	53254
TUBG2	17	40811323	40819024	8	3	52239
NUP107	12	69080514	69136785	104	13	49584
HOXD4	2	177015950	177017954	4	2	46463
ITGB1BP1	2	9543604	9563676	42	5	48602
ZNF467	7	149461271	149470568	11	2	36995
ANKRD12	18	9136226	9285983	297	15	51307
SERPINI2	3	167159577	167196792	92	8	49864
MROH8	20	35729629	35807991	149	14	51100
ALDH1L1	3	125822412	125916837	376	30	50433
OMG	17	29599031	29624557	20	2	48446
HSD17B13	4	88224941	88244058	49	11	49498
FBLN7	2	112895962	112945791	117	20	49717
CAND2	3	12837971	12913415	212	22	47452
TBL1XR1	3	176737143	176915261	367	26	50794
RBP1	3	139236276	139258671	58	12	47307
SFXN1	5	174904065	174956745	182	14	50528
CPT1B	22	51007290	51017899	49	8	43823
GJD2	15	35043233	35047166	8	3	53730
PALD1	10	72238577	72328205	333	33	50041
FPR3	19	52298416	52329442	91	13	53030
S100A13	1	153591263	153606568	24	4	47028

CD300LD	17	72575504	72588422	31	6	47321
RP11-216L	9	139685831	139695047	28	5	48759
PPAPDC2	9	4662298	4665256	6	3	40959
EPC1	10	32556679	32667726	244	17	49795
CASC3	17	38296571	38328436	37	6	40855
TSPAN2	1	115590632	115632121	149	20	52462
MRPS25	3	15083967	15106842	34	9	48788
MGLL	3	127407909	127542051	321	36	48833
SNX16	8	82711816	82755101	125	9	53728
SNX27	1	151584541	151671567	79	8	49332
TRMT12	8	125463048	125474391	20	5	52736
LSS	21	47608055	47648738	112	13	51013
SURF2	9	136223428	136228045	12	2	49271
KCTD13	16	29916333	29938356	27	4	44439
GEMIN7	19	45582453	45594782	49	4	51473
CDK5	7	150750899	150755617	11	4	48482
NIT2	3	100053545	100075710	50	10	47069
C4orf26	4	76481258	76491095	30	6	49823
FAM21A	10	51827648	51893269	5	2	38699
EBAG9	8	110551940	110578225	30	8	45227
FCHO2	5	72251808	72386349	193	12	51759
ZFYVE16	5	79703832	79775169	137	9	46714
SNX9	6	158244296	158366109	293	11	52094
ITIH1	3	52811603	52826078	29	3	49002
MALT1	18	56338618	56417371	189	18	50629
ZNF676	19	22361893	22379753	42	3	51729
ZFYVE19	15	41099284	41106767	14	2	49090
OR2L13	1	248100493	248264224	370	18	46333
NABP1	2	192542794	192561385	13	5	49915
FXD2	11	117671559	117699413	80	18	49396
FAM194B	13	46108657	46189874	187	24	48102
RPS21	20	60962172	60963576	4	2	43421
KRT73	12	53001354	53012343	32	10	45895
SQRDL	15	45923346	45983492	233	31	51629
SHANK1	19	51165084	51222707	88	20	39113
ZNF197	3	44626380	44689963	66	7	51486
STEAP1B	7	22459063	22672544	559	52	49477
CBLN2	18	70203915	70305756	221	21	45920
INPP5J	22	31518717	31530682	21	6	48666
IL15	4	142557752	142655140	155	15	50444
EXO1	1	242011269	242058450	166	16	48905
MOBP	3	39508689	39570970	254	6	48466
ISM2	14	77940740	77965210	62	11	51553
ACOX3	4	8368009	8442450	250	25	49236
C17orf67	17	54869274	54916134	104	8	53834
NSG1	4	4349867	4420785	261	35	47486
PEX26	22	18560689	18613905	109	14	48266
May-01	22	42095503	42195460	170	9	46168
AKAP1	17	55162453	55198710	96	17	49925
RPUSD3	3	9879533	9886286	10	4	46789
EPB41L2	6	131160487	131384462	578	25	48091

HOOK2	19	12873817	12983554	194	20	46637
C1orf27	1	186344890	186390510	73	12	51454
KRBA1	7	149411872	149431664	50	5	49390
SLC37A3	7	139993493	140104233	362	39	50271
FAM227A	22	38974125	39052634	160	11	49021
CHUK	10	101948055	101989376	81	9	45541
NLRP14	11	7041677	7092539	187	17	50479
MYADM	19	54369477	54379691	9	1	40905
RP1-170O1	7	27203154	27219632	23	7	43980
MS4A4A	11	60048014	60076445	49	9	50703
CTD-2192J	19	12754645	12759211	3	1	47048
PTCHD3	10	27687116	27703297	88	9	50754
POLR2J3	7	102178365	102213103	1	1	37650
AC008394	5	86512423	86534822	17	4	42552
SH3BGRL2	6	80341000	80413372	171	23	50570
GIPC3	19	3585551	3593539	19	6	36069
KCNA2	1	111136202	111174096	94	11	46180
RSPRY1	16	57220049	57274387	84	12	46105
IGF2BP3	7	23349828	23510086	318	36	46910
CTD-2267D	17	38516907	38520945	10	2	41019
HES5	1	2460184	2461684	1	1	52793
GPX3	5	150400124	150408554	32	6	47155
HIP1R	12	123319000	123347507	81	8	47889
IRGC	19	44220162	44224173	9	3	45538
LZIC	1	9982173	10003465	35	6	48322
TUBD1	17	57936851	57970304	50	7	52239
ARHGEF10	8	1772142	1906807	603	82	47688
ZNF605	12	133498019	133532892	26	5	43934
ISLR	15	74466012	74469213	9	2	47169
FRMPD2	10	49364601	49482941	157	13	48879
AC226150	12	133787246	133787772	1	1	55272
DIXDC1	11	111797868	111893308	46	4	43624
C11orf40	11	4592653	4599050	46	10	48959
GLG1	16	74485856	74641012	383	21	49898
PTGES3L-A	17	41102543	41132545	23	3	50219
FKBP1B	2	24272571	24286551	22	4	50611
DGKQ	4	952675	980683	60	12	48112
KRTAP3-1	17	39164773	39175576	30	4	43719
C1orf127	1	11006528	11042094	106	13	48905
LRP11	6	150139934	150186199	62	3	47757
PBRM1	3	52579368	52719933	278	9	46817
TBC1D5	3	17198654	18486309	2237	49	46379
PSMA1	11	14515329	14665181	170	24	48602
C5orf63	5	126378250	126409184	65	5	39566
SOST	17	41831099	41836156	2	1	36458
AP3M2	8	42010464	42029191	28	5	49413
TGOLN2	2	85545147	85555548	33	4	49450
CHST11	12	104849073	105155792	935	97	48588
TOP2B	3	25639475	25706398	119	9	49030
TBX6	16	30097114	30103208	6	2	45215
CPLX4	18	56942388	56985881	151	16	51446

UCN2	3	48599160	48601206	3	1	41338
MC4R	18	58038564	58040001	1	1	34509
SLC39A10	2	196440701	196602426	277	23	50558
C10orf118	10	115880621	115933979	89	8	53260
CTRB2	16	75237994	75241083	7	3	48403
TSPAN19	12	85408094	85430055	21	4	51583
ZNF626	19	20802867	20844402	190	15	47122
PAQR5	15	69591286	69700119	186	15	44229
RAX	18	56934267	56941318	16	3	50073
ZNF780B	19	40534167	40562116	17	3	44407
NOS1AP	1	162039564	162353321	1012	58	49047
ZNF479	7	57187321	57207571	47	4	51046
MARC1	1	220960101	220987735	79	17	48008
MESP2	15	90303822	90321982	75	4	53347
AGPAT5	8	6565878	6617184	136	13	48975
LGMN	14	93170152	93215047	82	16	48065
OR2F2	7	143632259	143633372	7	2	46987
DLG2	11	83166055	85338966	5383	163	50075
MFI2	3	196715492	196756687	98	21	44910
SERPINA12	14	94953611	94984181	125	22	48366
ZNF644	1	91380859	91487829	155	11	50043
EVC	4	5712924	5830772	536	59	49892
NADK	1	1682671	1711896	38	3	45957
SESN3	11	94898704	94965705	82	11	46352
A4GNT	3	137842560	137851229	16	2	48505
ATP2A1	16	28889726	28915830	22	3	48736
FAM167A	8	11278972	11332224	263	21	50099
CALN1	7	71244476	71912136	1671	58	48798
ABCA8	17	66863433	66951533	169	17	49202
AC090616..	17	30468245	30470154	3	1	48476
ZBTB8OS	1	33065773	33116504	101	5	41980
PRDM9	5	23507264	23528706	28	8	43644
FAM129C	19	17634110	17664648	66	14	43497
TPRG1	3	188665003	189043093	529	42	48192
PELO	5	52083774	52099880	35	8	50037
ZNF234	19	44645710	44663156	18	3	51479
C11orf87	11	109292846	109299840	3	1	44870
OR8K1	11	56113421	56114507	4	2	44818
KLHDC10	7	129710350	129775560	148	15	51331
HRH2	5	175085033	175113245	36	7	39122
TRAT1	3	108541545	108573852	73	14	48357
CENPU	4	185615772	185655287	246	5	52561
KLHL21	1	6650784	6674667	39	8	47141
CTGF	6	132269316	132272513	1	1	30348
SLC39A7	6	33168222	33172216	3	2	47767
RTP1	3	186915274	186919253	5	2	44212
HNRNPUL1	19	41768401	41813503	58	5	49086
WFDC10A	20	44258165	44259835	7	2	54011
LGALS16	19	40146534	40151287	7	2	49242
RP11-187E	14	32414059	32419588	37	5	52381
PAQR3	4	79808281	79860592	119	5	51642

CTB-50L17.	19	4528439	4540079	30	5	40337
MMAB	12	109991542	110011679	69	9	54501
CD68	17	7482785	7485429	7	4	47420
TOLLIP	11	1295601	1330884	96	17	49082
RASA1	5	86563705	86687748	126	10	41217
CYP4F3	19	15751707	15773635	138	12	50911
TIRAP	11	126152960	126168740	51	12	49820
ITGA1	5	52083730	52255040	497	56	51379
C17orf64	17	58469790	58508782	37	3	43374
HIST1H4J	6	27791884	27792257	1	1	51564
BAG1	9	33247818	33264761	17	3	50165
GOLGA5	14	93260576	93306308	147	11	52921
GON4L	1	155719508	155829191	132	9	47471
BRD4	19	15347647	15443356	70	7	49773
RP11-595B	18	19668021	19678741	47	7	50416
ACTL8	1	18081808	18153558	174	17	50451
AHSP	16	31539185	31540124	4	2	51368
MDFI	6	41604620	41621984	76	14	41391
ABRACL	6	139349819	139364439	42	9	50007
NUAK2	1	205271187	205290883	43	10	48266
HMHB1	5	143191726	143200284	16	6	51910
PLEK	2	68592305	68624585	152	13	48080
MTHFS	15	80125927	80189721	163	20	52404
HIST1H1T	6	26107640	26108364	2	1	44117
LY6D	8	143866296	143868008	6	2	48390
RP11-484N	3	118866222	118906654	142	23	51596
SSRP1	11	57093459	57103351	17	3	49996
NEDD4L	18	55711599	56068772	951	79	49391
KCNC2	12	75433857	75603648	402	32	51684
CTC-435M1	19	41856758	41930906	149	8	48510
TNFRSF11A	18	59992520	60058516	223	37	50014
DENND2C	1	115125469	115213043	165	18	50290
CBX2	17	77751931	77761782	9	4	38431
XKR7	20	30555805	30591190	58	14	45785
FUT10	8	33228342	33330940	271	16	51739
DZIP1	13	96230457	96296957	68	14	49922
SERPINA11	14	94908801	94919127	35	7	50782
ZDHHC17	12	77157368	77247476	288	13	44584
RABGEF1	7	66147151	66276451	355	15	53387
TBC1D12	10	96162261	96295687	181	16	50687
PHAX	5	125935960	125962944	73	7	45018
HDHD3	9	116135699	116139279	16	4	50529
INSC	11	15133970	15268754	369	40	49807
SEMA7A	15	74701630	74726808	60	12	43277
ZNF781	19	38158652	38183223	51	9	50258
SOGA3	6	127759551	127840146	176	19	49303
SOGA3	6	127759551	127840500	176	19	49303
MAFB	20	39314488	39317880	2	1	51986
C11orf74	11	36616051	36694823	258	10	47228
MED28	4	17616254	17635728	54	5	44688
ZNF575	19	44029649	44040282	19	6	51124

MSRB2	10	23384435	23410942	55	8	49912
C10orf88	10	124690419	124713919	27	6	46886
ABI2	2	204192942	204312446	114	14	47132
CCDC158	4	77234154	77343021	174	16	50623
PDE7B	6	136172834	136516712	432	36	47451
PNPLA8	7	108110866	108210110	212	20	50314
KLK15	19	51328545	51340469	34	10	45590
DAW1	2	228735770	228789060	192	14	53256
C15orf26	15	81299374	81441516	310	22	48340
CLDN20	6	155585147	155597682	60	8	49795
ZNHIT2	11	64883875	64885170	1	1	50467
WDR45B	17	80572438	80606429	87	13	51271
ACKR4	3	132316081	132337811	27	7	49569
COL25A1	4	109731877	110223813	1266	62	48753
MRPL28	16	417384	420527	11	3	48883
CTNNAL1	9	111704851	111775809	197	20	50980
OR5K1	3	98188324	98189420	2	1	45074
ZNF812	19	9800600	9811452	38	4	51600
NCAM2	21	22370633	22915650	1527	82	49783
AL590822.1	1	2121237	2123179	3	2	36417
LRRC39	1	100614409	100643771	38	9	47018
FEV	2	219845809	219850379	1	1	31907
DMC1	22	38914954	38966291	66	13	44621
GGA1	22	38004481	38029571	32	5	35570
ESRP1	8	95653302	95719694	207	13	51124
SNX7	1	99127236	99226056	285	15	51705
MRPS27	5	71515236	71616473	130	15	48054
AC091948.	5	147698550	147701891	1	1	55857
SUGCT	7	40174575	40900362	1064	58	50131
KLHL33	14	20896970	20903801	24	6	50665
ZNF233	19	44754318	44779470	36	5	49840
CRYZL1	21	34961647	35016232	48	12	49195
PSMA6	14	35747839	35786699	111	13	50910
ASB18	2	237102095	237173052	231	13	51211
ADRM1	20	60877149	60883918	15	4	38414
CEACAM5	19	42212504	42233718	45	8	50908
ZMYND19	9	140476531	140484942	8	1	53451
RP11-87C1	12	122326715	122359376	69	9	49868
FLOT2	17	27206353	27224697	22	4	44569
CHRNA7	15	32322691	32464722	219	30	46419
RPP30	10	92631473	92668312	66	8	48418
TAS1R2	1	19166093	19186176	88	15	48518
UTP18	17	49337889	49375297	69	9	49446
MCIDAS	5	54515442	54523143	18	4	49676
RP11-293I1	12	72067984	72092748	30	6	46248
C3orf18	3	50595462	50608458	11	3	48607
FCRL6	1	159770301	159786041	42	5	46273
ANO4	12	101111304	101522419	1174	82	51296
SHKBP1	19	41082757	41097305	36	9	45591
C18orf64	18	6511415	6590652	234	37	46717
RORB	9	77112281	77308093	388	34	48873

PI4K2B	4	25162263	25280714	302	24	48563
TMEM38A	19	16771938	16800840	60	9	47758
C2orf72	2	231902205	231914434	30	6	46352
CIB1	15	90773207	90777279	14	2	51553
CALCR	7	93053799	93204042	308	23	49208
TNIK	3	170779128	171178197	939	98	49369
CDH10	5	24487209	24645087	443	26	48977
LRRC7	1	70034081	70617628	1427	62	51021
OR10H4	19	16059818	16060768	5	1	54758
METTL2	16	8715540	8740081	47	8	50118
PELI2	14	56584532	56768244	485	17	51996
AL583828.1	6	13469513	13486415	27	7	46133
GIMAP4	7	150264365	150271041	16	4	52855
CHKB-CPT1	22	51007298	51021394	57	9	43715
ZNF804A	2	185463093	185804219	645	23	50146
OAS1	12	113344582	113369990	94	3	47931
DENND3	8	142127377	142205907	142	26	47900
SERAC1	6	158530536	158589312	107	15	50082
FAM118A	22	45704849	45737836	87	9	48656
PRDX1	1	45976708	45988719	31	3	51192
HUG1	10	102882536	102883624	3	2	48324
HARBI1	11	46624411	46639459	9	2	49822
WSCD1	17	5675554	6027747	1079	118	47922
PRSS23	11	86502101	86663952	538	48	51263
CPB1	3	148508889	148577974	209	35	49308
LSM4	19	18417040	18434084	40	8	46711
TBC1D8	2	101624079	101869328	537	30	52134
PLEKHH3	17	40819932	40829048	6	2	51077
PCDHA12	5	140255058	140391929	225	16	49065
BTLA	3	112182815	112218408	41	5	45890
PRKAR2A	3	48782030	48885279	60	8	47004
CDO1	5	115140430	115152651	8	4	45376
UBE2G1	17	4172554	4269923	109	6	47570
HILPDA	7	128095903	128098472	6	3	46193
SFXN3	10	102790991	102800998	16	8	46220
GNB2L1	5	180663909	180675096	37	5	45567
CLN6	15	68499330	68549549	63	4	50361
IRS2	13	110406184	110438915	85	13	49587
FNDC1	6	159590429	159693141	327	12	49743
ZNF589	3	48282590	48340743	78	5	50669
KDM2B	12	121866900	122018920	211	18	45841
ASB16	17	42247815	42256451	14	2	49280
DDX23	12	49223547	49246625	31	5	48567
ZNF264	19	57702868	57724724	54	10	50201
SFTPA2	10	81315608	81320153	25	6	43376
LL22NC03-1	22	22901750	22909007	22	1	33715
RFC4	3	186507669	186524847	31	5	51555
LRRCC1	8	86019382	86058311	43	7	44404
RAD51D	17	33426811	33448541	25	8	48099
SULT1B1	4	70586880	70653679	178	18	50285
C3orf62	3	49306035	49315342	9	2	52142

CDCA8	1	38158090	38175391	43	8	47778
RAB40C	16	639357	679272	97	6	51992
PPP6R2	22	50781733	50883514	272	17	47363
UST	6	149068464	149398126	868	96	49279
ASPH	8	62413116	62627155	462	35	50799
HIST1H4E	6	26204858	26206266	12	4	50330
SFXN2	10	104474295	104503249	47	9	50110
ERCC5	13	103497194	103528345	66	10	48180
KCNN3	1	154669931	154842756	466	78	48166
MRGBP	20	61427805	61431945	12	4	41424
TAS2R9	12	10961693	10962767	1	1	37655
ZNF444	19	56643968	56672262	59	8	44102
SNX1	15	64386322	64438289	80	9	45761
FCRLB	1	161691353	161697933	29	7	46860
AGPAT1	6	32135989	32145873	20	8	49346
TFEC	7	115575202	115799950	484	30	52266
TSNAX-DIS	1	231664399	231954990	533	46	48288
CNTNAP1	17	40834631	40851832	20	4	50873
SLC2A4RG	20	62371214	62374858	10	2	46501
FTSJ2	7	2273866	2281840	23	8	47132
ME1	6	83920108	84140797	419	17	49583
ALKBH2	12	109525996	109531436	14	5	47936
FAM65B	6	24797601	25042238	761	62	48412
PHF20L1	8	133787618	133861052	94	10	50788
STK16	2	220110177	220115059	3	2	44329
NKAIN3	8	63161150	63912211	2108	62	50416
ECHDC1	6	127609855	127664754	110	12	48581
RPL13A	19	49990811	49995565	9	2	46123
DPF3	14	73086004	73360809	728	58	49722
CLEC12A	12	10103915	10148293	177	19	52513
SCFD2	4	53739149	54232242	910	56	49601
AUP1	2	74753772	74757066	3	1	36708
GMEB1	1	28995244	29045865	52	5	49627
REEP1	2	86441116	86565206	368	15	49640
NDUFAF2	5	60240956	60448853	402	17	52328
ICOSLG	21	45642874	45660849	59	10	48990
FAM179B	14	45431411	45543634	137	7	44527
PARP8	5	49961733	50142356	274	15	51179
GINS4	8	41386725	41402565	46	12	48933
ALAD	9	116148597	116163613	35	10	46694
NFKBIE	6	44225903	44233500	13	5	42106
OR9A2	7	142723245	142724282	1	1	43046
MT1G	16	56700643	56701977	9	4	49489
DMXL2	15	51739908	51915030	346	15	49674
IRF4	6	391739	411447	62	13	45997
FAM25C	10	49199649	49207818	2	1	36749
CCL18	17	34391640	34399392	12	3	43482
GLRX2	1	193065598	193075244	11	4	50090
AC092811.	1	225600404	225602040	3	1	50890
PLEK2	14	67853700	67878917	75	11	40170
DNTT	10	98064085	98098321	71	6	45422

ZBTB39	12	57392618	57400230	11	3	46731
SLFN14	17	33875144	33885117	37	8	46915
GDAP2	1	118406107	118472253	30	8	45967
AC009802.	18	61602042	61609601	19	3	47623
AICDA	12	8754762	8765467	17	3	42162
SRP14	15	40327940	40331389	12	4	48191
SPINK14	5	147549296	147554961	6	2	45001
PPP1R3C	10	93388199	93392811	6	4	45764
AC079210.	17	66539369	66542970	10	4	48632
CSNK1A1	5	148871760	148931007	70	11	48954
PRKDC	8	48685669	48872743	90	8	44372
SYNM	15	99638420	99675798	157	17	50245
HKR1	19	37803739	37860267	91	11	48866
VAMP4	1	171669300	171711387	92	9	51511
ZNF3	7	99661656	99680171	29	8	51078
JUN	1	59246465	59249785	2	1	46418
RAB11FIP4	17	29718642	29865236	352	38	47458
FAM162B	6	117073363	117086886	44	11	49791
OR56A3	11	5968570	5969591	2	1	52995
MPHOSPH9	12	123636867	123728561	212	9	47201
DEDD2	19	42702750	42724292	18	2	47613
C8orf58	8	22457114	22461663	5	2	48109
GPR133	12	131438452	131626014	701	53	48899
CDC6	17	38443885	38459171	13	3	41735
IL17A	6	52051185	52055436	8	3	43769
RAB40B	17	80612849	80656604	134	23	48250
AFAP1	4	7760441	7941653	856	36	49005
P4HA1	10	74766975	74856732	117	2	51293
SPON2	4	1160720	1202750	83	18	48500
JARID2	6	15246527	15522252	643	49	50671
SNX17	2	27593389	27599995	8	2	46275
SELPLG	12	109015686	109027735	35	12	41275
PHLDA3	1	201434620	201438365	10	4	41779
MED24	17	38175350	38217468	78	8	50240
RASGEF1C	5	179527795	179636153	388	56	48618
ALPI	2	233320833	233324742	12	3	49950
L34079.2	19	44058844	44097188	90	15	48444
AC037199.	19	51377552	51378040	1	1	46307
PRM1	16	11374693	11375207	1	1	38444
C5orf30	5	102594403	102614361	41	3	50426
BMPER	7	33944523	34195484	430	42	50588
ITCH	20	32951041	33099198	132	8	50194
ZKSCAN2	16	25247322	25269252	46	6	52707
RP11-94B1	18	73971121	73972069	1	1	52792
ZNF585B	19	37672481	37709055	47	8	49099
AKAP3	12	4724674	4758213	133	13	49774
HOXD1	2	177053307	177055688	3	1	52285
AP000304.	21	34956993	35284635	498	61	49336
PTTG2	4	37962056	37962746	1	1	49124
RP11-101E	9	131703757	131719300	10	1	52389
SDR42E2	16	22177618	22203075	29	6	45330

AC137056.	16	20499024	20500981	3	1	48978
KRT222	17	38810917	38821433	13	2	52340
MGAT5	2	134877554	135212192	781	66	47854
PPP2R2C	4	6322305	6565327	801	74	46656
GPAA1	8	145137493	145141119	4	1	39116
VAMP5	2	85811531	85820535	22	6	51083
CDKN1B	12	12867992	12875305	10	3	51471
ZNF689	16	30613879	30635333	7	3	47418
UBE2C	20	44441215	44445596	5	3	52496
ASB2	14	94400499	94443137	127	19	45645
BIN1	2	127805603	127864931	227	28	51835
GALNT3	2	166604101	166651192	50	8	48525
LRRC3DN	21	45879814	45882078	4	2	46900
MICALL2	7	1468101	1499138	91	8	40829
PMEL	12	56347889	56367101	13	4	50216
RALYL	8	85095022	85834079	1421	46	49897
C16orf97	16	52039399	52112386	143	21	49673
KIF1A	2	241653181	241759725	260	28	47418
GPR150	5	94955782	94957846	3	2	48574
FBXO48	2	68686551	68694390	6	1	47089
RPH3A	12	113008184	113336686	501	47	49756
STX1A	7	73113536	73134002	28	6	44944
RALGPS2	1	178694300	178889238	322	16	48931
SYCE1	10	135367404	135382876	100	4	50050
RP11-542P	4	141363416	141419531	161	12	51753
FMNL2	2	153191751	153506348	899	53	50006
GSDMD	8	144635377	144645232	34	8	48618
POR	7	75528518	75616173	146	27	47185
GFRA3	5	137588068	137610360	31	9	49941
ZNF649	19	52392477	52408293	35	5	47516
GNB1	1	1716729	1822495	73	7	47431
C19orf73	19	49621655	49622397	2	1	47900
DPH6	15	35509546	35838394	495	23	48468
VSIG10L	19	51834790	51845378	22	4	47943
GPR155	2	175296966	175351822	89	10	50042
MMP28	17	34083268	34122711	72	8	46194
GATA6	18	19749404	19782491	19	9	46288
AURKAIP1	1	1309110	1310875	1	1	39992
DNAH3	16	20944433	21170762	499	35	52140
IL4R	16	27324989	27376099	145	17	49737
KIAA0319L	1	35899091	36023551	39	4	38419
USP36	17	76783463	76837523	95	12	47897
CLEC7A	12	10269376	10282857	50	4	46097
CLRN3	10	129676105	129691211	44	15	47153
RAB2A	8	61429416	61536186	200	11	51294
ECH1	19	39306062	39322645	41	7	48000
DSEL	18	65173819	65184217	15	5	48900
KRTAP6-3	21	31964759	31965394	1	1	54445
PCNA	20	5095599	5107272	15	1	48262
C5orf38	5	2752245	2755508	4	2	40704
RP4-758J18	1	1334902	1337426	5	2	34131

KLHL35	11	75133438	75141674	6	3	46178
LYPD3	19	43964939	43969812	11	4	43829
PLA2G15	16	68279207	68294961	26	4	49572
DUOXA2	15	45406519	45410619	7	1	40478
FAM171A1	10	15253642	15413061	531	42	49177
ZNF225	19	44616334	44637027	31	4	47364
GLRA3	4	175558065	175750465	653	49	49983
PTPRO	12	15475331	15750333	535	41	50197
VCP	9	35056061	35073246	31	7	45448
AC021218.	7	155755326	155759037	7	2	46959
AC007382.	2	37068327	37068530	1	1	46878
SCYL2	12	100660918	100735502	100	10	49705
MED4	13	48627459	48669267	119	16	48503
RAD18	3	8817088	9005457	704	31	49368
TET2	4	106067032	106200973	247	31	45449
OAS3	12	113376157	113411054	93	9	49963
AKAP8L	19	15490859	15529952	49	3	48356
ZNF687	1	151254094	151264656	7	2	48506
FAP	2	163027194	163101661	17	6	41729
CEND1	11	787104	790123	5	2	51188
SLC25A39	17	42396993	42402238	13	4	43709
ACTL7B	9	111616871	111619239	11	4	48972
CTC-512J12	19	44833848	44905774	243	28	46553
PCDHA11	5	140248689	140391929	234	17	49002
DOLPP1	9	131843379	131852717	5	1	45896
CYCS	7	25159710	25164980	7	2	52888
PRED60	21	47183565	47190005	7	2	50942
EMILIN2	18	2847028	2915991	145	33	43116
PGF	14	75408537	75422487	11	4	42087
BTBD19	1	45274154	45281257	12	3	50727
PTGR2	14	74318547	74353530	121	10	49577
ZBED6CL	7	150026938	150029808	3	1	54207
AMPH	7	38423305	38671167	1002	64	51037
PPIF	10	81107225	81115093	15	5	43632
GALE	1	24122089	24127271	1	1	40499
AKR1A1	1	46016215	46035721	31	5	50205
PLEC	8	144989321	145050902	112	3	40683
BBIP1	10	112658488	112679032	39	10	48502
UACA	15	70946893	71055932	124	8	47062
HIST1H3H	6	27777842	27778314	1	1	45658
COX6B1	19	36139125	36149763	24	6	49081
NF1	17	29421945	29709134	284	5	47088
RRP12	10	99116115	99161127	159	6	52866
BCL6B	17	6926339	6933609	8	3	46253
GCC2	2	109065017	109125871	154	12	48793
KEAP1	19	10596796	10614417	38	5	49812
SCAMP2	15	75136071	75165706	35	8	44705
RPL11	1	24018269	24022915	4	2	45216
TLR9	3	52255097	52265206	10	5	46359
MKRN3	15	23810454	23873064	121	10	50525
ZNF227	19	44711700	44741421	23	5	48564

ALG12	22	50293877	50312106	60	3	52886
AASDHPPT	11	105946228	105969437	31	6	45326
FBXO16	8	28205804	28347835	180	27	45251
FAM222B	17	27082996	27182250	123	6	51225
CISD1	10	60028818	60049346	51	4	49168
MYH7	14	23881947	23904927	55	8	46878
HTR3A	11	113845603	113861035	44	8	48159
KRI1	19	10663761	10676713	48	7	48849
MAMDC4	9	139745395	139755249	7	2	47435
CREG1	1	167498914	167523004	104	18	49618
OR8U1	11	56143100	56144029	7	3	46272
SLC9A1	1	27425306	27493472	55	4	50158
ZNF48	16	30389427	30411429	29	4	45529
LRRC14B	5	191626	195468	9	2	48067
USH2A	1	215796236	216596738	1875	124	49338
RP11-181C	12	98879322	98897633	55	11	49378
GCFC2	2	75879126	75938115	117	11	49420
SHCBP1L	1	182869000	182922660	59	8	48208
PI15	8	75736772	75767264	67	11	49017
ORAOV1	11	69467844	69490184	16	5	42420
CDHR5	11	616565	626078	36	8	44235
KLK13	19	51559463	51568371	23	5	46588
EIF4G3	1	21132963	21503377	575	19	49725
STXBP6	14	25278862	25519503	711	51	50509
HMGCR	5	74632154	74657929	36	6	52503
ATL3	11	63391559	63439393	51	4	48267
TBRG1	11	124492732	124505287	14	4	38191
PI3	20	43803517	43805185	14	2	50658
PDAP1	7	98989671	99006452	17	3	48173
CCNY	10	35535953	35860852	388	18	48852
CUL5	11	107879459	107978503	175	15	50858
CORO1A	16	30194148	30200397	5	2	43476
RPS24	10	79793518	79816570	31	5	45269
TSR1	17	2225797	2240801	20	6	46939
POLH	6	43543887	43586701	46	8	44109
FKBP3	14	45584803	45604522	15	3	44170
ZNF24	18	32912176	32925446	22	5	43229
SOX17	8	55370495	55373448	6	2	50984
RCAN3	1	24829387	24867530	99	13	47080
EMP1	12	13349650	13369708	44	11	48484
KRTCAP3	2	27665233	27669348	3	1	47127
LYSMD4	15	100255902	100273766	42	7	51890
PKD2L2	5	137223657	137278436	76	11	47276
CYP1B1	2	38294116	38337044	128	18	48677
RPS27	1	153963235	153964626	2	1	32498
DVL2	17	7128660	7137864	10	3	48472
COMP	19	18893583	18902123	11	4	45315
SRCIN1	17	36686251	36762183	105	11	47714
ACAN	15	89346674	89418585	206	32	47468
NCR3LG1	11	17373273	17398888	55	9	50018
MYBPC1	12	101962131	102079796	337	28	50500

DDB1	11	61066923	61110068	8	4	35368
HES7	17	8023908	8027410	9	4	43045
LRRC57	15	42834720	42841000	9	4	46490
TMEM56-R	1	95583479	95712781	337	24	50883
CGB	19	49526126	49527590	1	1	53692
RASAL1	12	113536624	113574044	119	8	49713
STAT5B	17	40351186	40428725	69	9	45533
ERICH2	2	171640296	171655481	39	5	49993
LIN7A	12	81186299	81331704	369	22	49676
VILL	3	38029550	38048679	53	6	46952
SLC20A1	2	113403434	113421404	32	6	48277
MMP14	14	23305766	23318236	29	9	43454
ZNF785	16	30585061	30597092	7	3	42351
KBTBD3	11	105921825	105948492	48	8	48174
SCLT1	4	129786076	130014764	385	22	50896
DMBT1	10	124320181	124403252	246	12	43464
MYL9	20	35169887	35178228	5	3	41838
MOCS2	5	52391509	52405893	50	7	53325
KCNJ12	17	21279509	21323179	26	7	39798
ZNF506	19	19896648	19932560	70	9	49561
LRRC31	3	169556967	169587718	70	9	51293
IAH1	2	9613787	9636672	55	6	49510
ITPKC	19	41223008	41246765	56	9	49496
OR8D1	11	124179708	124180733	5	2	47453
CLEC16A	16	11038345	11276046	593	25	50982
UBE2J2	1	1189289	1209265	23	2	41217
ADNP2	18	77866915	77905406	116	10	52590
HRG	3	186378005	186396029	43	8	49810
S100A4	1	153516089	153522612	26	2	43170
CAST	5	95860971	96115299	756	59	50633
CCDC11	18	47753563	47792892	85	8	52078
RMND1	6	151725989	151773259	150	14	51540
CDHR4	3	49828165	49837268	16	6	48540
CCDC129	7	31553704	31698334	390	28	50993
CETN1	18	580367	581524	3	1	47006
PSD4	2	113914902	113966973	146	29	45421
HLA-DPA1	6	33032346	33048552	223	8	41609
ZNF284	19	44576297	44593766	33	4	50504
ETV1	7	13930853	14031050	347	42	48129
TRIM49D1	11	89644279	89654935	8	3	47871
EML5	14	89078775	89259096	295	16	48520
MAP2K7	19	7968728	7979363	29	9	43804
TPD52L2	20	62496596	62522898	57	8	43287
OR2F1	7	143657027	143658108	3	1	49385
CREG2	2	101962013	102004057	107	11	50214
HINT1	5	130494720	130507428	39	3	43166
HEXA	15	72635775	72668817	42	4	44227
DEFB116	20	29891015	29896388	9	2	47287
BOLA3	2	74362525	74375121	25	4	51438
OR5J2	11	55944094	55945032	1	1	47999
GSR	8	30535583	30585443	112	12	49216

AQP8	16	25227052	25240261	50	5	46530
COQ2	4	84182689	84206067	39	4	45374
SIGIRR	11	405716	417455	22	5	39125
NCK2	2	106361354	106510730	497	30	49980
APOA1	11	116706467	116708666	8	3	42845
GPR89B	1	147400506	147465753	5	1	39497
INPP4A	2	99061317	99210853	204	10	51244
AC138647.	8	142524738	142528837	16	4	48009
FAM19A2	12	62102040	62672931	1501	83	52018
LSAMP	3	115521235	117716095	5643	273	49354
BRAP	12	112079950	112123790	28	4	43582
LHX8	1	75594119	75627218	50	8	48185
HES3	1	6304252	6305638	3	1	48909
HMG4	6	26538633	26546482	16	4	50294
RP11-529K	16	70333097	70400163	45	13	44021
NRBP2	8	144915764	144924200	8	3	44300
RASA3	13	114747194	114898086	528	27	48372
CMPK2	2	6980701	7006766	12	4	40079
KAT6A	8	41786997	41909508	132	10	50830
KCNK4	11	64058774	64067503	5	1	45861
ZFAND3	6	37787275	38122400	816	20	51495
RASAL3	19	15562435	15575382	11	5	42461
RUSC1	1	155290687	155300905	2	1	43930
HNRNPH1	5	179041179	179061785	47	9	49719
CST9L	20	23545369	23549386	21	2	51402
POLA2	11	65029233	65073060	36	5	46669
ACSL1	4	185676749	185747972	194	20	47459
PRODH	22	18900294	18924066	81	13	42271
NUP188	9	131709978	131769375	48	4	46752
CDH20	18	59000815	59223006	468	90	45787
IFNE	9	21480841	21482312	3	1	52475
PSMD2	3	184016497	184026842	17	5	47347
TYR	11	88910620	89028927	281	15	49998
MUC17	7	100663353	100702020	90	13	49860
SNTB1	8	121547985	121825513	702	45	48901
OR52A1	11	5172239	5207612	128	9	50445
WISP3	6	112375275	112392171	27	6	49392
AP001925.	11	108130255	108136480	3	1	48626
PRMT6	1	107599267	107601916	2	1	48001
MAP2K5	15	67835047	68099461	516	21	49277
ERBB3	12	56473641	56497289	26	6	48503
SIDT1	3	113251143	113348425	284	26	48013
CECR2	22	17840837	18037850	629	68	47036
POLE3	9	116169515	116172952	5	1	52047
MMP7	11	102391239	102401484	26	5	49775
PPP4R1	18	9546789	9615238	171	19	51264
BTNL3	5	180415845	180433727	20	4	43817
CCDC15	11	124824017	124911385	236	18	51668
LRIF1	1	111489807	111506701	17	6	50376
LEMD1	1	205350506	205425082	175	26	48230
C10orf32	10	104613980	104624718	23	6	50635

FGL2	7	76822688	76829143	3	2	48016
CDKN2D	19	10677138	10679735	5	2	49466
YTHDF2	1	29063133	29096287	39	6	48377
ZFP62	5	180274611	180288286	37	5	40953
MS4A15	11	60524426	60544205	28	9	44757
IPCEF1	6	154475631	154677926	645	54	48938
FBXO7	22	32870663	32894818	73	8	52968
ZNF79	9	130186661	130207651	43	4	51167
MYO3B	2	171034655	171511681	1414	132	48744
SHF	15	45459412	45493373	46	7	48233
BMP1	8	22022249	22069839	121	16	40211
KRCC1	2	88326724	88355248	32	6	40608
ASAP3	1	23755056	23811061	101	11	47808
KIF3B	20	30865467	30922814	63	6	47704
STYXL1	7	75625656	75677322	97	13	46431
RAB12	18	8609443	8639379	83	8	51073
TP53BP1	15	43699407	43802926	178	9	48672
NFIA	1	61330931	61928465	1223	136	47243
ABHD14A- <i>l</i>	3	52009066	52023199	7	4	36425
ACY1	3	52009066	52023213	7	4	36425
CCDC102B	18	66382446	66722426	866	50	46877
ATMIN	16	81069452	81080963	23	3	45905
GPR63	6	97242002	97285353	106	13	51859
FAR1	11	13690217	13753893	113	18	51764
AC019171.	2	39186764	39187483	3	2	44138
LDLRAD4	18	13217497	13652754	1024	100	48337
HS3ST4	16	25703347	26149009	1432	141	50106
MROH1	8	145202919	145316843	59	7	39842
LECT2	5	135257968	135290723	125	15	47306
C12orf43	12	121440225	121454305	57	12	50035
WDR62	19	36545783	36596008	108	15	50736
XPA	9	100437191	100459639	23	8	51791
C11orf65	11	108179246	108338258	209	13	48337
SLC4A1AP	2	27886338	27917840	19	7	47116
ACTBL2	5	56775846	56778636	4	2	49496
C17orf66	17	34181955	34195895	21	4	48670
ZNF99	19	22939007	22966909	131	7	50553
SFT2D2	1	168195176	168222263	34	4	48868
TECPR1	7	97843936	97881563	88	9	49957
ARHGAP26	5	142149949	142608576	933	68	46745
SHOX2	3	157814948	157824292	24	3	51818
HBQ1	16	230452	231180	3	1	41180
SLC37A2	11	124932963	124959131	119	23	50630
KLHDC7A	1	18807424	18812478	25	6	51170
KIAA1211	4	57036361	57194791	446	60	48757
LRIT1	10	85991349	86001217	33	6	47307
SBDS	7	66452664	66460588	21	9	45239
RERGL	12	18233803	18473041	726	38	52372
CHD4	12	6679249	6716642	51	4	43499
ENOSF1	18	670324	712676	191	14	51963
RNASE3	14	21359558	21360507	3	1	45689

ZNF804B	7	88388682	88966346	1761	74	50842
QSOX2	9	139098179	139137687	91	12	43104
AACS	12	125549925	125627873	168	22	50551
ZNF764	16	30565085	30569819	4	2	43519
PSORS1C1	6	31082527	31107869	278	21	49729
LIMK1	7	73497263	73536855	52	6	44912
OR52B6	11	5602107	5603114	7	2	44794
PLD1	3	171318195	171528740	425	16	51687
ATOX1	5	151121877	151152093	46	6	50757
TSKS	19	50243010	50266587	36	7	34601
COX4I2	20	30225691	30232809	14	2	48427
MLLT6	17	36861795	36886056	18	7	46799
BTBD3	20	11871371	11907257	74	6	52290
ZNF679	7	63688852	63727309	141	16	49361
DYSF	2	71680852	71913898	721	78	48025
TRMT112	11	64083932	64085556	3	1	44710
PGM2	4	37828255	37864558	151	14	45914
DLAT	11	111895538	111935114	25	2	46079
GALNTL6	4	172733405	173962710	2329	85	49806
ZDHHC12	9	131483148	131486406	4	2	33337
ADIPOQ	3	186560463	186576252	49	13	50399
PTPRT	20	40701392	41818610	2904	211	49690
TUBA3E	2	130949318	130956034	4	1	45559
C15orf39	15	75487984	75504510	11	3	44688
ZNF582	19	56887413	56904914	38	12	47059
TMEM158	3	45265958	45267770	3	2	45376
TP53I3	2	24300303	24308731	18	5	52336
HDGFRP3	15	83784320	83876770	134	9	51717
KNTC1	12	123011793	123110943	151	14	50644
ME2	18	48405419	48474691	104	11	47882
SLC26A11	17	78193498	78227299	108	15	50499
AC061992.	17	76422409	76422834	2	1	48494
ZNF302	19	35168544	35177302	34	6	50421
CSF3	17	38171614	38174066	10	3	51335
SLC35C2	20	44978167	44993043	15	4	44568
TINAGL1	1	32042116	32053288	7	3	49131
AC003102.	17	42325758	42327236	2	1	37401
SNAI1	20	48599536	48605423	26	3	49434
LBX1	10	102986733	102989551	2	1	51232
WFDC13	20	44330655	44337456	17	6	47402
FAM217A	6	4049668	4087578	104	10	50338
CD5	11	60869867	60895324	37	7	48359
PPFIA4	1	202995626	203047868	152	21	51744
C15orf59	15	74032141	74045088	30	10	47101
PSMG2	18	12658737	12725739	152	11	53817
C17orf78	17	35732928	35749662	17	6	45856
DVL3	3	183873176	183891398	26	8	47641
MARCH11	5	16067248	16180871	153	19	49716
CAMKK2	12	121675497	121736111	159	26	48620
COG5	7	106842000	107204959	633	14	52304
MTHFSD	16	86563782	86588841	91	12	51453

ANKRD32	5	93954052	94075141	289	16	51707
ZNF704	8	81540686	81787016	267	11	48252
MEP1B	18	29765032	29800367	93	12	49443
SPATA24	5	138732252	138739777	5	1	44803
CEP19	3	196433148	196439164	23	3	48086
IL17RB	3	53880607	53899827	58	10	47760
FLVCR1	1	213031597	213072705	198	13	51642
ZNF573	19	38226734	38307940	139	17	50674
KIR3DL1	19	55235969	55378448	56	8	39442
C16orf52	16	22018959	22098855	55	7	49108
FSD1L	9	108210077	108314714	168	19	52078
SETX	9	135136743	135230372	306	12	47554
PROX2	14	75319736	75330537	18	4	51207
NNMT	11	114128509	114184007	110	17	46841
WDR63	1	85464830	85598821	337	30	51352
PTCD3	2	86333305	86369280	83	9	46900
CLC	19	40221890	40228668	39	3	49950
RXFP1	4	159236463	159574524	806	18	49466
VCL	10	75757872	75879918	130	14	47476
GUCA1B	6	42152139	42162654	49	4	50104
HIAT1	1	100503653	100548933	116	13	45282
SLC39A5	12	56623833	56631630	9	2	47639
CASQ2	1	116242628	116311402	297	17	50986
SMAD3	15	67356101	67487533	350	51	50829
RNH1	11	494512	507300	52	7	46758
MAN2B1	19	12757325	12777556	18	4	44368
SAP18	13	21714653	21723221	16	5	49615
TSNAX	1	231664399	231702270	43	10	48682
ABCA10	17	67143355	67240987	198	13	51162
MTHFD1L	6	151186685	151423023	929	75	48622
KIF4B	5	154393260	154397685	7	3	43870
SLIT1	10	98757795	98945677	486	50	48698
DHX15	4	24519064	24586173	135	15	47973
CCDC167	6	37450696	37467698	32	8	49476
WDR48	3	39093489	39138155	107	15	49030
MXD3	5	176728462	176739758	23	8	43766
COBLL1	2	165510134	165700189	490	29	50807
GALNT14	2	31133333	31378068	702	51	49318
TMEM206	1	212537273	212588243	107	17	49538
CCNH	5	86687311	86708836	21	4	37562
CCDC34	11	27352374	27385415	74	12	51066
FGFR3	4	1795034	1810599	25	5	35949
ZNF514	2	95813075	95831158	11	4	43586
STT3A	11	125461607	125495110	140	9	50632
ARVCF	22	19957419	20004331	174	20	48661
CTD-3088G	16	11453702	11617444	852	59	50168
AC007956.	14	75158879	75179800	25	3	49101
TRIM64C	11	49075266	49080664	14	4	47453
MPP3	17	41878167	41910538	40	4	48309
GPT2	16	46918290	46965209	22	3	44476
CDC37	19	10501810	10530797	55	8	50697

MARVELD1	10	99472930	99477907	5	2	49536
ATG5	6	106632351	106773666	339	19	47465
ANP32E	1	150190717	150208504	21	3	49285
CRLF1	19	18683030	18718551	100	13	47976
CPSF2	14	92588281	92630755	92	9	52228
KCNK5	6	39156749	39197226	125	22	49949
PIK3R4	3	130397779	130465673	96	2	52805
COL6A5	3	130064359	130203688	336	17	48452
CDKN3	14	54863567	54886936	27	4	52922
SMIM15	5	60453536	60458301	6	4	49046
CLECL1	12	9868456	9885895	91	9	51119
DPPA2	3	109012635	109035364	46	12	48057
MAS1	6	160327974	160329108	1	1	49358
TRMT10A	4	100467866	100485189	62	10	50194
ANKRD30B	2	132905164	133015542	28	2	38296
BHLHE41	12	26272959	26278060	7	3	49352
UBE2E2	3	23244511	23633284	1138	23	52346
PLA2G2D	1	20438432	20446050	20	8	44434
OLFML1	11	7506619	7532608	105	13	52903
FAM83B	6	54711569	54806820	293	20	50075
MED10	5	6371994	6378707	18	4	52993
ABCA4	1	94458393	94586688	410	59	47745
BCL2L11	2	111876955	111926024	82	12	50982
C3AR1	12	8210898	8219067	9	3	45434
PIP5KL1	9	130683158	130693076	9	2	45657
PTPN6	12	7055631	7070479	15	4	39382
ELK4	1	205577071	205601090	47	8	49453
C1orf195	1	15490840	15497813	25	6	52928
DXO	6	31937587	31940069	9	5	43159
P4HTM	3	49027319	49044587	11	3	46070
PNPLA3	22	44319619	44360368	158	14	49079
PADI1	1	17531621	17572500	131	32	46243
COL22A1	8	139600478	139926249	940	95	47600
ANKRD10	13	111530887	111567416	88	8	50776
DBNL	7	44084239	44109055	66	6	52621
NAA50	3	113435307	113465147	27	3	49064
DUSP4	8	29190581	29208185	44	8	48213
HAVCR1	5	156456424	156486130	93	13	51521
CADM1	11	115039938	115375675	508	39	49030
MRGPRX1	11	18955360	18961054	21	4	46299
ZDHHC14	6	157802165	158099178	967	71	46623
TMBIM4	12	66517697	66563765	83	6	44419
TMBIM4	12	66517709	66563852	83	6	44419
PTPRQ	12	80799774	81072802	597	42	46994
CLIC1	6	31698358	31707540	12	6	45496
GRINA	8	145064226	145067583	3	1	43723
ZNF223	19	44529506	44591471	111	7	50009
DMRT2	9	1050354	1057552	33	8	44952
BIRC6	2	32582096	32843966	345	27	44733
ACOT11	1	55007930	55104865	349	29	44839
RBM17	10	6130950	6159420	74	16	50754

SNRPF	12	96252706	96297606	147	19	51068
PRLR	5	35048861	35230794	485	35	48253
KB-1980E6	8	103540968	103550896	56	9	51321
NPDC1	9	139933922	139940655	8	3	39147
CYP46A1	14	100150641	100193638	104	13	50223
KLHDC8A	1	205305220	205326218	76	12	50838
KRTAP9-2	17	39382900	39383904	1	1	53085
PTPRU	1	29563028	29653325	200	28	46055
NLGN2	17	7308193	7323179	29	11	40662
PCSK2	20	17206752	17465223	835	47	50950
ST6GALNA4	1	77333126	77531396	397	30	48910
RBBP4	1	33116743	33151812	71	3	43049
TNFSF9	19	6531010	6535931	7	3	37727
HIST1H4L	6	27840926	27841289	1	1	55273
MBOAT7	19	54677107	54693733	38	10	42682
GUCY1A2	11	106544738	106889250	943	53	49588
LDLRAD2	1	22138758	22151714	37	14	45113
ACOXL	2	111490150	111875799	986	58	49812
TRAF4	17	27071002	27077974	6	2	49650
EXOC6	10	94590935	94819250	490	24	44992
BCAR1	16	75262928	75301951	151	14	45605
STAT3	17	40465342	40540586	124	10	51601
ALB	4	74262831	74287129	38	5	49714
CRABP1	15	78632666	78640572	17	6	44870
AREL1	14	75120140	75179818	54	4	49679
CAMK2N1	1	20808884	20812713	3	2	51120
IFNA21	9	21165636	21166659	3	2	35666
ARID3A	19	925781	975939	149	18	38924
C1QTNF7	4	15341442	15447790	283	15	49892
ATP5E	20	57600522	57607437	9	4	47558
BCL7B	7	72950686	72972332	27	3	50891
NEDD1	12	97301001	97347129	70	7	51952
SCN11A	3	38887260	38992052	211	20	50189
FZD9	7	72848109	72850450	2	1	47496
TUSC3	8	15274724	15624158	1402	56	50253
RERE	1	8412457	8877702	609	20	49639
BEND3	6	107386386	107436473	110	16	48995
TRUB2	9	131071382	131085021	14	4	44839
MDGA2	14	47311134	48143999	2227	70	52029
MEA1	6	42979832	42981706	4	2	44534
RP11-1070	14	95982473	95984248	7	3	53091
FOXP4	6	41514164	41570122	134	15	48369
CALML3	10	5566924	5568225	5	2	43801
BICD1	12	32259769	32536567	1058	53	51875
TPMT	6	18128542	18155305	79	12	50368
PGBD3	10	50723151	50747086	64	13	48368
ERCC6-PGB	10	50723247	50747584	64	13	48368
RGS17	6	153325594	153452384	373	18	52526
RP11-680G	16	85391069	85393055	6	3	41153
UCK1	9	134399188	134406655	13	3	48216
EFHC1	6	52285106	52387892	303	28	48724

MED25	19	50321539	50342073	29	6	45219
PDIA2	16	333152	337215	14	5	41084
STK3	8	99413631	99955055	577	30	50395
CCDC176	14	74486056	74549566	189	15	50179
TMEM161/	19	19229978	19249322	40	7	51239
AGPAT9	4	84457067	84527028	152	12	52763
SLITRK1	13	84451344	84456528	5	2	38604
RAB42	1	28918712	28921955	6	3	41317
RNF5	6	32146131	32151930	19	6	48478
PRPF4B	6	4021501	4065217	107	9	49856
ATP2A3	17	3827169	3867736	120	13	44277
OR6F1	1	247875045	247876105	7	3	47802
CACNA2D4	12	1901123	2028002	373	36	48476
RP11-796G	14	102196774	102198859	7	1	51936
TAAR5	6	132909731	132910877	2	1	47611
GID8	20	61569471	61576996	14	4	47707
SNRPD1	18	19192228	19210417	18	3	48715
CCNI2	5	132083137	132089856	6	2	36711
BAZ1B	7	72854728	72936608	93	9	49166
C3orf83	3	12556433	12602558	123	14	45899
PINLYP	19	44080952	44088116	25	7	49002
MEST	7	130126012	130146133	35	8	46296
ZBP2	17	38024417	38034149	27	3	51910
ZNHIT3	17	34842473	34855154	17	4	51258
HIGD2A	5	175815748	175816772	5	2	48757
CASP8	2	202098166	202152434	137	21	49531
PCED1B	12	47473386	47630443	432	37	49110
LRRFIP2	3	37094117	37225180	197	11	49445
SRSF4	1	29474255	29508499	57	11	44564
OR2M5	1	248308450	248309388	2	1	50282
PWP1	12	108079509	108106944	64	9	48865
HECTD4	12	112597992	112819896	164	11	46952
CHI3L2	1	111743393	111786062	128	18	48312
EIF4G2	11	10818597	10830657	22	4	47392
ZNF230	19	44507100	44518078	15	3	49826
GPR78	4	8560452	8621486	301	34	45011
E4F1	16	2273567	2285743	12	3	43957
LATS1	6	149979289	150039392	73	3	45276
KLK14	19	51580752	51587502	25	5	49081
TMEM222	1	27648651	27662891	27	6	42780
C16orf46	16	81087102	81110872	58	5	48862
SMC6	2	17845079	17981509	243	21	48568
SLC16A7	12	59989848	60176395	397	21	51696
EMC2	8	109455830	109499145	116	9	52229
HBG2	11	5274420	5667019	1801	87	50551
DPYSL3	5	146770374	146889619	98	18	49676
C6orf229	6	24797549	24799117	3	2	38134
PIH1D2	11	111934734	111944998	4	2	40198
RPS27A	2	55459039	55462989	12	5	47977
TMTC2	12	83080659	83528649	1078	68	49123
SMARCE1	17	38781214	38804760	29	5	45801

GGT6	17	4460222	4464113	8	3	41327
AFAP1L1	5	148651434	148721365	146	27	46981
MRVI1	11	10594638	10715535	348	38	47696
GIPC2	1	78445226	78604133	353	29	49054
ADH7	4	100333418	100356894	54	14	49771
OR1I1	19	15197791	15199032	9	2	50760
SKAP2	7	26706681	27034858	736	19	51943
ANXA6	5	150480273	150537443	205	36	49974
CHST9	18	24495595	24765281	675	37	50324
G RTP1	13	113978505	114018446	93	13	46561
ZCCHC17	1	31769842	31837783	133	7	51101
DDR1	6	30844198	30867933	66	10	43412
TJP2	9	71736209	71870124	429	36	51922
SULF2	20	46285092	46415360	500	78	48974
VANGL1	1	116184574	116240845	173	28	51155
ZNF354B	5	178286954	178315123	177	7	53753
AL136376.1	1	116915890	116926718	17	4	39628
GPR52	1	174417212	174418683	1	1	30891
PRR25	16	855443	863861	12	3	34330
PALM2-AK1	9	112542589	112934792	1079	98	49690
AKAP2	9	112542769	112934792	1079	98	49690
DUSP23	1	159750722	159752333	2	1	50728
HSPBP1	19	55773599	55791749	31	7	46689
C15orf38	15	90443159	90456188	28	7	47402
DLGAP4	20	34894258	35157040	196	26	45802
ETV3L	1	157061836	157069600	29	8	48427
SGK1	6	134490384	134639250	373	54	48355
IPO5	13	98605912	98676551	82	8	41401
ARL16	17	79648204	79650954	9	2	50473
NOX4	11	89057524	89322779	424	29	49275
CACNB2	10	18429606	18830798	1399	105	51036
MRPL22	5	154320630	154348971	55	8	43189
LUC7L	16	238968	279462	60	9	50174
HLA-DMA	6	32916390	32936871	88	17	47039
FBLIM1	1	16083102	16113089	57	9	48510
RP1-139D8	6	42123279	42131156	44	7	47634
C4orf17	4	100432161	100463460	129	20	48775
ZSCAN2	15	85144217	85171027	42	9	51238
PGA4	11	60989688	61018929	9	3	37904
PGA5	11	61008514	61018920	9	3	37904
ASB3	2	53897430	54087297	513	24	49677
MTMR3	22	30279144	30426855	321	20	50837
TOMM70A	3	100082275	100120242	73	12	46116
GLRA1	5	151202074	151304403	165	9	51181
GMCL1	2	70056774	70108528	67	5	50925
PPP1R2	3	195241221	195270209	65	8	41923
TMEM192	4	165995574	166129701	402	21	50726
Dec-01	9	117904097	118164923	818	50	50941
LILRB3	19	54720147	54746602	51	8	39473
LILRA6	19	54720737	54746649	51	8	39473
IFIT3	10	91087651	91100728	38	5	49741

UBQLNL	11	5535623	5537935	8	1	48477
RPS9	19	54704610	54752862	153	17	41301
FAM228B	2	24299396	24392509	269	18	51303
OR8B4	11	124293807	124294789	4	2	54086
ARL6	3	97483365	97519953	67	9	44502
SLC1A3	5	36606457	36688436	194	39	47008
S100Z	5	76145826	76217475	129	12	44595
ADAMTSL4	1	150521884	150533413	18	5	48974
LCE1D	1	152769227	152770657	1	1	37109
PROSC	8	37620111	37637283	8	4	43660
VAT1L	16	77822427	78014004	736	94	49039
ASB14	3	57302375	57326710	33	6	47822
NAIF1	9	130823512	130830485	5	1	44014
ZNF335	20	44577292	44600833	61	14	45523
FAM175B	10	126490354	126525239	50	8	46943
RBPJL	20	43935491	43945803	16	3	51467
CLASP1	2	122095352	122407163	632	10	48714
PDGFRB	5	149493400	149535435	110	19	47919
FAM126B	2	201838441	201936394	120	13	44745
DPEP3	16	68009566	68014732	6	3	44992
VPS8	3	184529931	184770402	362	20	47813
GSC	14	95234553	95236562	1	1	37185
NLE1	17	33455772	33469334	11	4	50831
MB	22	36002811	36033998	75	9	48431
LDLRAP1	1	25870071	25895377	50	6	40782
AC007204.	19	20047769	20048639	1	1	41552
POLQ	3	121150278	121264853	205	17	51004
CLIP1	12	122755979	122907179	211	16	50634
GBAS	7	56019486	56067874	121	17	50886
ISX	22	35462129	35483380	102	8	52040
SERP1	3	150259781	150321015	159	18	51730
RDH12	14	68168603	68201169	95	10	51594
POU3F3	2	105471969	105476929	6	2	45288
DNAJC30	7	73095299	73097783	13	3	48947
SLC9A8	20	48429250	48508779	217	18	51969
FAM210A	18	13663346	13726662	187	19	49761
CDX1	5	149546358	149564120	24	5	48127
C1orf105	1	172389828	172437971	124	15	50686
SIGLEC7	19	51645556	51656783	8	2	34750
GPCPD1	20	5525085	5591672	152	17	50181
EMP3	19	48824766	48833810	27	7	46794
OS9	12	58087738	58115340	35	6	51337
KLHDC8B	3	49209044	49213917	7	2	51495
TNN	1	175036994	175117202	269	24	50257
C12orf56	12	64660217	64784972	305	20	50874
TRIM27	6	28870779	28891766	53	10	45974
RSL1D1	16	11929056	11945442	32	5	44952
ALPP	2	233243244	233247599	8	3	51547
MED11	17	4634723	4636905	3	2	43039
B4GALNT3	12	569530	672675	395	62	46329
KAT7	17	47865917	47906458	26	9	46945

AC137932.	16	89334512	89339452	13	5	49365
NR1D2	3	23986751	24022109	76	11	50050
ACRV1	11	125541417	125551018	21	6	53102
CARD11	7	2945775	3083579	481	65	48344
AMT	3	49454211	49460186	8	2	46880
TRAF2	9	139776364	139821059	96	6	48862
C8orf87	8	94146324	94179079	78	15	51439
SLMO2	20	57608200	57617964	14	5	49821
DOK1	2	74776153	74784681	8	2	40357
AC139100.	18	77905807	77936315	86	11	51466
CCM2L	20	30598245	30619984	36	7	45289
CBY1	22	39052641	39069859	61	3	51522
KCNV2	9	2717502	2730037	22	5	46802
HEBP1	12	13127798	13153207	58	8	47300
AC074091.	2	27928653	27938599	14	5	49306
DNA2	10	70173821	70231879	179	14	50949
SPNS2	17	4402133	4442330	108	18	40994
ANO10	3	43396351	43733086	530	28	49370
CHMP2B	3	87276421	87304698	59	11	48603
CHERP	19	16628700	16653341	43	8	48929
EPHA7	6	93949738	94129265	413	48	50596
SOCS5	2	46926091	46990268	215	21	51183
LYSMD3	5	89811428	89825401	25	4	48005
METTL2B	7	128116783	128146656	84	16	48944
MORN3	12	122089024	122110537	46	9	44166
RPL12	9	130209953	130213684	5	1	51475
ZBTB8A	1	33005028	33071540	139	6	50809
STK32B	4	5053169	5502725	1596	87	45551
SPP2	2	234959323	234985778	113	12	48032
HOXC13	12	54332535	54340328	16	3	48045
PMM2	16	8882680	8943188	216	22	51621
ANXA9	1	150954493	150968110	30	8	49071
FER	5	108083523	108532542	1438	45	51847
H3F3B	17	73772515	73781974	16	5	40773
TM6SF1	15	83776159	83813606	43	7	50686
MRGPRG	11	3239174	3240043	1	1	32848
MTPN	7	135611509	135662101	124	17	53147
C11orf89	11	1910375	1912084	4	2	44892
APC2	19	1446300	1473243	39	7	35504
ZFP41	8	144329280	144358573	69	7	48006
TM9SF1	14	24658349	24682679	47	8	50017
TM9SF1	14	24658363	24682679	47	8	50017
RPS3	11	75110530	75133324	31	7	49174
RHOBTB3	5	95049226	95160087	190	31	48507
SLC16A9	10	61410523	61495760	202	30	48563
ZNF382	19	37095719	37119499	33	5	50005
OTX1	2	63277192	63284971	7	4	47467
ZNF28	19	53300662	53360853	216	30	42227
HMSD	18	61616535	61649008	89	10	47844
C7orf34	7	142636440	142637955	5	1	45569
PPA2	4	106290234	106395238	370	20	49678

SULT1A1	16	28616903	28634946	41	3	44439
PNPO	17	46018872	46025654	16	6	50198
GRID1	10	87359312	88126250	2065	122	48601
MNDA	1	158801107	158819296	34	6	52653
IRF2BP2	1	234740015	234745271	9	4	47909
STAMBP	2	74056086	74100786	94	12	47806
ISYNA1	19	18545198	18549111	6	1	44521
SENP6	6	76311225	76427997	248	18	49301
DENND4C	9	19230433	19374139	382	21	50575
MESP1	15	90291892	90294541	6	2	48709
PLEKHM3	2	208693027	208890284	294	27	47445
CHRM2	7	136553416	136705002	390	28	49525
TMEM256-	17	7293046	7307416	30	8	42219
C17orf61-P	17	7293053	7307416	30	8	42219
LARP1	5	154092462	154197167	159	21	47438
NOMO1	16	14927538	14990017	3	2	37500
PSMD3	17	38137050	38154213	50	6	51406
NKX3-2	4	13542454	13546674	3	2	41465
MRPS36	5	68513587	68525956	28	4	49712
CRYM	16	21250195	21314404	103	8	46746
RFC3	13	34392186	34540695	320	22	43819
FBXL7	5	15500305	15939900	852	39	49172
NICN1	3	49460379	49466759	7	4	47681
TNFRSF8	1	12123434	12204264	163	27	44057
EIF2AK1	7	6061881	6098861	133	16	49323
TLR9	3	52255096	52273183	32	8	47736
MECR	1	29519385	29557454	80	11	47277
DNPEP	2	220238268	220264744	23	4	48856
MARS	12	57869228	57911352	51	5	49125
ARHGAP19	10	98757795	99052413	770	67	49426
KRTAP6-1	21	31985750	31986249	1	1	42680
EEF1A2	20	62119366	62130505	42	10	39558
DCTN5	16	23652713	23681195	68	8	43928
ZNF678	1	227751244	227865144	245	16	52964
TSPAN9	12	3186521	3395730	832	76	50276
ENDOG	9	131580753	131584956	9	2	43460
NDUFA10	2	240831867	240964819	520	36	51601
DDX54	12	113594979	113623284	38	3	51738
PTAFR	1	28473677	28520447	44	9	50162
C14orf37	14	58466453	58764857	566	42	49766
GPR75-ASB	2	53759810	54087170	978	62	49791
ZXDC	3	126156444	126194762	116	14	50396
RP1	8	55528627	55543394	20	4	45987
IDI2	10	1064847	1071799	31	8	51040
DIRC1	2	189598882	189654831	131	6	52120
FAM118B	11	126081309	126132881	98	15	52105
C18orf42	18	5145284	5197502	144	22	46744
PITHD1	1	24104895	24114722	6	2	48630
TTC17	11	43380482	43516483	267	24	48703
KLRC2	12	10579453	10594899	7	2	49560
IFNGR1	6	137518621	137540586	21	4	48906

FOXJ1	17	74132414	74137380	8	3	52060
RP3-468K1	6	144128229	144165754	93	11	52230
PCDHA7	5	140213969	140391929	276	15	48774
ZSCAN16	6	28092338	28097860	10	2	51245
PSPH	7	56078744	56119297	80	13	50027
ZAR1	4	48492269	48496406	13	4	50272
OR7A5	19	14903302	14946188	133	22	47329
C5orf48	5	125967414	125971979	13	2	47046
FAM209B	20	55108302	55111576	6	2	40672
ACSBG2	19	6135258	6193112	169	9	48315
ARL14EP	11	30344598	30359774	36	6	53919
MTRNR2L9	6	62284008	62284534	6	2	54841
STK11IP	2	220462582	220481173	3	2	36233
RP11-552F	17	73894726	73926210	42	8	47494
C11orf96	11	43946892	43965888	67	18	49608
PFKM	12	48498922	48540187	94	13	50487
NHP2L1	22	42069934	42086508	25	2	45318
WBSCR27	7	73248920	73256865	16	1	49778
ZMYM5	13	20397622	20437776	109	6	51389
MYBPH	1	203136939	203144941	19	6	46471
TMEM184/	7	1581871	1600457	49	4	48145
PCDHB11	5	140579183	140582618	3	1	52820
FKTN	9	108320411	108403399	112	17	49327
C1QTNF9B	13	24465238	24476794	38	3	46524
PRDX3	10	120927215	120938345	16	3	50066
AC090427.	19	14834747	14835121	1	1	42124
RAD52	12	1021243	1099219	190	29	50162
HMGCLL1	6	55299167	55444012	597	25	51519
TLR2	4	154622652	154626851	7	4	51475
BCAT1	12	24964295	25102393	468	46	50738
PEAR1	1	156863490	156886226	71	9	46364
RPAP3	12	48057070	48099844	67	11	51483
PYY	17	42030106	42081837	105	16	45887
ZNF607	19	38187264	38210691	44	7	50256
F2RL3	19	16999671	17003417	6	2	44695
PAN3	13	28712643	28869475	207	14	49653
TMPRSS11I	4	69054242	69083798	52	3	48506
RAB7A	3	128444965	128533639	196	15	49069
DIRC2	3	122513642	122599986	166	20	51161
ACAD11	3	132276982	132379567	120	12	48105
BOD1L1	4	13570362	13629347	81	11	47603
FRAS1	4	78978724	79465423	1482	45	51350
FYB	5	39105338	39274630	373	24	48915
C12orf4	12	4596894	4647674	42	4	47746
HTR3D	3	183749332	183757157	34	7	50078
PPP2R2B	5	145967936	146464347	967	56	49311
CDNF	10	14861249	14880574	34	9	45372
REL	2	61108656	61158745	65	14	48658
ZMIZ1	10	80828792	81076276	703	93	48823
RASGRP1	15	38780304	38857776	161	19	44534
SLC33A1	3	155538813	155572218	47	6	48593

GLYATL1	11	58672871	58811000	297	11	52607
CLEC6A	12	8608522	8630926	78	2	52374
TBP	6	170863390	170881958	37	6	49872
SPINK9	5	147700766	147719412	22	1	49289
AC006967.	7	156902674	156903764	1	1	43747
HAAO	2	42994229	43019733	113	10	50278
TATDN2	3	10289707	10322902	86	12	48700
RTN4RL2	11	57228022	57245007	13	4	52302
PSMD9	12	122326637	122356203	60	8	49669
PI4K2A	10	99344131	99433667	163	20	49594
TMEM194/	12	57449426	57481846	51	8	48675
RP11-47122	14	61995846	62124682	250	39	46314
ITPR2	12	26490342	26986131	1439	87	49702
STAB2	12	103981051	104160505	575	67	48274
DOK3	5	176928908	176938275	14	4	39070
NIPA1	15	23043277	23100005	119	13	40909
FTO	16	53737875	54155853	1135	98	49032
FN3K	17	80693451	80709073	50	8	49952
NPTX1	17	78440948	78451643	29	7	42446
JPH4	14	24037244	24048009	2	1	34157
AC120194.	8	71485681	71486671	3	1	40266
ABHD10	3	111697857	111712210	60	8	51488
LIPJ	10	90346510	90366733	25	6	50242
C14orf1	14	76116134	76127532	10	4	41838
ADCK3	1	227085237	227175246	187	37	49336
KNDC1	10	134973951	135039916	217	21	47437
AGR3	7	16899029	16921611	70	14	47979
MBD3	19	1576639	1592882	18	3	42148
C14orf105	14	57936019	57960585	33	6	48293
TAC4	17	47915671	47925379	7	4	46968
MRPL24	1	156707095	156711382	5	2	47247
GPSM3	6	32158543	32163300	9	3	47886
ZNF169	9	97021593	97063736	154	18	51158
HP1BP3	1	21069154	21113816	78	12	48004
IER3	6	30710976	30712331	4	2	40103
FAM60A	12	31433518	31479992	33	9	48492
ASPHD1	16	29911696	29931185	16	4	44412
GRID2IP	7	6537093	6591067	136	26	44935
INHBE	12	57846106	57853063	8	2	47021
CHEK1	11	125495036	125546150	110	13	52877
BLM	15	91260558	91358859	263	16	50149
TRPV1	17	3468738	3500392	98	16	48022
OR51M1	11	5410607	5411664	7	1	50070
RPS20	8	56979854	56987069	20	3	51352
RUNDC1	17	41132582	41145707	8	2	47676
TBL2	7	72983262	72993121	20	6	47839
WBSCR22	7	73097355	73119491	56	7	46893
TRIM7	5	180620924	180632293	40	5	48676
LCMT2	15	43619974	43622803	4	2	46497
DTNB	2	25600067	25896503	355	35	49327
NCAPD3	11	134020014	134095348	125	15	48580

MYOZ1	10	75391412	75401515	13	2	46334
MC5R	18	13824154	13826861	17	3	53492
RNF39	6	30038043	30043664	44	7	48625
ATP2C2	16	84402133	84497793	619	62	50184
LRRC61	7	150019728	150035239	33	2	53951
DNM2	19	10828755	10944164	254	20	46403
C19orf24	19	1275026	1279248	4	1	39792
PSMB9	6	32811913	32827362	118	15	48090
ARHGEF19	1	16524349	16539104	43	4	51859
NCOR2	12	124808961	125052135	635	92	46080
ZNF707	8	144766622	144796068	61	12	37760
ATP6V1B2	8	20054878	20084330	48	10	48497
HIATL1	9	97136833	97223324	170	16	52167
LUM	12	91496406	91505608	33	5	39431
B3GALNT2	1	235613238	235667781	109	10	46889
NDUFA11	19	5891287	5904017	37	7	49147
KDM4E	11	94758422	94760760	2	1	50095
BST2	19	17513748	17516457	5	2	41610
ZRANB1	10	126630692	126676758	71	6	49535
LMAN2	5	176758563	176778853	23	4	45356
IL1F10	2	113825547	113833427	37	7	48021
CPED1	7	120628731	120937498	601	27	51221
KANSL2	12	49047184	49076021	57	8	46107
MYO15B	17	73584139	73622929	161	21	45372
CCDC147	10	106113522	106214848	128	16	49388
COL9A1	6	70924764	71012786	345	27	48490
ALS2	2	202565277	202645912	236	20	49368
DNAJC13	3	132136370	132257876	223	22	48625
ACOT2	14	74034324	74042357	29	9	45271
PCDHA8	5	140220907	140391929	269	14	48887
TIGD7	16	3348832	3355729	8	3	45004
KIAA0232	4	6783102	6885897	99	11	46952
CA13	8	86132816	86196302	74	6	50118
PIGK	1	77554675	77685115	305	18	51435
FAM81B	5	94727048	94786158	165	21	49660
GATSL1	7	74379083	74438803	1	1	30376
hsa-mir-151	19	50003781	50004614	2	1	49399
BRMS1L	14	36295524	36401531	133	15	46833
MLN	6	33762450	33771788	33	6	53971
PTRHD1	2	25012603	25016251	9	3	50210
ELOVL2	6	10980992	11044547	88	9	48006
ZNF729	19	22469210	22499978	34	7	49398
KCTD7	7	66093868	66276446	506	15	53151
FREM3	4	144498455	144621828	179	14	48139
DOCK4	7	111366166	111846466	938	97	48415
TMEM26	10	63166401	63213208	115	17	47007
VPS13B	8	100025494	100889808	1236	17	50813
FDXACB1	11	111744780	111751967	7	2	52021
GPR148	2	131486643	131487909	1	1	30498
FAM227B	15	49619159	49913128	760	23	49149
RAP1A	1	112084840	112259313	444	38	51958

ADAMTS7	15	79051545	79103773	128	10	46572
PGAM2	7	44102326	44105186	7	1	54701
ARPC5	1	183592401	183604892	66	3	45233
RP11-295D	9	122257653	122286403	90	10	46795
NEK2	1	211836114	211848960	28	7	52593
SMIM13	6	11094266	11138964	156	14	52601
RHEB	7	151163098	151217206	78	9	47984
CCDC69	5	150560613	150603706	152	27	49481
ERC1	12	1099675	1605099	1381	35	49547
SLC36A4	11	92877341	92931130	112	14	52378
DBR1	3	137879854	137893791	17	1	50763
LPHN3	4	62066976	62944053	1658	108	48115
HELQ	4	84328496	84377009	69	9	49204
CYP3A7	7	99302660	99332819	62	4	43352
SFTA2	6	30899130	30899952	9	3	47044
GLB1L2	11	134201768	134248235	130	34	46046
STON2	14	81727000	81902809	433	35	48688
IGSF5	21	41117334	41174023	307	15	51366
HAPLN1	5	82933624	83017432	186	30	49255
MRPS35	12	27863706	27909228	80	11	50259
FAM83C	20	33873534	33880204	5	1	47900
CYP17A1	10	104590288	104597290	19	4	50950
IQGAP3	1	156495197	156542396	73	7	49253
TMX3	18	66340925	66382535	40	2	46768
SWI5	9	131037658	131051269	16	2	46196
AZIN1	8	103838585	103906092	165	15	53188
CUZD1	10	124591665	124639146	37	14	45175
DLST	14	75348594	75370448	48	7	49144
EIF4H	7	73588575	73611431	12	4	36676
MRGPRX3	11	18142502	18160027	32	6	51185
TIGD2	4	90033968	90036050	4	1	53863
ZNF330	4	142142041	142155851	15	2	50443
RNF135	17	29295803	29326929	7	4	39490
DDTL	22	24309089	24314721	10	3	42475
NXPH4	12	57610578	57620232	15	4	44512
SPATC1	8	145086582	145101933	12	3	38953
GSDMC	8	130760442	130799134	100	16	50572
EMC9	14	24608174	24610797	3	1	48139
BCAN	1	156611182	156629324	27	7	40964
PZP	12	9301436	9360966	137	18	51439
TMEM42	3	44903361	44907162	2	1	55273
CTTNBP2N1	1	112938803	113006078	146	6	48204
VPS53	17	411908	624957	582	26	50067
AL031663.1	20	44095910	44107452	35	6	48208
ALS2CR12	2	202152994	202222121	145	16	49857
TNFRSF18	1	1138888	1142071	4	1	34337
MYO5C	15	52484519	52587995	178	26	43229
MUSK	9	113431051	113563859	324	37	49330
PUS10	2	61167357	61245394	109	19	49315
FOXF1	16	86544133	86548076	12	4	46109
MFN1	3	179065480	179112719	69	10	53035

PERP	6	138409642	138428648	80	15	49188
LDLRAD1	1	54474412	54483856	22	4	49006
CCDC74B	2	130896860	130902707	9	2	42361
MDS2	1	23907985	23967058	88	19	45632
FAM150A	8	53446597	53478067	42	6	51768
TMEM50B	21	34804792	34852318	145	10	48293
SUGP2	19	19101697	19144832	67	6	49505
DENND1A	9	126141933	126692431	1163	46	49858
IQCD	12	113633246	113658899	41	3	51928
KANK1	9	470291	746105	1231	43	50307
PARP15	3	122296449	122357894	214	22	50273
PTP4A2	1	32372022	32410457	40	7	48159
APOBEC3B	22	39378352	39388809	9	3	38604
ACAP2	3	194995465	195163807	461	14	42759
UFM1	13	38923986	38937140	10	1	33959
LAMTOR1	11	71796941	71814433	28	3	43595
SEC31A	4	83739814	83822319	138	6	48830
GSTZ1	14	77787227	77797940	37	9	47131
ZNF398	7	148823508	148880116	154	11	49349
USP32	17	58256455	58499831	127	5	43238
DIS3L	15	66585555	66626236	104	18	50971
CCL22	16	57392684	57400102	28	8	45535
HOXA3	7	27145803	27192200	97	12	46893
ZNF341	20	32319463	32380075	81	12	47850
GPR123	10	134884433	134945179	187	28	38685
OR5AU1	14	21623026	21624222	7	3	44458
MYO6	6	76458909	76629254	252	15	48838
ALKBH8	11	107373452	107436472	177	18	48589
ETV4	17	41605212	41656988	85	7	52167
SLC5A5	19	17982782	18005983	42	4	44708
GAPDH	12	6643093	6647537	14	2	47597
RP11-463J1	14	52382863	52385289	6	2	40871
SFN	1	27189633	27190947	1	1	46740
RRAS	19	50138549	50143458	7	2	43870
ORC6	16	46723555	46732306	1	1	45093
CEP250	20	34042985	34099804	84	5	47870
KIAA1715	2	176788620	176867567	174	23	51009
SLC15A1	13	99336055	99404908	201	40	43970
CKAP4	12	106631655	106698057	158	33	48729
CGN	1	151482986	151511168	30	7	45180
GTPBP1	22	39101728	39134304	62	8	45341
SHISA4	1	201857808	201861434	7	3	51102
IKZF5	10	124750322	124768333	43	9	48605
RINL	19	39358470	39368919	17	4	46227
DDI1	11	103907308	103909922	5	2	46280
ANKRD45	1	173578700	173639001	47	7	48984
LPCAT1	5	1456595	1524092	233	38	49106
SLC35E3	12	69139886	69187508	83	18	47251
KLHL36	16	84682131	84701292	79	13	48776
SLC6A7	5	149569520	149602351	124	17	47683
NOM1	7	156742417	156765876	124	11	53132

FBP2	9	97321002	97356075	157	16	50460
PLSCR1	3	146232967	146262651	135	14	51792
BANP	16	87982850	88110924	495	19	47238
KIAA0226L	13	46916139	47012325	145	7	53006
EVX2	2	176942200	176948641	8	3	53888
C12orf65	12	123717463	123742506	69	6	45790
NOX5	15	69222864	69355083	104	7	43992
TMEM180	10	104221149	104236802	52	6	50448
SRBD1	2	45615819	45839304	584	24	48859
ZNF101	19	19779605	19794318	32	8	48942
GLT8D1	3	52728505	52740048	14	3	45642
SLC41A3	3	125725198	125820404	306	14	52766
WFDC11	20	44277202	44298909	44	4	52341
RP11-41O4	18	68002675	68019695	44	8	52761
TIAM2	6	155153831	155578857	1235	136	48037
GALNT6	12	51745031	51786651	74	19	47598
DENND5B	12	31535157	31744031	666	24	47784
STARD9	15	42867857	43013179	137	10	47532
AL591025.1	6	159047471	159049322	4	2	52472
EPB41L4A.1	5	111755280	111756310	3	2	45942
DNMBP	10	101635334	101769676	362	19	52132
LTB4R2	14	24778161	24781252	3	1	46844
CTB-102L5.1	19	38779791	38795550	42	8	51150
MPLKIP	7	40165622	40174258	8	3	49232
PARD6B	20	49348081	49373332	57	10	50401
PRDM10	11	129769601	129872730	246	29	43042
TBC1D17	19	50380682	50392005	13	3	47094
NSUN5	7	72716514	72722864	2	1	40940
C14orf166f	14	77292715	77336645	130	27	49192
CLU	8	27454434	27472548	36	6	47667
RP11-793H	12	53900472	54019763	172	14	51781
SPATA31D.1	9	84603687	84610171	7	2	40981
GUCD1	22	24936406	24951903	26	3	47814
ZNF597	16	3486104	3493542	33	4	53131
ZNF776	19	58258164	58269527	13	4	46324
TRAF3IP2	6	111877657	111927481	124	16	49870
SLC35B3	6	8413301	8435794	62	4	49353
KIAA1549	7	138516126	138666064	416	34	49598
DKFZP434C	14	96741383	96743060	1	1	46878
DDX58	9	32455300	32526322	161	16	51065
AFF1	4	87856154	88062206	432	30	49220
SHC3	9	91628060	91793682	426	33	47159
KLF11	2	10182976	10194963	28	7	51522
ISOC1	5	128430444	128449721	58	10	45302
ZG16B	16	2880170	2888967	13	2	50961
AKAP11	13	42846289	42897396	101	10	52240
SLC25A11	17	4840425	4843546	3	1	45134
DEFA4	8	6793344	6795860	14	6	47193
RAD51L3-R	17	33338368	33448512	91	15	47697
GPHN	14	66974125	67648520	1802	16	40982
IMPACT	18	22006580	22033499	65	9	49876

ROPN1L	5	10441636	10472141	57	4	37665
SAMHD1	20	35518632	35580246	99	12	50393
PEX11A	15	90220995	90234014	29	6	44142
SPINK2	4	57676026	57687908	44	12	48538
DNAH7	2	196602427	196933536	570	21	49652
RAPSN	11	47459308	47470730	32	5	47919
CFD	19	859453	863453	3	1	37330
ZNF112	19	44830708	44871377	122	13	50653
GNB5	15	52413117	52483566	181	16	49242
CWF19L1	10	101992055	102027437	90	8	47104
CUTC	10	101462315	101515891	65	11	51387
BPIFB4	20	31667450	31699557	120	13	49588
SH2D7	15	78370150	78397251	64	15	50624
CCL21	9	34709002	34710121	1	1	55273
SOAT1	1	179262925	179327815	244	20	51178
RABIF	1	202848085	202858263	23	5	48707
HSD11B1	1	209859510	209908295	79	8	48700
LDLR	19	11200038	11244492	134	18	47832
TMEM248	7	66386212	66423538	85	10	51011
JUNB	19	12902310	12904124	1	1	32364
RARRES1	3	158414681	158450485	105	13	52471
TOR3A	1	179050512	179067158	46	12	50935
PPP1R3E	14	23764852	23772057	6	2	39084
MEGT1	6	31674681	31685695	26	9	43938
TMEM130	7	98444111	98468394	41	6	48308
FNBP1L	1	93913688	94020218	85	12	47710
SRSF6	20	42086568	42092245	10	4	49954
KIF14	1	200520628	200589862	192	18	50354
SLC35A4	5	139944041	139948688	6	3	46747
AC010327.	19	55738587	55741647	9	3	47163
NUP37	12	102467967	102513902	74	11	49835
BTN1A1	6	26501449	26510650	18	4	51311
DLX6	7	96634860	96640351	5	2	51165
NBR1	17	41322498	41363708	63	2	54006
KLK4	19	51409608	51413994	17	5	45746
WASF2	1	27730730	27816669	90	3	45774
TRIM2	4	154073494	154260472	420	46	51153
MGAT5B	17	74864538	74946475	418	44	49236
GRB7	17	37894180	37903544	9	2	45897
SECISBP2L	15	49280673	49338760	99	11	49468
USP24	1	55532032	55680786	214	15	49634
KIAA2026	9	5881596	6007901	236	18	48356
MASP1	3	186935942	187009810	211	34	47892
FBXO33	14	39866873	39901704	84	10	50929
TMEM258	11	61535973	61560274	32	7	46675
CRLF3	17	29096406	29151794	158	3	53349
ERP44	9	102741461	102861322	168	14	46948
OR10G8	11	123900297	123901341	1	1	46671
DOCK3	3	50712672	51421629	965	9	48957
C17orf70	17	79506911	79520987	34	5	42285
ATF7	12	53901640	54020199	171	14	51811

CCT6A	7	56119323	56131682	28	7	47280
FAM110D	1	26485511	26489119	7	3	43953
HOXA7	7	27193335	27197555	6	2	44590
DBX2	12	45408455	45444882	73	7	49782
SIKE1	1	115312100	115323306	3	1	54129
GANAB	11	62392298	62414104	14	4	45331
LIN28A	1	26737269	26756213	30	9	50343
NARF	17	80416056	80448413	62	8	47346
RABGAP1L	1	174128548	174964445	1470	19	47578
F2RL1	5	76114758	76131140	28	5	50157
TAS2R40	7	142919130	142920162	1	1	46740
SLC18A1	8	20002366	20040717	150	17	49132
CCSER2	10	86088342	86278273	499	21	52485
RINT1	7	105172532	105208124	68	8	50752
CKMT1B	15	43885252	43897099	16	2	44971
ARMC2	6	109169619	109295186	251	24	47904
MTRNR2L1	4	117220016	117221520	3	1	49649
CTNS	17	3539762	3564836	91	10	49880
DYTN	2	207516345	207583120	254	24	51275
SERPINI1	3	167453031	167543356	252	16	52270
HTN3	4	70894130	70902255	22	6	47316
OR5M10	11	56344212	56345263	2	1	49378
ZNF395	8	28203102	28260218	44	5	47401
CCNT2	2	135675805	135716912	74	6	50504
C4orf50	4	5958845	5991545	178	23	50134
SLC22A16	6	110745890	110797844	188	27	50440
C9orf38	9	6467618	6470375	11	3	47498
WTAP	6	160146617	160177351	68	10	48967
TLK2	17	60536019	60692842	133	10	47263
CCDC82	11	96085933	96123087	79	12	51382
IFT43	14	76368479	76550928	320	21	50966
PCMTD1	8	52730140	52811735	264	10	48370
WDYHV1	8	124428965	124479470	260	7	53781
OR5P2	11	7817452	7818520	8	1	53056
ATP5G1	17	46970127	46973233	7	2	49228
ATP2C1	3	130569439	130735556	217	20	47393
CTD-2528L	19	38180766	38210089	52	7	50322
DLG4	17	7093209	7123021	36	7	45824
FCER2	19	7753644	7767032	87	7	47366
EXOSC7	3	45016733	45077558	120	11	52299
STAM	10	17686124	17757913	297	15	51270
OGFR	20	61436187	61445352	34	6	43003
C9orf66	9	213108	215893	16	6	48523
FADS1	11	61567099	61596790	32	4	46543
SLC2A11	22	24198890	24228496	86	14	49290
POGLUT1	3	119187785	119213555	68	13	49100
AQPEP	5	115298151	115363316	297	29	50641
SMARCAL1	2	217277137	217347776	167	16	50806
TEX19	17	80317123	80321652	7	2	47640
MLEC	12	121124672	121139667	37	9	49671
TCP1	6	160199530	160210781	26	5	48426

RP11-422N	8	110656344	110660313	6	3	44977
CDC25A	3	48198636	48229892	22	4	48618
TMEM151/	11	66059341	66064135	7	4	42460
APOL4	22	36585172	36600886	86	10	49557
PDE6C	10	95372345	95425767	160	22	49414
HPS6	10	103825147	103827792	2	1	48174
CAPN14	2	31395924	31456724	339	23	50206
PHF21B	22	45277042	45405880	397	39	49229
COPS4	4	83955600	83996971	34	5	47439
CCDC104	2	55746740	55773015	68	14	51239
PCDHA10	5	140235595	140391929	254	12	48973
ASAP2	2	9346894	9545812	334	17	49612
SULT1E1	4	70676498	70725870	134	18	49403
ITGAD	16	31404633	31437826	39	6	49442
MATN4	20	43922085	43937169	50	8	51959
GPATCH11	2	37311594	37326387	32	5	51680
HIC1	17	1957448	1962981	9	4	50151
LACRT	12	55024595	55028679	1	1	50758
CCL23	17	34340096	34345005	15	3	45863
FBXO15	18	71740588	71815100	204	10	48891
RPN1	3	128338817	128399918	160	15	51512
SLC2A14	12	7965108	8043744	230	31	48567
TOM1	22	35695268	35743985	116	12	47354
SENP5	3	196594727	196661585	151	13	48419
AARSD1	17	41102543	41116515	10	2	47951
AP1M2	19	10683347	10697991	61	7	49540
TRMT6	20	5917881	5931182	52	9	46199
MAP4K3	2	39476407	39664453	387	18	48022
MFAP3	5	153418466	153600038	441	32	50341
PARP14	3	122399465	122449687	166	20	51337
AC068987.	12	52203789	52206636	3	2	52250
BASP1	5	17065707	17276943	584	55	47131
EFCAB5	17	28256218	28435470	188	12	44930
PPP1R3A	7	113516832	113715975	312	10	45295
ILDR1	3	121706170	121741051	62	12	50093
C9orf62	9	138235095	138238408	12	3	44732
SEMG2	20	43849941	43853099	10	2	51992
MKS1	17	56282803	56296966	17	5	48630
CECR1	22	17660194	17702879	171	34	43822
DUSP6	12	89741009	89747048	25	4	50431
GDAP1	8	75233365	75401107	321	24	51424
TEN1	17	73975301	73996667	53	10	45496
ZFP2	5	178322895	178360213	141	13	52811
RPS6KB1	17	57970447	58027925	74	9	51328
MED6	14	71047974	71067384	64	8	46264
CYBA	16	88709691	88717560	22	7	45182
WDR5	9	137000487	137025093	100	9	36327
SLC47A2	17	19581601	19622292	68	11	48044
EPYC	12	91357456	91398803	114	11	49161
MRGPRE	11	3248928	3253616	20	6	45259
CNOT8	5	154237113	154256353	24	4	44460

RTN3	11	63448918	63527363	64	5	48636
TRAF3IP3	1	209929377	209955668	59	6	48713
AGBL5	2	27265232	27293490	31	5	44461
PDZD9	16	21995186	22012433	8	2	48596
MED9	17	17380300	17396540	27	4	42431
MGAT2	14	50087489	50090198	2	1	40161
ADCY8	8	131792547	132054672	838	51	49386
ABHD15	17	27887565	27894155	7	4	42344
AP001055.	21	45587818	45593580	7	2	47104
GIN1	5	102421704	102455855	93	5	49009
C9orf92	9	16203933	16276311	288	38	49177
NNT	5	43602794	43707507	226	9	45195
RGS20	8	54764368	54871863	75	10	45897
ZNF880	19	52873170	52889048	64	7	50552
TMEM105	17	79285074	79304474	66	7	38852
ACSM3	16	20621565	20808903	400	18	49733
CCDC3	10	12938627	13141652	852	79	50512
HAL	12	96366440	96390143	105	15	50784
ADAMTS2	5	178537852	178772431	752	102	46069
DPY19L4	8	95731931	95806064	218	19	50979
NKX2-4	20	21376005	21378666	1	1	49399
TSHZ3	19	31765851	31840453	156	29	47096
TMEM61	1	55446465	55457966	32	2	51027
DAPK1	9	90112143	90323548	689	60	50118
TRPV6	7	142568956	142583507	50	3	44993
LMO1	11	8245851	8290263	181	35	44656
RP13-512J5	2	3579574	3595547	42	9	49547
TMED9	5	177019159	177023125	8	3	45951
DEAF1	11	644233	706715	204	18	47942
GDF9	5	132196873	132202576	14	4	49947
OR9K2	12	55523465	55524586	4	1	48583
MAPK8IP1	11	45907202	45928016	29	10	45459
REV3L	6	111620234	111804918	349	20	48149
MUC5B	11	1244296	1283406	162	12	48955
AGAP2	12	58118980	58135940	16	4	49008
C11orf53	11	111126707	111157126	59	7	50868
CAMSAP2	1	200708686	200829832	217	20	50002
NSUN2	5	6599352	6633404	137	14	49352
IFITM5	11	298200	299526	2	1	33617
XKR9	8	71581600	71702606	307	11	50593
TSPEAR	21	45917775	46131495	711	43	45725
OR5B2	11	58189738	58190786	3	1	54051
PHLDA1	12	76419227	76427712	11	5	42044
PTP4A3	8	142402093	142441620	93	12	46542
CUL7	6	43005355	43021683	24	6	45647
RARS	5	167913450	167946304	113	6	52633
PECR	2	216861052	216947678	224	29	49210
RIT1	1	155867599	155881195	19	3	43208
AUNIP	1	26158414	26185903	58	2	51464
ERLIN1	10	101909851	101948091	66	7	40756
CRCT1	1	152486978	152488486	5	2	45485

SBNO2	19	1107636	1174282	182	24	39507
SLC17A4	6	25754927	25781419	102	14	46942
AHSG	3	186330712	186339107	18	4	48713
CCNA1	13	37005967	37017019	16	3	51421
SLCO1B3	12	20963636	21243040	1056	24	47746
CRB2	9	126118449	126142603	65	11	51005
B3GNT4	12	122688090	122693499	6	2	49187
ARPC1A	7	98923521	98985787	91	10	44910
STIM2	4	26859300	27027003	243	24	49524
SLC25A34	1	16062900	16067891	5	2	40711
SPRR4	1	152943142	152945050	2	1	49671
OCLM	1	186369704	186370587	1	1	47418
C12orf10	12	53693470	53700961	5	2	40948
UCMA	10	13263767	13276334	58	11	50319
SGTB	5	64961755	65018862	82	12	51614
SETD9	5	56205087	56221359	42	5	48995
LZTS2	10	102756375	102767593	28	5	49001
MCM3	6	52128807	52149679	58	11	48564
GDPD3	16	30116131	30125177	12	4	47800
C6orf136	6	30614816	30620987	10	6	42924
TTC21A	3	39149152	39180394	93	11	47433
HN1L	16	1728257	1752281	28	4	47584
ASB13	10	5680830	5708558	125	29	47703
BTG3	21	18965971	18985265	16	3	50387
ZNF570	19	37958487	37976260	20	4	48404
UNC45A	15	91473410	91497323	73	9	48558
SCAF1	19	50145382	50161899	15	4	42653
SLC25A26	3	66119285	66438540	586	35	47702
AC008498.	5	60411538	60411762	1	1	52654
SHARPIN	8	145153536	145163027	13	2	41692
ZNF660	3	44619715	44641186	26	4	51618
CDCA7	2	174219548	174233725	36	7	48983
SH3BP4	2	235860617	235964358	243	34	45301
MNAT1	14	61201460	61436671	142	23	42068
TEX30	13	103418340	103426161	13	4	46890
DOCK10	2	225629807	225907162	644	44	50253
TNFSF11	13	43136872	43182149	102	11	49300
SOX11	2	5832799	5841516	11	5	44726
MAPKAPK5	12	112279782	112334343	95	3	51430
SMAD1	4	146402346	146479231	79	9	44265
FDXR	17	72858619	72869156	28	2	50591
ZNF780A	19	40575059	40596845	53	4	46440
HIST3H3	1	228612546	228613026	2	1	49469
HDLBP	2	242166679	242256476	182	17	52165
ABCC6	16	16242785	16317379	174	24	47482
PIH1D1	19	49949555	49956754	17	2	49277
DEFB113	6	49936390	49937338	1	1	47999
MYC	8	128747680	128753674	10	4	39587
CFTR	7	117105838	117356025	368	20	48997
ZFAND4	10	46111043	46168228	148	7	51326
ITFG2	12	2921788	2968957	92	6	48848

PCDHA5	5	140201222	140391929	289	14	48788
TMEM229E	14	67913801	68000456	283	40	49098
SEMA5B	3	122628041	122747452	349	42	48197
PRIM2	6	57179603	57513375	182	23	46929
ELOVL4	6	80624529	80657297	107	10	47476
CD163	12	7623409	7656489	58	13	45037
KRT4	12	53200333	53208335	18	4	47527
RBM12B	8	94741584	94753245	18	3	47670
TNFRSF1B	1	12227060	12269285	105	12	49783
SLC13A5	17	6588032	6616886	104	19	45823
PIGF	2	46808076	46844258	77	11	49994
IFNGR2	21	34775202	34851655	191	14	48373
MGEA5	10	103544200	103578696	41	8	51878
BRD2	6	32936437	32949282	74	16	46059
XRCC2	7	152341864	152373250	83	12	48815
AC012360.	2	105867759	105869601	4	2	52952
KIAA0408	6	127761488	127780536	27	4	48408
FAM186A	12	50720013	50790405	82	5	49261
EPB42	15	43398423	43513481	75	12	43780
AQP7	9	33384765	33402643	25	6	47531
AC105020.	15	75970672	75973093	5	2	44856
CAPZB	1	19665267	19812066	498	25	50974
MYCBPAP	17	48585745	48608862	63	9	49706
ARFRP1	20	62329996	62339377	14	2	45672
PCDHB5	5	140514800	140517703	5	3	46664
KLHL30	2	239047363	239061588	46	10	40979
TULP3	12	2986389	3050306	175	5	54548
KLC3	19	45836692	45854778	48	9	47208
TRIM65	17	73876416	73893084	40	5	50954
ELMO2	20	44994688	45061704	63	6	46769
NGDN	14	23938897	23979071	80	8	45420
BET1L	11	167784	207428	43	9	50895
KCNJ2	17	68164814	68176189	9	4	49479
MOV10	1	113215763	113243368	48	8	48230
ZNF324	19	58978423	58984945	6	3	46363
CYP4Z1	1	47533160	47583991	96	4	49307
C16orf13	16	684429	686358	1	1	34337
FYN	6	111981535	112194655	500	33	48366
CD55	1	207494853	207534311	73	7	50385
UBAP2L	1	154192655	154243986	61	8	48933
RHCG	15	89998680	90039844	48	6	48870
BTBD18	11	57510986	57519253	5	3	43831
OR1L6	9	125512019	125513062	2	1	31695
MAD2L1	4	120976763	120988229	30	6	50208
FDFT1	8	11653082	11696818	229	24	48692
GPR144	9	127213423	127239379	52	6	46607
GDF3	12	7842378	7848372	22	7	48467
TNPO2	19	12810008	12834825	10	4	40831
SRRM3	7	75831216	75916605	123	12	47948
CREB1	2	208394461	208468155	87	9	48478
ZNF37A	10	38383264	38414472	88	6	52774

WLS	1	68564142	68698803	484	61	49220
KLRG1	12	9102640	9163356	133	11	49076
C20orf85	20	56725960	56736206	9	2	51559
RAB36	22	23487513	23506537	56	4	51483
TOMM34	20	43570771	43589127	19	4	48247
EIF2A	3	150264465	150302029	89	13	52057
NPR3	5	32689176	32791819	264	25	51257
CEBPB	20	48807376	48809212	1	1	46878
CDC37L1	9	4679559	4708398	69	6	49928
CACNA2D2	3	50400233	50541675	154	11	46061
NAT2	8	18248755	18258728	43	7	49174
AC132216.	11	33902189	33903338	5	2	51196
UBA52	19	18682540	18688360	12	2	49299
CEP290	12	88442793	88535993	118	10	45098
ZNF786	7	148766735	148787874	31	4	50166
PPP1R21	2	48667737	48742525	191	19	51427
XDH	2	31557187	31637581	250	38	48727
TWF2	3	52262626	52273276	25	7	48158
PCDHB14	5	140602931	140605858	1	1	46830
Z98049.1	6	166945369	166947709	2	1	48139
PPP1R26	9	138370925	138380739	16	1	41238
MRPL55	1	228294380	228297013	1	1	52310
WSCD2	12	108523248	108644314	298	23	50152
ENPP1	6	132129156	132216295	209	27	47015
SH3BP1	22	38030661	38062939	99	11	48544
TUFM	16	28853732	28857729	6	1	49103
C7orf55-LU	7	139025105	139108198	210	4	49310
MTTP	4	100484918	100545156	241	24	50306
DSCC1	8	120846216	120868250	75	12	47742
KERA	12	91444268	91451760	32	7	47838
ERP27	12	15066969	15092016	77	3	51317
YIPF2	19	11033444	11039357	4	2	41752
ETV6	12	11802788	12048336	479	73	48927
ZNF714	19	21264965	21308073	135	9	49576
CLMN	14	95648277	95786243	466	36	49386
ZNF587	19	58361225	58376480	41	7	50518
PNMAL1	19	46969748	46974820	27	4	50768
TMEM205	19	11453452	11457194	1	1	37197
IL23A	12	56732663	56734193	1	1	47999
TATDN3	1	212965170	212989968	102	8	50525
IFNG	12	68548548	68553527	4	2	45941
TSPYL4	6	116571151	116575261	12	4	44598
NPAP1	15	24920541	24928593	22	6	50447
IQCF6	3	51812580	51813009	1	1	40544
HIST1H3B	6	26031817	26032288	1	1	54497
SOWAHA	5	132149033	132152488	5	2	52299
C7orf63	7	89874488	89940377	148	15	47985
SKIDA1	10	21802407	21814611	7	2	41310
TOR1AIP2	1	179809102	179846938	61	9	50746
CD300LG	17	41924516	41940997	24	3	47799
SPERT	13	46276446	46288694	45	10	45935

DGCR6L	22	20301799	20307603	9	2	34797
LACC1	13	44453420	44468068	47	9	46965
AADAT	4	170981373	171012850	75	13	48684
MRPL21	11	68658744	68671303	25	5	50572
TLDC2	20	35504524	35522638	33	8	49358
HMG20A	15	77712754	77777949	108	10	52425
SYNPO2L	10	75404639	75423561	23	2	49404
LEPROTL1	8	29952914	30034724	138	12	47586
RP4-559A3	1	226074396	226111978	96	16	49992
PRKCB	16	23847322	24231932	1055	85	50485
PANX2	22	50609160	50618723	24	9	44143
PRKG2	4	82009837	82136218	250	18	49122
PHRF1	11	576486	612222	92	12	48340
APLF	2	68694693	68858004	347	9	48322
CD63	12	56119107	56123491	4	2	49142
ASUN	12	27058114	27091259	69	13	49471
VCAN	5	82767284	82878122	215	36	50904
WDR74	11	62599814	62609281	28	3	49715
SNX4	3	125165495	125239041	136	12	52571
BLOC1S1	12	56109820	56113871	4	2	40787
AP001468.	21	47612391	47613673	1	1	51460
GIMAP7	7	150211918	150218161	26	7	49038
THEG	19	361750	376013	41	10	41650
IP6K1	3	49761727	49823975	77	8	48252
RAB39A	11	107799229	107834208	89	15	50313
OR5D13	11	55540914	55541858	1	1	47999
PCDHA6	5	140207563	140391929	284	14	48853
NSUN7	4	40751914	40812002	122	14	51994
C2orf43	2	20883788	21022882	263	24	50602
RABL3	3	120405528	120461840	85	15	48220
WRAP53	17	7589389	7606820	28	4	44364
PTPRJ	11	48002113	48189670	302	18	49459
GDNF	5	37812779	37839788	76	15	48457
IGF2	11	2150342	2170833	48	11	43376
RP11-831H	11	62417166	62432650	19	4	47029
PLEKHG3	14	65170820	65213610	84	10	51665
SMTNL1	11	57308979	57318108	17	3	52797
BARHL1	9	135457572	135465653	12	5	47337
MYLIP	6	16129356	16148479	30	7	50733
LRFN5	14	42076773	42373752	847	30	46108
SCP2D1	20	18794370	18795033	2	1	43250
ATP5SL	19	41937223	41946622	16	2	45619
GBP2	1	89571815	89616139	108	9	48687
CREB3L4	1	153940010	153946839	10	3	47893
ABCB4	7	87031013	87109751	163	13	48405
WDR20	14	102605840	102691184	154	16	46031
BACE1	11	117156402	117186975	54	13	48501
ACADSB	10	124768495	124817827	160	23	49057
CDC16	13	115000362	115038198	78	8	47869
AGAP6	10	51748078	51770259	2	1	32979
KRT76	12	53161939	53171129	26	5	46175

GBP4	1	89646831	89664615	25	4	46740
MASP2	1	11086580	11107290	42	4	42644
WDR89	14	64063757	64108579	90	6	43551
XPO5	6	43490072	43543812	72	8	44843
CEBPA	19	33790840	33793470	5	1	49511
ADAM17	2	9628615	9695921	113	9	50529
TMEM110	3	52870235	52931612	109	9	51427
AAK1	2	69688532	69901481	222	19	49052
METTL1	12	58162254	58166576	5	2	47360
ASCL3	11	8959119	8964580	24	3	47702
ANGPTL2	9	129849611	129885162	45	8	48288
RBM14	11	66384053	66394818	6	3	49515
TMEM8A	16	420773	437113	58	7	45322
SCNN1G	16	23194036	23228204	118	12	52861
NFKBIA	14	35870717	35873955	10	4	48064
UGT2B7	4	69917081	69978705	305	9	51817
ANKRD30A	10	37414785	37673039	413	24	51594
ASAH2B	10	52499078	52576255	118	10	48667
TUBGCP3	13	113139325	113242481	237	14	50037
VIPAS39	14	77893018	77924295	56	9	50350
PPAT	4	57259528	57301781	90	12	50581
HEMK1	3	50606583	50622366	13	2	50833
C14orf144	14	104710541	104712473	2	1	39375
RP11-1055	17	79373540	79433357	88	17	36650
TMEM168	7	112402437	112430647	34	6	46939
DHDDS	1	26758773	26797785	47	9	51549
FLG	1	152274651	152297679	63	5	40945
CNNM4	2	97426639	97477628	57	5	49124
C19orf54	19	41246761	41257458	31	7	48498
CNOT3	19	54641444	54659419	37	7	40503
TMCO1	1	165696032	165796992	122	20	50327
ZCCHC2	18	60190240	60254942	142	17	50074
FAM208A	3	56654161	56717265	227	21	49735
CALR	19	13049392	13055303	4	1	45496
ESCO2	8	27629466	27670157	129	7	51227
S100A16	1	153579362	153585621	11	3	41806
TELO2	16	1543345	1560458	47	8	44099
SYT10	12	33527173	33592754	188	17	49398
C1orf137	1	117236734	117249225	9	4	43515
TMCC3	12	94960900	95044338	266	30	49314
DNASE2B	1	84864215	84880701	59	9	50639
SLC2A4	17	7184986	7191576	8	3	44430
LMF1	16	903634	1031318	493	24	45730
AC005779	19	45683080	45705702	68	15	43719
RAB10	2	26256976	26360323	159	6	49843
RP11-219B	8	86134675	86157946	24	4	51662
AC136297	11	1295809	1296033	1	1	49230
HS3ST6	16	1961464	1968441	26	2	53266
VPRBP	3	51433298	51534010	55	14	43847
RRN3	16	15153879	15188174	47	10	44292
SIDT2	11	117049449	117068160	49	8	47840

LRFN4	11	66624118	66627946	2	1	44758
EGFR	7	55086714	55324313	656	79	49255
GPR125	4	22346694	22517677	512	39	49577
DNASE1	16	3661729	3730144	145	12	48917
MGST3	1	165600098	165631033	124	18	47071
LRRC15	3	194075976	194090472	93	6	50574
KIF26A	14	104605060	104647231	142	20	38008
SYNC	1	33145507	33169197	43	3	42394
FADS6	17	72873428	72889708	33	6	43083
SH2B1	16	28857921	28885526	40	2	51457
NFYC	1	41157320	41237275	178	15	51057
PAQR4	16	3019246	3023490	6	3	42944
ZDHHC23	3	113666748	113684248	27	7	48825
NECAB2	16	84002237	84036381	220	21	42737
MZT2B	2	130939310	130948302	13	2	44435
C1orf192	1	161334521	161337664	17	1	48988
CCDC85B	11	65657875	65659105	2	1	47515
PPP4R2	3	73045936	73118350	207	9	51367
PCDHA9	5	140227048	140391929	266	13	48926
CBX6	22	39257455	39268319	15	5	44856
GPR115	6	47653600	47689757	134	7	51341
RUFY4	2	218899683	218955304	110	11	49419
PPP3CA	4	101944566	102269435	652	39	49720
NRP1	10	33466420	33625190	547	45	49233
CACNG2	22	36959968	37099603	335	36	46206
NTPCR	1	233086351	233119628	70	7	50922
AC116407.1	17	30506379	30506885	2	1	53918
CTD-314811	19	49966009	49989488	50	7	47113
RALGPS1	9	129677053	129985445	415	16	48648
TMPRSS5	11	113558272	113577095	50	10	50483
MTERFD1	8	97251626	97273838	27	4	47407
POLR1A	2	86247339	86333278	172	15	48077
ATP8A2	13	25946209	26599989	1775	91	48296
TCAP	17	37820440	37822808	5	2	45471
ANLN	7	36429415	36493400	169	22	51140
TBC1D22A	22	47158518	47571336	1329	75	49224
PIAS4	19	4007644	4039384	90	8	46868
HEPHL1	11	93754527	93846917	157	13	50997
AVPR1B	1	206223976	206231639	19	3	35578
RSAD1	17	48556161	48563336	11	3	47063
FGFR1OP2	12	27091316	27119583	68	14	51272
FOXL1	16	86609974	86615303	12	4	47265
ARHGAP9	12	57866038	57882597	29	7	46004
C19orf33	19	38794801	38795649	4	2	50849
LCN6	9	139632619	139642905	18	2	43954
C11orf63	11	122753391	122830506	200	29	47628
ADARB1	21	46493768	46646478	358	22	50463
DCDC2	6	24171984	24358280	666	38	48383
ALPK2	18	56148479	56296189	508	51	50883
CYP1A1	15	75011883	75017951	3	2	46338
SON	21	34914924	34949812	26	6	48431

CDC73	1	193091147	193223031	159	11	50012
OR6C74	12	55640982	55642086	7	2	46313
C14orf28	14	45366498	45376460	8	4	41575
NHLRC2	10	115614420	115676953	42	9	45210
SNAP47	1	227916240	227968927	118	15	50697
MT4	16	56598961	56602869	14	5	48500
NCOA2	8	71021997	71316040	415	17	50489
PLTP	20	44527399	44540794	23	8	48333
MARCH1	4	164445450	165305202	2239	101	49291
NCL	2	232318242	232348352	76	10	51992
C1orf68	1	152691998	152692905	7	2	52444
CDRT1	17	15468798	15522826	66	11	46584
FOXS1	20	30432103	30433420	2	1	50992
DEFB126	20	123010	126392	6	2	44518
BAIAP3	16	1383602	1399439	41	11	44906
FAM83F	22	40390953	40439533	57	7	50780
GAB1	4	144257915	144395721	221	26	48823
ZNF787	19	56598732	56632649	48	6	40104
MRPL35	2	86426478	86440917	28	4	48943
TDRD15	2	21346789	21366144	20	6	50849
DDX19A	16	70380732	70407286	20	6	45118
B3GALT5	21	40928369	41045064	330	36	51108
NPY2R	4	156129781	156138230	13	4	48230
TUBA8	22	18593097	18629321	70	13	42622
TCEB2	16	2821415	2827298	16	2	44722
ATP5EP2	13	28519343	28519727	3	2	35947
RP11-178C	17	58018269	58050462	38	6	51914
CAGE1	6	7326889	7389976	170	16	48073
OR10G9	11	123893720	123894655	6	3	51715
AC008372.	14	78227711	78228033	3	1	55131
JADE1	4	129730779	129796379	62	10	48282
CRYAA	21	44589118	44592915	10	4	36662
PICALM	11	85668727	85780924	298	17	53152
KIAA1009	6	84833960	84937353	171	13	43679
SLCO1B7	12	20968673	21245679	1041	22	47704
SCOC	4	141178440	141306880	261	23	47889
HSPA1B	6	31795512	31798031	5	3	42458
CCR8	3	39371197	39375171	3	2	45149
IZUMO2	19	50655805	50666452	15	5	42228
ALDOB	9	104182860	104198105	44	7	50922
PHACTR3	20	58152564	58422766	767	54	47715
M1AP	2	74785010	74875465	45	8	39822
TUFT1	1	151512781	151556059	84	13	49061
MRPS26	20	3026591	3028900	4	2	41846
LUC7L2	7	139026106	139107345	205	4	49333
FAM221A	7	23719749	23742868	75	13	51354
RPL38	17	72199721	72206794	3	2	39407
ATF5	19	50431959	50437192	23	7	48479
RBM4	11	66384097	66434153	37	9	46701
PKDCC	2	42275160	42285668	33	5	49370
GLDC	9	6532464	6645650	380	39	50406

COX7C	5	85913721	85916779	4	2	41857
KRT222	17	38785049	38821393	42	5	48304
SMG9	19	44235301	44259142	38	4	49138
KIAA2018	3	113367232	113415493	45	3	51100
ITGA5	12	54789045	54813244	22	6	41459
TMEM106E	7	12250867	12282993	163	9	53605
MYBPC2	19	50936160	50969578	77	12	48899
OLFM4	13	53602894	53626192	70	17	47171
RP11-125O	12	21200113	21329829	406	22	48434
MSR1	8	15965387	16424999	1122	46	45514
TFAP2E	1	36038971	36060929	6	2	39941
RP11-167N	12	95770984	95774672	19	5	50291
PSG1	19	43370616	43383974	21	3	31663
GSDMB	17	38060848	38076107	46	4	50722
POTEE	2	131975882	132022965	1	1	46224
ADSL	22	40742507	40786467	35	5	50008
ZNF98	19	22573821	22715287	386	33	52165
AL356356.1	1	150521897	150524367	1	1	37457
LST3	12	20968608	21243179	1029	22	47683
SLC27A2	15	50474393	50528592	197	20	51081
AP000769.1	11	65222728	65234028	22	3	53952
ATRAID	2	27434895	27440046	10	3	50585
MRP63	13	21750784	21753223	3	2	52706
ZNF713	7	55955169	56009918	115	15	52933
FAM177A1	14	35514113	35582336	233	23	52259
SDHA	5	218356	256815	201	4	50410
MAP2K1	15	66679155	66784650	270	18	51223
ADAMTS12	5	33523640	33892297	1059	68	49118
FAM57A	17	635652	646206	32	8	50449
PTTG1IP	21	46269500	46293752	85	14	49292
GPS2	17	7214643	7218883	9	4	41921
DDO	6	110712974	110736765	77	14	51043
INSL5	1	67263424	67266939	7	2	52562
CCDC71	3	49199968	49203754	4	1	45287
SP4	7	21467652	21554440	217	27	46113
PCDH18	4	138440072	138453648	20	4	50643
HRSP12	8	99114572	99129469	47	9	52682
MMP13	11	102813724	102826463	27	5	49242
DERL1	8	124025404	124054663	67	11	49974
BCAT2	19	49298319	49314286	36	7	43522
CTLA4	2	204732509	204738683	5	2	50138
GHRH	20	35879489	35890238	21	5	37294
AL356215.1	11	35150091	35150215	1	1	56632
PLEKHG2	19	39903225	39919054	34	8	48057
C17orf99	17	76142434	76162258	75	15	42123
TBCB	19	36605191	36616849	26	6	51212
RBMXL2	11	7110165	7112379	5	2	50929
SCARF2	22	20778874	20792146	39	8	44821
PP2D1	3	20021453	20053822	110	14	52131
GNA11	19	3094408	3124002	82	9	42316
BHMT2	5	78365540	78385289	45	7	50181

CSF3R	1	36931644	36948879	28	7	47158
ZNF782	9	99578754	99637905	23	10	38216
INTS5	11	62414320	62420774	2	1	49458
PP13004	7	36118694	36125346	25	7	47568
TRIM25	17	54965270	54991399	27	6	47067
BAMBI	10	28966271	28971868	8	3	50352
AC011530.	19	46282695	46289231	8	3	47334
HBE1	11	5289582	5526847	1112	47	50860
LRRIQ1	12	85430092	85657002	226	13	50696
LEF1	4	108968701	109090112	189	16	48881
COIL	17	55015548	55038415	46	10	47648
TPTE2	13	19997017	20110903	172	11	43597
UBR4	1	19401000	19536770	230	19	49900
SNRK	3	43328004	43466256	149	20	48528
EFCAB10	7	105205567	105241322	68	12	52449
FAM218A	4	165878100	165880273	5	2	50171
CTU2	16	88772871	88781794	57	10	40945
PTPRS	19	5158506	5340814	564	71	47064
KPNB1	17	45726842	45762871	43	9	44998
RPEL1	10	105005644	105007773	3	2	48747
ITM2B	13	48807294	48837063	29	5	45318
C9orf152	9	112952328	112970469	59	11	50384
SEMA3D	7	84624869	84816171	236	24	49140
SSFA2	2	182756560	182795465	49	5	43566
FARP1	13	98794816	99102027	1013	108	48108
LYPD1	2	133402426	133429152	47	3	51359
PIAS1	15	68346517	68483096	130	16	48349
DYRK4	12	4671370	4723325	143	23	48324
MTRNR2L7	10	37890366	37891859	7	2	51225
ACP6	1	147101453	147142618	99	12	47127
C17orf50	17	34087916	34092098	8	3	45549
RPS19	19	42363988	42376994	20	2	44594
RP11-352D	20	4050799	4055812	34	10	48944
KCNH4	17	40308909	40333296	21	4	47247
MAL	2	95691422	95719737	17	5	45898
SFTPD	10	81697496	81742370	215	13	45120
PSENE1	19	36236015	36237911	3	2	55689
MME	3	154741913	154901497	325	39	44396
POLR1C	6	43477440	43497323	31	5	44929
PLAT	8	42032236	42065242	46	8	48261
XRCC6	22	42017123	42060044	30	6	43529
GJE1	6	142454227	142456288	2	1	52602
KBTBD2	7	32907784	32933743	48	7	49747
TMEM183/	1	202976514	202993976	24	5	51497
LRRN1	3	3841121	3889387	135	17	46577
GBX2	2	237073879	237077012	3	2	40895
IGFBP5	2	217536828	217560248	44	5	43001
GYS1	19	49471382	49496567	30	6	39174
NACC1	19	13228917	13251955	30	7	45705
LMO2	11	33880122	33913836	100	17	50641
NEUROG3	10	71331454	71332994	4	2	40479

RP11-625H	15	62929371	62937490	15	5	44095
CTTNBP2	7	117350705	117514193	302	34	46544
AQP5	12	50355653	50359464	3	2	36446
DEFB134	8	11850692	11853821	13	4	45629
PSPC1	13	20248896	20357142	156	12	48762
FAM178B	2	97541620	97684175	269	17	43421
CYB5D1	17	7761064	7765600	4	2	44919
LRP5	11	68080077	68216743	255	19	49288
ATF6	1	161736084	161933860	508	15	46069
PDRG1	20	30532758	30539895	4	1	46346
LAMB1	7	107564244	107643700	147	24	47853
MYEOV	11	69061605	69182494	180	26	46721
PABPC1L	20	43538703	43587676	84	13	50560
IRAK2	3	10206549	10285427	235	29	48469
PSEN1	14	73603126	73690399	156	16	49755
INSIG1	7	155089486	155101945	39	8	48658
FAM153A	5	177134982	177210399	19	5	40494
DAO	12	109252708	109294819	106	18	44529
LSP1	13	25591541	25591675	1	1	51783
LOH12CR1	12	12510013	12619840	297	24	48422
ZSWIM4	19	13906274	13943044	53	5	43829
RGS12	4	3294755	3441640	295	32	47918
HTN1	4	70916119	70924562	25	6	49483
AL121761.	20	19738296	19738679	1	1	53913
UBTD2	5	171636644	171711075	211	11	52663
STXBP4	17	53046088	53241646	429	17	50555
MICAL1	6	109765265	109787171	35	7	48450
ARHGEF15	17	8213559	8225829	38	9	44569
ZNF579	19	56088899	56092211	10	3	51048
RASD1	17	17397751	17399709	6	3	39692
XAF1	17	6658766	6678966	41	8	47604
SASS6	1	100549119	100598511	85	11	49496
RP11-342N	15	67435072	67439277	9	4	49789
AC138517.	5	138852108	138852506	1	1	38702
TRAPPC12	2	3383446	3488865	269	22	50702
ZNF595	4	53179	88099	34	4	47356
TFR2	7	100218039	100240402	32	6	47179
CPA6	8	68334360	68658620	683	51	48698
ERGIC2	12	29490285	29534122	78	9	51115
TBCA	5	76986991	77164604	549	31	50174
CINP	14	102808956	102829253	22	7	49049
RBM11	21	15588451	15600693	61	9	52882
FGF7	15	49715293	49780972	193	17	47106
PRKCI	3	169940153	170023769	268	9	42984
SOAT2	12	53497302	53518322	77	6	51613
ZNF510	9	99518147	99540411	4	2	35688
PRR14L	22	32072242	32146126	153	15	48802
CABP5	19	48533210	48547310	79	6	51536
TMEM177	2	120436743	120444083	29	4	48057
TMEM14A	6	52535907	52551386	54	7	48514
LRPPRC	2	44113647	44223144	264	15	47631

MCF2L	13	113548692	113754053	682	67	49377
TLL3	3	9849770	9896822	128	15	50234
C20orf166	20	61147660	61167971	100	11	48946
PRDM1	6	106534195	106557814	35	9	50816
C19orf77	19	3474405	3480540	11	4	39040
PCSK4	19	1481427	1490751	15	4	39330
RTCB	22	32783569	32808242	85	13	50457
C15orf52	15	40623653	40633168	22	7	49843
CLCC1	1	109472130	109506111	101	17	50611
ASPSCR1	17	79934683	79975282	32	8	36443
VWA5A	11	123986069	124018428	69	13	49204
TNFRSF13C	22	42321045	42322822	5	1	47440
SERPINA3	14	95078714	95090392	28	8	48669
PARVA	11	12398732	12552348	411	56	47350
TDP2	6	24650205	24667261	48	9	44997
SYCE2	19	13009600	13030090	25	5	45441
CASP1	11	104896170	104972158	189	14	51615
MB21D2	3	192514604	192635950	268	21	46990
SLC30A10	1	219858769	220131989	771	35	51074
SMU1	9	33041762	33076665	93	13	51976
AC006486.	19	42746927	42749125	7	2	50740
SPTLC1	9	94794281	94877666	238	20	46961
DNM1	9	130965658	131017527	90	12	47323
SAMD5	6	147830063	148058683	887	59	50187
ZKSCAN8	6	28109688	28127250	42	6	52611
TBC1D20	20	416124	443197	55	8	47904
CLDN24	4	184242917	184243579	2	1	51423
UBR1	15	43235095	43398311	145	13	45331
ODF4	17	8243182	8249364	27	3	51060
BAI1	8	143530791	143626370	172	27	45669
NKX6-1	4	85413140	85419603	5	2	46093
TMEM219	16	29952206	29984373	33	4	46964
NIT1	1	161087876	161095235	7	3	48207
RPS6KL1	14	75370657	75390099	48	8	50080
CHRM4	11	46406640	46408107	1	1	48349
RASEF	9	85594500	85678092	90	7	49602
ZMAT4	8	40388109	40755352	1030	69	49838
BROX	1	222885895	222908538	28	7	41821
MLIP	6	53794780	54131078	676	37	50175
LRP12	8	105501459	105601252	141	15	50429
DYNC2LI1	2	44001178	44037149	126	11	49007
AHI1	6	135604670	135818914	250	24	43588
AL020996.:	1	26145212	26147288	4	1	50104
TPP1	11	6634000	6640692	10	4	44663
APOBEC4	1	183615541	183622451	36	2	47575
TM4SF4	3	149191761	149221068	183	17	48013
ANKRD26	10	27280843	27389421	346	18	48985
RSRC2	12	122989190	123011547	30	4	51661
CREB3	9	35732332	35737001	6	4	47140
CYS1	2	10196907	10221071	88	16	51472
RNF6	13	26706253	26796791	314	32	50446

OSBPL6	2	179059208	179264160	502	42	49729
ADH1A	4	100197524	100212185	32	8	48685
SPATA7	14	88851268	88936694	88	11	47437
CCDC42B	12	113587663	113597081	14	1	53098
JRKL	11	96123153	96240738	272	20	50054
MRPS17	7	55954970	56022932	145	17	52858
INTS12	4	106603784	106817143	408	12	49309
RAB19	7	140103843	140126050	66	15	48607
IQSEC1	3	12938719	13114617	461	61	47303
ZMYM2	13	20532810	20665968	216	14	47663
SCAP	3	47455203	47518616	40	5	48044
ELOVL1	1	43829068	43833696	3	2	49438
ZNF620	3	40547483	40560227	9	2	47451
FLYWCH1	16	2961938	3001209	191	22	46880
ASXL1	20	30946155	31027122	80	5	49426
HRNR	1	152184558	152196669	34	4	40826
B3GNT2	2	62423248	62451866	36	7	46371
CERCAM	9	131174030	131199626	43	2	45930
AC004899.	7	48887362	48891221	10	4	48468
CDK10	16	89747145	89762772	51	8	49048
NAP1L5	4	89617066	89619386	6	3	44773
ANKRD34C	15	79575146	79590580	23	4	51786
SLC39A1	1	153931575	153940188	11	4	47724
RTN4IP1	6	107018903	107077373	194	12	52161
TAAR1	6	132966123	132967142	3	2	44700
LRRC34	3	169511216	169530774	42	4	38819
KIF5A	12	57943781	57980415	44	9	46180
RAB37	17	72666717	72743474	95	16	44216
RBFOX1	16	6069095	7763340	8850	408	49256
KRTAP19-1	21	31852018	31852663	1	1	48583
USP45	6	99880190	99969604	198	16	50097
LYPLAL1	1	219347186	219386207	53	9	48311
OCSTAMP	20	45169585	45179213	22	6	47894
PI4K2A	10	99344131	99436191	170	20	49721
MMP3	11	102706532	102714534	20	4	52555
EPPK1	8	144939497	144952632	23	8	35986
XAB2	19	7684411	7694451	25	3	51547
THOC1	18	214520	268050	85	10	51664
MYH1	17	10395624	10421860	31	6	44786
CXCL13	4	78432907	78532988	129	21	48761
AL161645.:	10	135341026	135342661	6	3	41025
MEOX1	17	41717756	41739322	58	8	47859
THBS3	1	155165379	155178842	14	4	51312
TLDC1	16	84511681	84587639	472	43	47545
ACACB	12	109554400	109706031	427	39	49043
HMMR	5	162887209	162918947	72	10	50539
CEP135	4	56815037	56899529	163	20	51120
SLC26A4	7	107301080	107358254	73	15	47514
ZNF404	19	44376515	44405537	39	4	50714
OR10W1	11	58034264	58035732	1	1	49358
IL16	15	81451916	81605104	346	23	49424

PTRF	17	40554470	40575535	71	9	49433
GRM3	7	86273230	86494200	387	32	49370
VAR52	6	30876019	30894236	77	8	42775
STXBP5L	3	120626919	121143608	1393	27	51480
TOR1A	9	132575223	132586413	24	6	48244
CELF2	10	11047259	11378674	1052	77	48422
PRPF40B	12	49962001	50038449	70	6	42945
PPM1A	14	60712470	60765805	83	7	49138
C11orf42	11	6226796	6232362	6	3	45228
ZFYVE27	10	99496878	99520664	74	7	48913
GPR17	2	128403439	128410213	23	7	47039
LGALS13	19	40093164	40098116	6	4	45453
THAP2	12	72056789	72074419	19	4	46319
MCM6	2	136597196	136633996	43	6	46343
JUP	17	39775692	39943183	290	29	42837
GPATCH1	19	33571786	33621448	126	7	48972
CCDC148	2	159027593	159313265	1045	41	48930
SLC7A4	22	21383007	21387129	8	3	40119
CHRNA9	4	40337346	40357234	102	10	50159
SOX30	5	157052687	157098488	108	14	50064
PLXNB1	3	48445261	48471594	15	3	49135
CCL26	7	75398851	75419214	82	9	45998
CUBN	10	16865963	17171830	1052	65	49389
C16orf58	16	31500792	31520630	16	5	47867
RAB38	11	87846410	87908635	225	23	51129
MLLT10	10	21823094	22032559	146	21	43893
NPLOC4	17	79523913	79615495	355	16	49319
CD300LB	17	72517313	72527613	27	5	43428
SLC25A41	19	6426048	6433790	8	4	39098
UBALD1	16	4658884	4665028	7	2	47643
KCTD21	11	77882295	77899868	41	6	50312
RP11-147C	1	96403457	96488436	242	23	51956
SET	9	131445703	131458679	4	2	37452
TNFRSF21	6	47199268	47277641	153	27	47696
DPF2	11	65101225	65120720	19	5	46653
C8orf48	8	13424352	13425796	3	1	53003
SERPIN5	18	61143994	61172318	116	8	49392
RPA3	7	7676149	7758238	261	18	51030
MTMR14	3	9691117	9744077	65	9	45012
CTC-398G3	19	11577055	11616513	99	10	43764
SLAMF9	1	159921282	159924044	10	3	45016
SPSB4	3	140770244	140867453	165	15	48754
CNOT6	5	179921412	180005405	278	12	49564
TMEM67	8	94767072	94831462	39	8	49293
NCKAP1L	12	54891495	54937726	95	23	46728
BAAT	9	104122699	104145801	48	5	51475
CCDC151	19	11531272	11546603	17	4	37218
ZNF214	11	7020549	7041599	67	7	50371
FPR2	19	52255279	52273779	63	11	50206
SLC15A2	3	121612936	121662949	154	5	52203
DBH	9	136501482	136524466	107	23	40440

AP4M1	7	99699172	99707968	18	4	49515
RAPH1	2	204259068	204400133	153	17	46363
APOBEC3A	22	39348746	39359188	19	6	44041
BDKRB1	14	96722161	96735304	50	10	48893
KIFC1	6	33359313	33377701	37	9	49582
EMC3	3	10004221	10052800	128	5	51050
AIF1	6	31582961	31584798	8	4	48785
AC131971.	11	3011093	3012563	1	1	56398
SMLR1	6	131148546	131158275	35	6	47940
ZBTB9	6	33422356	33425325	4	2	47731
PDE10A	6	165740776	166400091	2221	170	49645
RNASEH1	2	3592383	3606206	32	7	49650
GTF2H4	6	30875961	30881883	22	5	38497
FABP5	8	82192598	82197012	3	1	39021
RNF168	3	196195654	196230639	83	8	46300
RAC1	7	6414154	6443608	105	15	47162
BMP4	14	54416454	54425479	12	3	51058
WNT9A	1	228106357	228135599	75	9	50703
ZIC2	13	100634026	100639018	7	2	37124
TIGD3	11	65122238	65125084	4	2	50123
IPO4	14	24649425	24658170	13	3	43265
RP11-468E	14	24649601	24659622	13	3	43265
USP53	4	120133742	120216672	218	20	52361
UXS1	2	106709759	106810795	222	27	47030
PRKAR1A	17	66507921	66547460	91	12	52254
COPG2	7	130146089	130353598	194	17	49864
ILF3	19	10764937	10803093	46	6	46813
PDZK1IP1	1	47649265	47656716	12	5	45798
RAD1	5	34905369	34919094	18	4	49730
PCDHA1	5	140165876	140391929	347	16	48487
PTH	11	13513602	13517728	7	2	51387
MAF1	8	145159402	145162514	3	1	41724
ITGB2	21	46305868	46351904	178	41	46313
DKFZP434F	9	98534605	98537013	9	4	49911
NUDT21	16	56463045	56486111	35	8	51535
BNC1	15	83924655	83953466	36	6	49771
GTF3C2	2	27548716	27579868	20	5	46428
SERPINF1	17	1665253	1680868	54	7	49162
KCNA4	11	30031288	30038570	8	3	47009
TMEM154	4	153539784	153601317	139	22	44390
PRLHR	10	120352916	120355160	7	3	51260
CYB561	17	61509665	61523739	14	4	46775
BAG6	6	31606805	31620482	40	12	47535
YIPF1	1	54317392	54356407	110	9	51770
RP11-108K	10	135204338	135233999	62	7	45091
HPS1	10	100175955	100206684	97	13	50559
RILPL2	12	123899936	123921264	43	8	43232
KNG1	3	186435065	186461743	136	14	51999
LONRF1	8	12579403	12613582	77	7	47365
OR7G1	19	9225274	9226439	5	2	46470
SNX15	11	64794880	64808044	42	4	50037

IRG1	13	77522632	77532777	17	6	47125
FAM49A	2	16730727	16847599	256	41	46603
BRINP2	1	177140633	177251558	183	25	50804
AC062017.	2	240323130	240324058	1	1	35124
ALDH3A2	17	19551449	19580911	41	6	46496
SPNS1	16	28985542	28995869	10	3	40408
AHCTF1	1	247002400	247095280	160	18	48611
EID1	15	49170083	49172380	1	1	47999
AL137002.:	13	113755563	113756608	2	1	41155
C14orf119	14	23563974	23569665	20	5	46363
STRA13	17	79976578	79981983	14	2	38958
PSMA8	18	23713816	23773319	94	8	49463
DIS3L2	2	232825955	233209060	847	26	44707
LTF	3	46477136	46526724	154	18	50740
UROC1	3	126200124	126236616	146	30	48926
ZBTB6	9	125670335	125675609	9	3	35575
RP11-399J1	11	64781654	64808042	74	10	48215
PLIN2	9	19108373	19149288	127	21	49192
TMEM178/	2	39892122	39945103	48	4	49252
AKIRIN1	1	39456895	39471731	43	5	49921
URB1	21	33683329	33765335	150	7	49725
TMEM178E	7	140774032	141180180	831	66	49876
RBMS3	3	29322473	30051886	2553	137	49378
FBP1	9	97365415	97402531	115	13	51536
AGER	6	32148745	32152101	11	5	46250
HPCAL1	2	10443015	10567743	461	58	48766
LRFN2	6	40359325	40555204	678	51	49853
SPOPL	2	139259371	139331117	99	13	48692
HSD11B1L	19	5680615	5688533	7	3	42611
HADH	4	108910870	108956331	101	6	48730
DHRS3	1	12627939	12677737	143	26	48778
ACAT2	6	160181360	160200144	67	10	49428
CAD	2	27440258	27466811	49	5	51374
GAL3ST2	2	242716240	242743623	30	4	33224
PDE3B	11	14665269	14892350	239	24	48526
UGT2B28	4	70146217	70160768	2	1	49411
USP47	11	11862970	11980870	200	20	49589
IQCJ-SCHIP	3	158680024	159615155	1628	87	49389
ERI1	8	8859657	8974256	384	24	50542
PADI3	1	17575593	17610728	151	21	52282
EPRS	1	220141943	220220000	256	10	51696
PPARD	6	35310335	35395968	147	17	43407
BCL7A	12	122457328	122499948	90	18	45054
MAN1A2	1	117910071	118071494	403	20	52782
PELI1	2	64319786	64371588	114	13	48325
PRG4	1	186265405	186283694	22	5	49605
PLEKHA4	19	49340354	49371889	86	6	50548
PCSK6	15	101840818	102065405	898	103	47953
TNNT2	1	201328136	201346890	74	10	43813
CCDC114	19	48799714	48825151	80	9	49590
PRPF8	17	1553923	1588176	78	6	45015

TRDMT1	10	17184253	17244053	179	7	53310
UQCC1	20	33890369	33999944	155	7	47368
NUDT16	3	131100515	131107674	6	3	42830
ULBP1	6	150285143	150294846	35	4	41384
HGF	7	81328322	81399754	114	9	49396
TASP1	20	13246709	13619587	860	49	49618
NR6A1	9	127279554	127533589	79	3	47635
BTN3A3	6	26440700	26453643	30	7	50457
RNF123	3	49726932	49758962	42	7	48175
SYNPR	3	63213991	63602597	1283	90	50744
CD244	1	160799950	160832692	86	6	50880
NPHP4	1	5922871	6052533	351	15	51263
SIPA1L3	19	38397868	38699012	736	43	50222
ILDR2	1	166882443	166944719	77	15	46732
EPHX1	1	225997794	226033260	110	29	49913
ATXN2L	16	28834356	28848558	25	2	48960
NUDCD2	5	162873532	162887146	18	4	49238
LRTOMT	11	71791382	71821828	48	3	43279
VWA7	6	31733367	31745108	25	10	47076
ACSF3	16	89154783	89222254	300	16	49339
TNFRSF12A	16	3068446	3072384	6	2	48458
SORBS2	4	186506598	186877806	1356	124	49423
LYZL6	17	34261522	34270703	34	4	47463
TSPYL1	6	116597741	116601066	8	2	49310
CTD-2616J	19	51853627	51871353	53	8	43926
MRPS7	17	73257755	73262454	8	1	47718
RAD51AP2	2	17691851	17699706	26	2	48441
PQLC1	18	77662420	77711664	102	15	47529
E2F1	20	32263489	32274210	12	5	42346
AC020952	19	31640362	31640757	1	1	37151
ZNF599	19	35248981	35264134	23	7	46664
SVIL	10	29746267	30025710	1019	72	51473
UPP1	7	48128225	48148330	29	7	49994
LINS	15	101099574	101143435	183	18	50343
RRM2	2	10262455	10271545	15	4	47076
C11orf57	11	111944810	111955874	7	2	46067
SLC26A9	1	205882176	205912588	108	15	47247
ASB7	15	101142739	101191910	115	16	48787
FURIN	15	91411822	91426688	24	5	46430
SHC4	15	49115932	49255641	317	38	48196
PSMC4	19	40476912	40487348	19	3	43271
HSDL1	16	84155886	84178797	53	10	50646
CENPF	1	214776538	214837931	186	16	48019
POU1F1	3	87308554	87325737	27	6	48761
IL2RA	10	6052652	6104288	216	37	49651
GPR37L1	1	202091986	202102720	43	11	46291
ST20	15	80191182	80216044	116	9	54333
IMP3	15	75931426	75941047	13	5	48346
CRELD2	22	50311815	50321188	71	4	51907
C17orf103	17	21142183	21156722	32	7	44387
ILK	11	6624961	6632102	27	4	51102

ANXA7	10	75134859	75173834	47	1	53238
SPINK7	5	147691982	147695485	9	2	47894
SLC6A5	11	20620946	20680831	219	29	49955
PSMD13	11	236546	252983	75	8	51599
OVOL1	11	65554493	65564690	24	6	51856
CDC34	19	531714	542097	21	4	33389
ASCC2	22	30184597	30234271	122	14	50129
Sep-07	7	35840542	35944917	174	10	49803
ACAD9	3	128598439	128634910	103	13	45858
FOX E1	9	100615536	100618986	17	3	49989
TFDP2	3	141663277	141868386	635	16	52543
ROR1	1	64239693	64647181	831	58	48274
C10orf99	10	85933494	85945050	29	7	49903
EPB41	1	29213603	29446553	334	17	47655
RCS D1	1	167599330	167675486	254	40	48417
C8orf44-SG	8	67579831	67772707	243	10	44522
GEMIN5	5	154266976	154317769	109	12	43983
RDH10	8	74206847	74237516	67	11	50929
OR52B2	11	6190560	6191638	1	1	44691
CTS Z	20	57570240	57582302	42	8	52330
SNAPIN	1	153631130	153634306	4	2	50254
STX17	9	102668915	102732618	105	9	50989
ZNF710	15	90544624	90625438	122	14	46107
ZNF486	19	20278037	20311299	94	6	47852
FUZ	19	50310126	50320633	16	5	45764
ZNF487	10	43932282	43991517	165	16	50457
SPATS2	12	49760367	49921205	271	14	46318
MRPS18C	4	84377085	84390888	24	4	51056
BHLHA15	7	97840739	97842291	5	3	47021
NIF3L1	2	201754050	201768655	13	3	47469
ARHGAP42	11	100558384	100862668	1191	50	51274
OR10G7	11	123908773	123909717	4	2	47798
CLEC2A	12	10051272	10084980	91	21	48671
CPLX2	5	175223313	175311023	207	30	49959
HEG1	3	124684554	124774802	234	23	50332
ALDH1L2	12	105413568	105478355	228	24	50673
HDDC2	6	125541108	125623282	227	17	50591
GPR137C	14	53019866	53104431	172	21	51630
YOD1	1	207217194	207226325	10	2	47752
KCNH1	1	210856555	211307457	1220	75	50599
SCNN1D	1	1215816	1227409	5	1	41715
CISD2	4	103790135	103810399	28	4	50888
PDE6D	2	232597135	232650982	99	7	50477
TATDN1	8	125500726	125551699	91	13	53025
WNT3A	1	228194752	228248961	82	10	48058
C4orf48	4	2043689	2045697	3	1	40013
NDUFA8	9	124894745	124922098	98	12	48469
ASNSD1	2	190526111	190535557	20	5	48806
AL136531..	20	1316228	1317555	2	1	52979
SLC25A25	9	130830480	130871524	101	2	53008
FAM188A	10	15820169	15902519	81	10	43830

SYNJ2BP	14	70838148	70883778	165	15	51767
RASGRP2	11	64494383	64512928	16	2	43754
LMAN1L	15	75105057	75118099	31	6	41821
KIF23	15	69706585	69740764	16	3	36527
TGFBR2	3	30647994	30735634	264	32	50225
KCNK9	8	140613081	140715299	225	33	46354
SLC5A6	2	27422455	27435826	21	3	46960
TMEM45B	11	129685714	129729898	119	16	52975
AGL	1	100315640	100389579	233	22	46873
DEFB133	6	49913814	49917157	12	5	49114
LIN52	14	74551499	74667936	342	13	49984
MTPAP	10	30598730	30663377	167	15	47717
FAM180B	11	47608198	47610746	1	1	54014
C21orf90	21	45937099	45945835	9	2	36336
ARMC6	19	19144384	19170563	44	5	51146
HBCBP	12	57390745	57391335	1	1	55273
C3orf70	3	184795838	184870802	188	18	50243
RHOT1	17	30469473	30580393	128	10	48667
OGFOD1	16	56485402	56513012	62	9	51319
PPP4C	16	30087299	30096698	10	3	45833
H2AFJ	12	14927270	14930936	12	6	49256
RPS26	12	56435637	56438116	4	2	43755
RP11-410N	20	31175281	31196695	46	8	42610
C17orf74	17	7328934	7330887	3	2	45495
TCEA3	1	23707554	23751233	103	14	46201
HMCN2	9	133046882	133309510	379	62	44172
RPS3A	4	152020725	152025804	3	2	36787
NME1	17	49230897	49239789	31	5	52577
NSL1	1	212899495	212965124	258	12	50644
TSGA13	7	130353488	130372268	44	9	48820
CCDC117	22	29168662	29185283	47	9	48398
RP11-315D	15	68486139	68522056	46	3	50462
KIF5C	2	149632819	149883273	180	8	45399
AC112205.	5	162866447	162873821	10	3	49548
SELP	1	169558087	169599431	112	20	48036
HIST1H3G	6	26271146	26271612	1	1	40211
PFN2	3	149682691	149768575	203	23	51058
TOMM5	9	37582643	37592639	21	3	50823
ST3GAL4	11	126225535	126310239	213	33	49912
GPX8	5	54455946	54462899	14	3	51692
FGF19	11	69513000	69519410	6	3	40018
DNAJB11	3	186285192	186315061	76	4	48772
SIX2	2	45232300	45236569	10	5	47237
EIF6	20	33866714	33872788	15	1	50270
PCDH15	10	55562531	57387702	5574	182	49961
FBXO2	1	11708424	11715842	14	7	37802
FMO6P	1	171106879	171130707	94	9	50177
AC073569.	12	80198742	80202321	1	1	36257
EYA2	20	45523263	45817492	779	75	48264
CTD-3193C	19	7933605	7939326	11	4	47770
BLOC1S2	10	102033713	102046469	20	5	47899

NRCAM	7	107788068	108097161	988	45	49349
EGLN2	19	41304901	41314338	23	7	47427
TAP1	6	32812986	32821755	82	9	48452
NKX1-2	10	126135592	126138753	11	2	47748
EBF1	5	158122928	158526769	686	48	49855
CYLC2	9	105757593	105780770	83	7	51802
FGF11	17	7341592	7348256	8	2	46885
C5orf52	5	157098561	157107151	33	6	51216
CCDC38	12	96260826	96336752	237	30	51324
RESP18	2	220192131	220197899	18	2	48710
PVRL1	11	119494120	119599794	207	28	48096
CEP95	17	62502706	62538579	38	3	45735
TIGD5	8	144680074	144682485	4	2	44190
SYT7	11	61282785	61348620	69	7	37850
MRPS18B	6	30585486	30594172	17	3	38389
C18orf21	18	33552046	33559241	14	2	50665
ODF3	11	196738	200261	9	4	47223
PLA2G4C	19	48551100	48614074	263	32	47270
SCG2	2	224461658	224467221	7	3	38862
PSMB11	14	23511376	23513269	4	2	42266
LRRTM3	10	68685764	68859588	390	31	49646
PMP22	17	15133095	15168643	69	9	50818
SPATA20	17	48620419	48633213	41	6	45010
SST	3	187386694	187388187	5	2	51599
ITGA2B	17	42449548	42466873	16	4	47584
MIPOL1	14	37667118	38021566	458	13	47369
TMCC2	1	205197304	205242471	116	13	46645
KRT83	12	52708085	52715182	50	5	53485
ASB5	4	177134824	177198722	213	23	52438
CEACAM3	19	42300369	42315591	36	2	45363
DNAJA2	16	46989299	47007699	9	3	38637
TSHZ1	18	72922710	73001905	234	30	46727
UPF1	19	18942747	18979045	61	12	45741
MBTD1	17	49254786	49337524	150	12	49561
AL132989.1	14	58754751	58755865	2	1	44716
ACTR10	14	58666798	58701750	51	8	47267
CTSE	1	206317459	206332104	4	1	30883
NRDE2	14	90742580	90798481	109	13	50368
DEXI	16	11022748	11036317	18	6	46806
ATP5A1	18	43664110	43684300	75	7	52284
FILIP1	6	76001575	76203454	251	16	50847
SCAMP1	5	77656339	77776562	256	10	50308
PKD1L1	7	47814250	47988088	508	38	50664
ARHGEF37	5	148931510	149014531	214	20	51384
OR2Z1	19	8841316	8842371	2	1	35071
IGFL1	19	46733009	46734500	5	2	54222
ERLEC1	2	54014181	54045956	66	12	48731
PLCD3	17	43186335	43210721	61	15	50975
HRK	12	117293949	117319246	23	4	51289
CCDC37	3	126113782	126155399	154	25	49429
SPACA3	17	31297394	31324895	105	23	47626

TMEM116	12	112369086	112450970	121	5	50275
NUGGC	8	27879481	27941388	161	30	49247
NEK6	9	127019885	127115586	204	21	48677
SHB	9	37919131	38069210	326	14	50550
KCTD9	8	25285366	25315992	69	4	52600
SGCD	5	155297354	156194799	2199	86	49702
SYCP3	12	102122426	102133250	13	4	46454
HIPK1	1	114471814	114520426	59	12	47124
DAG1	3	49506146	49573048	93	9	48588
RASL10B	17	34058668	34070540	24	6	48777
EMID1	22	29601840	29655586	165	25	48537
TACSTD2	1	59041099	59043166	11	3	50380
IPO7	11	9406169	9469673	89	10	49842
SPTA1	1	158580496	158656488	148	16	50607
ACOT7	1	6324329	6454451	285	13	46530
MRPS17	7	56019512	56024192	10	3	49421
TLL2	10	98124363	98273675	387	35	50397
COX7A2	6	75947391	75960039	19	4	47492
GNG7	19	2511217	2702707	653	78	41821
NRP2	2	206546714	206662857	220	44	45296
SSTR3	22	37600278	37608362	18	5	45902
MUC3A	7	100547187	100611118	30	9	44287
GADD45GII	19	13064972	13068050	2	1	34385
ZNF653	19	11594242	11616738	65	6	44096
CXXC11	2	242811752	242815975	1	1	32445
RNF111	15	59157374	59389618	406	24	50100
HOXB9	17	46698518	46703839	13	3	50837
SPG20	13	36875775	36944317	136	10	52368
TRNAU1AP	1	28879597	28905051	35	5	48449
DNMT1	19	10244021	10341962	162	17	49014
MS4A6E	11	60102304	60164069	141	15	50667
GABRR1	6	89887220	89940997	216	28	48743
RPLP1	15	69745123	69748255	3	2	38477
UBXN1	11	62443970	62446567	1	1	45518
ZGPAT	20	62338817	62367494	69	6	47639
ST20-MTHF	15	80137537	80216096	248	20	53316
CKB	14	103985996	103989448	5	2	50426
KIF9	3	47269516	47324941	44	5	48552
CSE1L	20	47662849	47713489	102	9	50906
Sep-08	5	132086509	132142933	70	5	40289
MSTN	2	190920423	190927455	3	1	49468
DUSP2	2	96808905	96811179	2	1	40612
PARG	10	51026325	51130715	69	7	48349
PLCH1	3	155093369	155462856	862	27	49438
AP3B1	5	77296349	77590579	579	18	49821
SLC12A9	7	100424442	100464631	68	13	46064
ELFN1	7	1727755	1787590	107	12	44519
LPCAT4	15	34651106	34659479	18	6	40727
ZNF845	19	53837002	53858122	73	14	44059
HAGH	16	1845621	1877195	251	13	52104
DUS2	16	68021649	68113223	105	8	48933

RSPH10B	7	5965181	6010314	3	2	39266
CYP11B2	8	143991975	143999259	21	3	48500
SPATA8	15	97326619	97328845	4	2	47979
KDM6B	17	7743222	7758114	21	6	46974
OR4S1	11	48327775	48328704	2	1	38350
KIR3DX1	19	55043909	55057053	37	13	40727
PSD2	5	139175406	139224051	70	6	50454
REEP6	19	1491165	1497926	23	3	43216
HLF	17	53342373	53402426	119	23	47080
THOC6	16	3074028	3077756	4	2	52333
NMI	2	152126979	152146571	65	7	50719
HIST1H2BA	6	25727137	25727573	4	1	45850
TANC2	17	61086917	61505060	535	19	49106
FAM167B	1	32712834	32714457	1	1	48938
SCGN	6	25652464	25702011	149	23	51369
RRP1B	21	45079429	45115958	34	3	48604
MYNN	3	169490619	169507504	16	3	44772
CXCL10	4	76942273	76944650	6	1	44004
ACSF2	17	48503519	48552206	95	11	50345
TM7SF3	12	27126128	27167367	106	20	50933
ITGB4	17	73717408	73753899	51	10	41833
TGIF2	20	35201891	35222353	12	6	44437
SPG20OS	13	36920568	36943738	56	9	51703
RWDD3	1	95699711	95712781	33	8	51421
IL9	5	135227935	135231516	8	2	50138
CACNA2D3	3	54156574	55108584	2481	178	50305
ERBB4	2	212240446	213403565	3754	174	49282
ANKRD28	3	15708743	15901278	326	12	47370
ESAM	11	124622026	124632186	11	3	47736
CCR10	17	40830907	40835935	4	1	50157
LEFTY1	1	226073982	226099082	72	10	50160
CNGA1	4	47937994	48018689	257	14	49245
TEX26	13	31506840	31549639	128	17	46955
CTSF	11	66330934	66336312	14	3	50443
BAK1	6	33540329	33548019	20	5	50216
CNGA3	2	98962618	99015064	168	18	51485
FBXO4	5	41925356	41941845	17	4	48311
DNAJC17	15	41060067	41099675	47	6	48359
TUBE1	6	112391980	112408732	20	3	50861
ANKRD50	4	125585207	125633887	76	12	49087
S100A2	1	153533584	153540366	8	1	39346
MVB12B	9	129089128	129269320	432	29	51290
ATG13	11	46638826	46696368	42	5	47514
AGTR1	3	148415571	148460795	113	15	48542
KRT27	17	38933060	38938786	21	5	46888
ZBTB18	1	244214585	244220778	1	1	30610
DUSP8	11	1575274	1593150	56	7	50324
CDSN	6	31082867	31088223	67	7	50515
UBN2	7	138915102	138992982	97	10	44652
KRTAP4-9	17	39261584	39262740	3	1	31189
CASP3	4	185548850	185570663	50	8	48109

NEO1	15	73344051	73597547	491	22	47932
RP11-761B	2	47293080	47403650	446	46	47948
PSMA4	15	78832747	78841604	21	3	49374
MYH11	16	15797029	15950890	500	55	46979
SLCO4C1	5	101569690	101632253	213	25	50408
ALG14	1	95439963	95538501	247	25	50699
AC007773.	19	32895915	32896466	2	1	45778
ZNF419	19	57999079	58006048	21	3	52877
TXLNB	6	139561198	139613276	115	11	48121
MICAL3	22	18270415	18507325	829	52	49015
RBPJ	4	26165077	26436541	375	40	48386
ASAP1	8	131064353	131455906	1028	30	51012
SLC4A8	12	51785101	51902980	214	16	51444
VDAC1	5	133307606	133340824	75	11	52315
BNIP1	1	151009046	151020076	24	7	49382
PLAC9	10	81891438	81905115	70	13	49260
KLK5	19	51446559	51456349	25	6	42574
PLA2G12A	4	110631145	110651233	26	6	47500
UNG	12	109535379	109548797	18	7	47655
RP11-123K	12	57643392	57690267	42	8	49752
VSIG8	1	159824106	159832447	26	7	48471
ZNF562	19	9759330	9785776	48	5	50362
DIRAS2	9	93372114	93405386	113	19	50975
C10orf54	10	73507316	73533255	77	18	46684
KLRG2	7	139137436	139168458	91	10	44562
ATP13A5	3	192992579	193096632	310	23	50896
CCDC130	19	13842574	13874110	64	8	46377
VSX1	20	25051521	25062996	33	3	49047
PCDHB4	5	140501581	140505201	9	3	47806
ZCCHC8	12	122957417	122985518	35	6	48801
RWDD2A	6	83903098	83908651	4	2	47788
HUS1	7	47735328	48019178	981	68	51732
METRNL	16	765115	769655	9	2	36006
SLC6A11	3	10857885	10982419	321	31	48642
FAM13A	4	89647106	90032549	1066	42	51450
C10orf2	10	102747124	102754158	13	2	46346
C5orf42	5	37106330	37249530	138	11	51007
FGFR4	5	176513887	176525145	23	4	47819
NDUFS6	5	1801514	1816719	56	7	46905
RP11-324D	16	54279456	54304658	89	6	50818
MC3R	20	54823788	54824871	2	1	42125
TIMM10	11	57295936	57298276	2	1	48679
ARHGAP8	22	45098355	45258665	882	101	45273
VAV1	19	6772725	6857377	205	23	43613
SMYD5	2	73441350	73454365	23	6	50328
TLR1	4	38792298	38858438	173	13	49395
IER2	19	13261229	13265722	8	4	42510
FMO5	1	146646930	146714700	281	13	43904
VSTM2B	19	30017406	30055386	159	20	46793
MYRIP	3	39850405	40301812	1143	50	50721
C6orf201	6	4079440	4131185	139	13	51451

C17orf62	17	80400465	80408705	31	6	45729
NKX2-1	14	36985602	36990354	5	2	48660
FYCO1	3	45959396	46037316	185	15	50638
AGRN	1	955503	991496	6	1	32035
TSEN34	19	54693789	54697585	8	2	45879
AL031320.:	6	143759575	143764295	9	2	53454
AC004466.	12	48178706	48179787	10	3	53260
MLLT11	1	151030234	151040970	14	4	44845
CSRP2	12	77252495	77272840	67	12	47075
C2orf76	2	120059801	120124404	205	26	50232
STK11	19	1189406	1228428	53	11	36466
IFNA2	9	21384254	21385396	1	1	41063
MMRN2	10	88695297	88729238	83	12	48490
EPHX3	19	15337730	15344246	2	1	41637
SEMA6D	15	47476298	48066420	1434	56	47032
PDGFB	22	39619364	39640756	53	6	50089
PARPBP	12	102513956	102591298	101	8	51392
SNF8	17	47006678	47022479	46	7	48436
FASTK	7	150773711	150777953	3	2	48191
RFFL	17	33333009	33416338	64	11	48005
CCDC66	3	56591189	56655846	247	23	50621
LYAR	4	4269428	4291896	88	8	50841
AGTRAP	1	11796141	11814859	42	6	40124
ABCB9	12	123405498	123466196	41	9	45677
ZNF843	16	31445569	31454346	9	3	44764
GSTO1	10	105995114	106027217	61	12	47389
KIF12	9	116848406	116861507	50	10	49575
ADCY1	7	45613739	45762715	381	40	47929
STMN2	8	80523049	80578410	161	22	50427
DNAJB2	2	220143989	220151622	12	2	43461
FAM109A	12	111798455	111806925	11	3	43845
MRPS12	19	39421188	39423802	1	1	35008
CTDSP1	2	219262979	219270664	16	3	38506
TTC19	17	15902694	15948329	87	7	47035
STATH	4	70861647	70868287	11	5	49514
ST3GAL5	2	86066267	86116137	135	12	53146
MAF	16	79619740	79634611	49	14	43128
CADPS2	7	121958481	122526813	1192	55	51342
PQLC2	1	19638820	19655794	75	10	52817
GALK1	17	73747675	73761792	23	7	40003
NECAP2	1	16767167	16786573	37	7	47712
SLFN12	17	33738079	33760302	61	8	47434
HAVCR2	5	156512843	156569880	158	13	50785
C15orf56	15	40542865	40545170	9	2	46542
LPP	3	187871072	188608460	1703	174	47813
SFXN4	10	120900279	120925179	64	7	52002
ZNF107	7	64126511	64171404	97	12	49664
DGKZ	11	46354455	46402104	40	7	44034
TMEM261	9	7796490	7888380	291	31	49863
DONSON	21	34931848	34961014	21	5	49220
NMT1	17	43128978	43186384	163	16	51664

C3orf56	3	126911974	126917025	10	4	46924
LTBP1	2	33172039	33624576	1728	76	49150
STARD4	5	110831731	110848288	18	4	48076
SLC6A19	5	1201710	1225232	91	21	41362
SNRNP27	2	70120692	70132707	15	4	47717
PCDHA4	5	140186659	140391929	308	16	48656
PROZ	13	113812968	113826694	31	3	46842
ERC2	3	55542336	56502391	2575	94	49746
KRTAP12-3	21	46077849	46078258	2	1	49788
TFAP2D	6	50681541	50740701	80	8	51243
SETDB2	13	50018429	50069138	132	13	50427
MS4A14	11	60146003	60185161	98	10	49777
RGPD1	2	87135076	87241104	3	2	38708
ZNF146	19	36705504	36729676	67	6	52074
STARD3	17	37793318	37819737	62	7	46136
WFDC10B	20	44313292	44333658	44	6	51887
ISCA2	14	74960423	74963809	8	2	50141
OR4A47	11	48510269	48511332	3	1	53056
NDRG4	16	58496750	58547532	97	25	43463
FAM102A	9	130702858	130742792	67	4	47795
ZMIZ2	7	44788180	44809477	27	6	48487
RPSAP58	19	23945807	24010937	92	15	51305
CXCL3	4	74902306	74904524	1	1	46878
PCDHA2	5	140174444	140391929	333	16	48576
PRUNE	1	150980896	151008189	57	13	49089
KRTAP10-1	21	46066331	46067564	2	1	45608
NDUFB5	3	179322478	179345435	25	3	50978
RP11-133K	15	40509629	40568597	124	27	44323
TOP2A	17	38544768	38574202	39	4	43241
RFX2	19	5993175	6199583	371	20	47656
BMP8A	1	39957318	39991607	52	11	47732
ABRA	8	107771711	107782473	21	6	49573
C6orf118	6	165693153	165723096	69	9	51027
CHST15	10	125767184	125853206	180	25	46307
CTD-2105E	19	55863669	55870884	13	4	42678
PPP2R5D	6	42952237	42980080	64	9	44954
LY6G6F	6	31674640	31685581	25	9	43494
ZNRF2	7	30323923	30452118	118	17	42118
PDLIM2	8	22435792	22455538	45	10	45111
NHLH2	1	116378998	116386538	19	4	51475
LIMS1	2	109150857	109303702	304	14	46625
IGFBP2	2	217497551	217529159	38	8	43585
DGKH	13	42614176	42830714	716	34	49784
ENKD1	16	67696848	67701168	2	1	40245
DST	6	56322785	56819426	833	22	49677
RAI1	17	17584787	17714767	154	19	46488
BRCA1	17	41196312	41277500	134	4	52246
MYH8	17	10293639	10325267	47	5	48196
SERPINA1	14	94843084	94857030	60	15	49064
KIAA1211L	2	99410309	99552722	325	18	49493
OR51E2	11	4701401	4719084	64	12	45855

CBLN3	14	24895738	24900160	20	5	46633
GTPBP4	10	1034338	1065876	87	11	50284
POLE4	2	75185619	75197255	22	6	48322
TACC3	4	1723227	1746898	128	12	51335
ABL2	1	179068462	179198819	254	15	51074
NINJ1	9	95883771	95896570	45	9	49265
CASC10	10	21781587	21786191	6	2	45235
TLN1	9	35696945	35732392	44	10	48412
AKR1C2	10	5029967	5060223	122	19	47500
SGCA	17	48241575	48253292	29	7	46617
SYT13	11	45261852	45307870	103	11	46066
CLASRP	19	45542298	45574214	27	3	47674
FAM174A	5	99871009	99922445	76	8	51518
SYNGR4	19	48867652	48879633	16	6	46126
LMBRD2	5	36098514	36152063	56	10	48687
EFCAB9	5	171621176	171630456	34	8	50166
PRR5-ARHC	22	45098113	45258586	879	99	45263
C1orf51	1	150254953	150259505	6	2	45681
ATL2	2	38522022	38604427	153	13	49638
FSCN1	7	5632439	5646286	55	12	43711
HTRA1	10	124221041	124274424	175	24	49726
HAGHL	16	776936	785525	21	3	37355
UBASH3A	21	43824008	43867791	195	21	51304
KLHL25	15	86302554	86338261	121	20	50655
CDKL4	2	39402787	39456729	120	8	47557
CDC27	17	45195069	45266788	141	19	51947
ZNF491	19	11908482	11920437	21	4	47401
IL22RA2	6	137464968	137494785	80	13	46192
ELOVL5	6	53132196	53213947	194	11	51753
AP003068.	11	64945077	64949305	7	2	50652
RNF207	1	6265535	6281359	31	4	37396
ACAT1	11	107992243	108018503	45	7	49855
SSMEM1	7	129847700	129856683	17	4	49209
VEGFC	4	177604689	177713881	177	6	48142
AL161915.	1	54569968	54571750	4	2	38193
TACR1	2	75273590	75426826	361	41	46620
ANP32A	15	69070874	69113236	47	8	43512
MALL	2	110841447	110874143	31	6	41043
MYH2	17	10424465	10453274	54	5	49094
SLC41A1	1	205758221	205782876	53	11	46031
FAM196B	5	169291268	169407744	264	40	49167
RP4-583P1	20	62340216	62370456	74	6	47664
CDADC1	13	49822047	49867618	67	4	51709
DUSP22	6	291630	351355	2	1	37266
THAP4	2	242523820	242576864	111	8	50658
AC090673.	12	66291518	66317967	31	7	47181
CAB39	2	231577560	231685790	152	14	47548
TNFAIP2	14	103589779	103603776	26	5	46994
CABP1	12	121078355	121105127	77	14	51116
ZNF57	19	2900896	2918474	72	7	44263
ECI1	16	2289396	2302301	26	3	45285

GNL3	3	52715172	52728508	21	3	48952
CRYBG3	3	97595819	97663810	82	8	50879
SPRR2D	1	153012201	153014407	6	2	47244
SPINK6	5	147582357	147594700	10	5	42430
OR6Y1	1	158516918	158517895	2	1	52995
LGALS3BP	17	76967320	76976191	7	2	42467
DFFA	1	10516579	10532583	14	3	52497
CCDC132	7	92861653	92988338	137	19	48198
TEX38	1	47134527	47139266	3	1	49050
ASB1	2	239335383	239360891	99	12	50020
FABP6	5	159614374	159665742	225	23	51780
CEP41	7	130033612	130082274	93	15	48498
DNAH5	5	13690440	13944652	795	44	51809
COMMD9	11	36295051	36310999	43	6	52137
RFX5	1	151313116	151319833	4	2	47256
MED22	9	136205160	136214986	19	7	48224
IL1RN	2	113864791	113891593	112	9	50278
SPSB1	1	9352939	9429591	293	41	48540
CABP7	22	30116073	30127828	29	7	49284
USPL1	13	31191830	31233686	43	5	46628
CHD7	8	61591337	61779465	285	13	49120
ERVV-2	19	53547991	53554329	13	3	45980
ZSWIM7	17	15879874	15903031	33	3	49426
USP10	16	84733584	84813528	299	20	50622
GRAMD4	22	46971909	47075688	415	30	49153
CHID1	11	867357	915058	80	9	46689
RRNAD1	1	156698234	156706752	13	4	48783
PAX2	10	102495360	102589698	168	19	47546
PTH2R	2	209224438	209719227	1079	52	48666
FLRT1	11	63870660	63886645	46	9	47385
CHRD	3	184097861	184108524	16	4	42502
PPP1R15B	1	204372515	204380919	11	3	42801
RBM47	4	40425272	40632892	513	72	46104
RREB1	6	7107830	7252213	254	28	48294
AIDA	1	222841355	222886552	53	11	42106
MRC2	17	60704762	60770958	68	8	47886
D2HGDH	2	242673994	242708231	30	5	32983
BBS2	16	56500748	56554195	103	11	51259
UBQLN4	1	156005092	156023585	21	6	45493
BRIP1	17	59758627	59940882	228	16	49330
AL049829.1	14	23790839	23791484	1	1	50467
TRIM56	7	100728720	100735017	21	6	47925
RPP40	6	4994966	5004297	48	9	51148
TNKS	8	9413424	9639856	716	16	52828
PSAP	10	73576055	73611126	113	17	48865
ANKRD29	18	21178890	21242849	72	15	42818
ATG4D	19	10654571	10664094	23	6	51297
CHCHD10	22	24108021	24110630	13	5	48750
CD8A	2	87011729	87035519	60	5	52245
FAIM3	1	207077731	207096592	22	4	42426
AMBN	4	71457973	71473005	49	12	45453

C4orf22	4	81256874	81884910	966	24	49457
TPCN1	12	113658855	113736390	118	5	50088
PRED58	21	46520728	46534873	33	6	49936
TRIM63	1	26377795	26394927	36	4	50196
JADE2	5	133860003	133918918	137	23	49900
LRRC6	8	133584320	133687838	115	11	46642
CRK	17	1323983	1366456	101	12	46665
BMF	15	40380091	40401093	30	7	46195
MTG1	10	135207598	135234811	59	6	45036
ERV3-1	7	64451187	64467121	40	6	50369
KNSTRN	15	40674922	40686447	31	5	52679
SSC5D	19	55999771	56030465	108	16	47847
SLAMF6	1	160454820	160493052	63	10	44572
ZMYND8	20	45837859	45985567	162	21	47445
CCDC81	11	86085778	86134151	158	25	47455
ITGAX	16	31366455	31394318	34	9	49256
PGPEP1	19	18451397	18480760	81	15	46724
ACPL2	3	140947568	141013748	217	21	47611
CARKD	13	111267881	111292340	94	7	50682
MCOLN2	1	85391268	85462796	211	16	52860
COL6A6	3	130279178	130396999	149	17	46707
STX16	20	57226328	57254582	49	8	49308
C17orf100	17	6554971	6556791	2	1	46500
TOM1L2	17	17746828	17875736	154	6	46281
CTH	1	70876901	70905534	67	14	50069
SEMG1	20	43835638	43838413	6	2	48389
STARD5	15	81601394	81616524	38	9	47886
SPATA5L1	15	45694529	45713617	22	3	49583
TIFAB	5	134779908	134788089	32	8	48564
STAT1	2	191829084	191885686	125	20	46888
HMG3	6	79910962	79944406	73	9	48013
ZZEF1	17	3907739	4046314	414	15	51922
ERI3	1	44686742	44820932	179	17	47391
ZNF490	19	12688775	12750912	94	5	45888
HCAR1	12	123104824	123215390	224	25	51143
SLC7A9	19	33321415	33360672	142	17	51202
CHD5	1	6161853	6240183	245	31	44345
CTD-3222D	19	16589878	16739015	259	16	49612
APOL6	22	36044442	36064456	30	3	42614
SLC12A2	5	127419458	127525380	147	11	49533
AGO4	1	36273773	36323491	33	4	41753
ACKR3	2	237476430	237491001	26	5	48864
NINL	20	25433341	25566153	250	19	47002
ARHGEF26	3	153838792	153975616	291	16	51217
RBM22	5	150070356	150080669	9	3	47540
CASC4	15	44580927	44707956	148	5	46376
PPAP2A	5	54720682	54830878	238	10	47275
EZR	6	159186773	159240444	192	14	47468
MRPS9	2	105654441	105716418	207	7	54245
OLFML3	1	114522063	114524876	5	3	41988
KRTAP1-5	17	39182278	39183454	5	3	39754

RPP14	3	58291974	58310422	63	7	50957
MYCT1	6	153019030	153045702	83	10	48533
MED31	17	6546635	6554954	36	6	53213
SCAPER	15	76640526	77197785	945	21	50598
AKAP8	19	15464196	15490609	33	6	45227
ALDH1A1	9	75515578	75695358	276	22	47255
ANGEL1	14	77253588	77292589	100	17	50512
PLCD1	3	38048987	38071253	70	11	44068
MAP3K8	10	30722866	30750762	41	5	47122
MPZL2	11	118124118	118135251	21	2	53221
CIDEA	18	12254318	12277594	69	14	49221
SLC25A3	12	98987369	98995946	14	6	47197
CNOT11	2	101869264	101886778	22	7	49539
MBTPS1	16	84087368	84150511	261	23	49585
KATNA1	6	149916009	149970108	94	3	47539
DCHS2	4	155153399	155412930	637	40	48968
C14orf132	14	96505661	96560417	196	18	51323
MMP17	12	132312938	132336328	86	14	46019
OBP2B	9	136080664	136084630	10	4	49667
METTL7A	12	51317255	51326300	10	4	44357
AP4B1	1	114437370	114447823	16	5	47587
TAF2	8	120743015	120845103	234	19	49135
ACAD10	12	112123857	112194903	53	4	43147
ARRDC2	19	18111941	18124911	30	6	47102
OR5D18	11	55587086	55588073	2	1	48910
MYO10	5	16665395	16936372	762	88	47946
ICAM2	17	62079954	62097994	7	3	44991
BAP1	3	52435029	52444366	4	1	50630
ZNF442	19	12460185	12476719	11	4	42074
TAS2R60	7	143140546	143141502	2	1	46259
RALGDS	9	135973107	136039301	151	22	48289
GPR114	16	57576333	57625593	133	14	46147
TMEM9B	11	8968841	8986558	46	6	49538
BRI3	7	97881691	97937162	114	7	51907
CHGA	14	93389425	93401638	39	7	49909
PCDHA3	5	140180783	140391929	326	16	48567
OR51T1	11	4903049	4904113	1	1	49605
USMG5	10	105148798	105156223	7	3	50274
ZC3H11A	1	203764782	203823252	145	10	52133
FBXL6	8	145579091	145583036	4	1	37851
PPP1R3G	6	5085720	5087455	3	1	51505
CCDC6	10	61548521	61666414	368	21	49881
FCGRT	19	50010073	50029590	37	6	46158
HTR3E	3	183814852	183824783	17	5	48095
ERVW-1	7	92097694	92107300	18	5	45966
KRTAP10-6	21	46011149	46012386	1	1	31383
MRPL48	11	73498361	73576178	236	16	51857
KLK7	19	51479729	51487355	25	5	36934
CREB3L3	19	4153598	4173051	37	7	36956
PCYT1A	3	195941093	196014828	165	15	51447
FAM53B	10	126307861	126432838	210	22	50976

ERVMER34	4	53588785	53617807	36	2	51029
TMX4	20	7957995	8000476	89	8	41245
COPB1	11	14464986	14521573	94	10	50060
ANKHD1	5	139781399	139929163	88	14	47456
ANKHD1-EI	5	139781493	139929154	88	14	47456
RHOQ	2	46768945	46810260	86	15	49433
RP11-1105	12	94671534	94676620	20	5	50430
NOL12	22	38077680	38170137	207	22	48438
PSPN	19	6375159	6379069	19	3	44230
OGDH	7	44646171	44748665	129	15	46367
C21orf37	21	18811208	18821503	18	3	46512
TRIOBP	22	38093011	38172563	175	18	47823
KRTAP1-3	17	39190142	39191107	4	1	32345
GABRA2	4	46250444	46477247	414	26	49586
BTG2	1	203274619	203278730	5	2	44719
ATP1A4	1	160121360	160156767	134	29	48238
RNLS	10	90033621	90344287	630	35	50635
IGF2BP2	3	185361527	185542844	241	25	48034
AQP4	18	24432002	24445782	34	8	46973
TMEM186	16	8874241	8891505	81	12	50820
MTHFD2L	4	74979891	75168816	163	10	45205
MRPL42	12	93861264	93897545	103	10	52055
CDK12	17	37617764	37721160	168	9	46908
MYL2	12	111348623	111358526	34	4	49725
PITPNM1	11	67259239	67273734	3	2	41032
ASIP	20	32782375	32857150	87	4	49325
MARK3	14	103851729	103970168	253	8	53735
CEL	9	135937365	135947248	2	1	44245
RNF31	14	24615892	24629870	15	7	46803
GBP7	1	89597434	89641723	74	8	49049
DPEP2	16	68021297	68034489	14	3	49031
RPLP0	12	120634489	120639038	6	2	45383
CNGA4	11	6255995	6265659	17	6	43385
PDIA4	7	148700154	148725733	58	4	44917
RP11-758M	8	75512010	75735548	470	36	48371
RPL17	18	47014851	47018906	10	3	53890
ARL8B	3	5163905	5222596	117	8	48208
CPT2	1	53662101	53679869	21	4	46650
CCSER1	4	91048686	92523064	3771	140	50790
RSRC1	3	157823644	158263519	1137	19	52849
MTX3	5	79275584	79287082	23	4	52251
PROCR	20	33759876	33765165	8	2	50607
BLOC1S3	19	45682003	45685059	4	1	52597
RUVBL2	19	49496705	49519252	58	5	46486
AKAP10	17	19807615	19881656	76	5	52579
FBXO45	3	196295482	196315930	37	6	48406
MIIP	1	12079523	12092102	19	4	47899
TARDBP	1	11072414	11085796	17	3	45575
MYO7B	2	128293378	128395304	264	24	48593
C4orf6	4	5526296	5529528	5	2	44773
ZYG11A	1	53308183	53360670	92	7	45652

FOXK1	7	4683388	4811074	295	37	44334
APTX	9	32972604	33025166	220	8	53246
GPR157	1	9160364	9189229	62	7	52167
ERVFRD-1	6	11102722	11111965	39	7	52767
SRR	17	2206677	2228554	28	6	48798
FAM149A	4	187025573	187093821	201	31	49589
DNAH100S	12	124410971	124419531	14	3	46536
SLC13A1	7	122753585	122840040	172	20	49449
JAM3	11	133938820	134021896	201	12	50032
PIP4K2C	12	57984957	57997198	11	4	47585
CMTM6	3	32522804	32544900	42	10	49960
METTL21A	2	208445355	208490652	56	6	48369
ATP6V0E2	7	149570057	149577784	30	4	51584
GIT1	17	27900487	27921072	23	6	45763
KIF21A	12	39687030	39837192	210	16	49136
DKK1	10	54074056	54077802	7	2	49082
STMN3	20	62271061	62284780	28	6	45206
ALDH1A3	15	101417919	101456831	75	11	43742
HIST1H4F	6	26240561	26240976	4	2	48002
EIF3B	7	2393721	2420380	64	6	47460
FRMD4A	10	13685706	14504141	2987	221	49856
LTBR	12	6484211	6500733	25	7	37461
NPR1	1	153651113	153666468	12	3	48828
NUDT15	13	48611703	48621358	22	7	48983
GCDH	19	13001840	13025021	26	4	46016
ACMSD	2	135596117	135659604	91	6	50364
SMCO4	11	93211638	93276674	208	20	51933
BAX	19	49458072	49465055	18	4	38876
RPL22	1	6241329	6269449	60	10	39264
ACTRT3	3	169484709	169487683	9	2	46095
YPEL1	22	22051833	22090123	111	20	47731
SHISA2	13	26618735	26625169	21	7	44103
FAM154B	15	82555151	82577271	47	11	50069
FOLR2	11	71927645	71932994	7	3	42740
FAM24A	10	124670217	124672627	5	2	52837
TMEM135	11	86748886	87034800	1271	35	52604
TRAK1	3	42055294	42267381	515	32	51524
RNF217	6	125283691	125413779	244	39	47417
EVI2A	17	29644578	29648902	7	1	47559
TBC1D13	9	131549483	131572711	59	5	44966
PRKAA2	1	57110995	57181008	216	17	48418
TXN	9	113006091	113018920	44	15	46737
RADIL	7	4836686	4923350	345	24	44007
ZNF529	19	37025676	37096178	134	14	50895
ALDH3B1	11	67776048	67796744	45	5	50482
UVRAG	11	75526212	75854239	436	15	44527
ZSWIM5	1	45482071	45771881	447	18	50662
EMILIN3	20	39988606	39995467	18	5	47726
RP11-248J2	10	97709725	97744785	83	15	47990
SLC35A5	3	112280556	112304424	59	6	47589
BHLHA9	17	1173853	1174754	1	1	39581

ZNF800	7	126986844	127071978	250	22	51207
RPL7	8	74202506	74208024	14	6	48019
RNASE6	14	21249210	21250626	3	2	43346
EGR3	8	22545172	22550815	6	3	45122
ABCA13	7	48211055	48687092	1651	57	51693
PSG6	19	43406231	43423715	21	3	32010
ZNF665	19	53662466	53696639	82	9	44538
KDM5A	12	389295	498620	220	11	47132
CEACAM21	19	42055886	42093197	75	8	44960
MROH7-TT	1	55107459	55207981	355	32	49462
KRTAP10-2	21	45970240	45971388	5	1	47376
TMEM110-	3	52867137	52931578	118	9	51100
NAGA	22	42454358	42466846	18	4	49585
AP002348.	11	120382511	120385732	6	3	36459
SQSTM1	5	179233388	179265078	86	18	46588
MFSD7	4	675618	683230	7	1	48573
C15orf53	15	38988799	38992239	21	4	51015
SPDYE4	17	8656424	8661877	11	3	44346
B3GAT1	11	134248398	134281812	115	11	50382
ESRRB	14	76776957	76968178	640	57	50074
TCEANC2	1	54519260	54578192	106	11	42356
MIEF1	22	39895437	39914137	25	5	46545
AL033381.:	6	1080164	1105181	67	9	49203
C21orf140	21	35772615	35773370	1	1	39768
UNC5D	8	35092975	35654068	755	33	50963
DCAKD	17	43100708	43138473	88	11	52042
LMO7	13	76194570	76434004	587	45	49480
TYRP1	9	12685439	12710290	49	5	47006
CR1L	1	207818458	207911761	311	18	51934
B3GALT2	1	193148175	193155784	8	2	51477
KIAA0391	14	35591755	35786680	513	20	51708
SLC6A4	17	28521337	28563020	59	9	46385
GLRX	5	95087023	95158709	150	24	48661
KRTAP1-4	17	39185949	39186356	6	2	38502
TMEM139	7	142977050	142985141	2	1	34955
PHOSPHO1	17	47300724	47308128	19	6	47972
RALB	2	120997640	121052289	134	7	51398
ZNF226	19	44669226	44682534	6	2	45580
ZBTB34	9	129622944	129648157	24	7	43995
SFSWAP	12	132195626	132284282	162	17	50196
MINOS1-NI	1	19923473	19984549	151	23	48916
PCNT	21	47744036	47865682	412	22	49707
PDE4A	19	10527449	10580305	82	10	50755
SEL1L3	4	25749055	25865382	233	40	49351
GUCA2A	1	42628362	42630389	2	1	44522
HBZ	16	202686	204502	1	1	46918
SF3A1	22	30727977	30752936	73	11	51923
THOC3	5	175344876	175461683	5	2	40279
PRRT3	3	9987226	9994078	10	4	44884
GRHPR	9	37422663	37436987	22	5	47254
MAP2	2	210288782	210598842	611	22	48464

SUOX	12	56390964	56400425	8	3	48762
PGLYRP1	19	46522411	46526323	5	1	43235
SCN4A	17	62015914	62050278	47	11	43397
AC011755.	2	133874577	133876625	6	2	51533
SLC39A8	4	103172198	103352415	447	35	51355
PDCD5	19	33071974	33078358	14	5	47725
ADCY9	16	4003388	4166186	541	58	46669
SREBF1	17	17713713	17740325	33	4	43799
CHIT1	1	203181955	203242769	138	23	47342
CD248	11	66081958	66084515	2	1	39911
PAK6	15	40509629	40569688	128	29	44124
RCHY1	4	76404247	76439974	80	11	49500
OXSM	3	25824408	25836025	11	3	43652
ARID3B	15	74833518	74890472	68	6	44929
ZNF425	7	148799876	148823438	45	5	50202
CA6	1	9005926	9035151	95	19	46136
RNF133	7	122337766	122339210	1	1	51579
FUT9	6	96463860	96663488	622	37	50606
C6orf223	6	43968317	43973695	15	3	45559
TNFSF12	17	7452208	7464925	30	8	48118
TNFSF12-TI	17	7452416	7464918	30	8	48118
AL590483.	1	244227632	244231211	4	2	50915
OR52B4	11	4388493	4389616	2	1	43477
SAE1	19	47616531	47713886	68	10	44574
TMEM251	14	93651296	93653434	2	1	50398
CCER1	12	91299399	91348953	91	16	49002
SLC2A6	9	136336217	136344259	24	8	43699
BTN3A1	6	26402465	26415444	54	6	52809
GTF2F1	19	6379580	6393992	41	5	44580
CCDC59	12	82617460	82752584	247	21	49270
PRPF6	20	62612488	62664453	83	8	48755
POLR2L	11	837356	842545	29	2	49248
GADD45B	19	2476120	2478257	4	2	35201
GYS2	12	21689123	21757781	242	17	48867
POSTN	13	38136720	38172981	80	11	51100
GOLGA7B	10	99609996	99631337	37	6	47795
CSRP3	11	19203578	19232120	90	19	46330
ETFB	19	51848423	51869672	82	9	45860
ORC2	2	201773696	201828403	59	8	45972
ENTPD2	9	139942550	139948497	14	4	37011
ESRRA	11	64073044	64084215	7	3	48832
MUC12	7	100612904	100662230	81	12	51386
ANKLE2	12	133302254	133338474	119	20	48363
KRT20	17	39032193	39041479	28	7	47237
MON2	12	62860597	62991363	301	20	52415
CEACAM16	19	45202421	45213986	29	9	40304
B3GNT1	11	66112843	66115163	1	1	47999
CENPH	5	68485375	68506184	37	4	50517
FES	15	91426925	91439006	27	5	43942
SIT1	9	35649292	35650937	1	1	45518
C12orf75	12	105629068	105789875	496	35	52698

CUEDC1	17	55938604	56032684	221	35	45344
ZNF831	20	57766075	57834168	139	24	49048
ZBTB46	20	62375019	62462597	336	17	49778
CTC-429P9	19	16688453	16770926	149	18	48010
SSBP1	7	141438121	141487722	81	2	53662
ACCSL	11	44069531	44081527	21	7	50412
WFIKKN1	16	679239	684116	13	3	45445
PPP5C	19	46850251	46896238	101	14	48683
MTRF1L	6	153308497	153323820	44	7	53563
AXL	19	41725108	41767671	76	12	47860
SF3B14	2	24290454	24299313	40	7	49937
CWH43	4	48988264	49064098	90	5	44120
ING2	4	184426147	184432249	14	6	46235
OR2A25	7	143771275	143772288	3	2	50351
PRSS42	3	46871032	46875585	8	2	49328
RFTN1	3	16355081	16555533	578	58	50865
LRG1	19	4536421	4540486	4	2	36369
NQO2	6	2988221	3019996	182	20	50800
STK24	13	99102455	99230194	311	21	50913
RPL29	3	52027616	52029958	1	1	31352
KRT82	12	52787715	52800139	45	9	47372
GTPBP2	6	43573053	43596899	29	5	44201
STARD13	13	33677272	33924767	686	52	50992
CCDC149	4	24807739	24981826	468	35	49785
ERMAP	1	43282795	43310660	41	9	50110
ARHGDIG	16	318726	333003	29	10	40489
C10orf12	10	98741041	98745582	3	2	38016
PDE9A	21	44073746	44195619	438	37	50845
CDK2	12	56360553	56366568	6	3	48252
RPS5	19	58897767	58906173	21	3	49883
ROPN1B	3	125687987	125702297	22	7	49896
AC011484.	19	46997765	46999755	3	2	45192
TMEM128	4	4237269	4249950	85	3	51933
AEBP1	7	44143960	44154161	26	8	47197
SMCR8	17	18218624	18226517	32	5	53619
KCNC1	11	17756359	17804602	107	16	46553
MAST1	19	12944765	12985765	61	5	50283
ZC3H7B	22	41697526	41756151	72	7	46999
PEX3	6	143771944	143811147	63	6	51443
WDR41	5	76721795	76916436	559	27	49281
KIAA0391	14	35591052	35743271	392	23	51979
FABP3	1	31838472	31849697	18	6	41837
HSF2BP	21	44949072	45079374	188	12	49654
ARL6IP5	3	69134095	69155217	50	8	48579
OR5B17	11	58125597	58126542	2	1	54885
ANAPC5	12	121746048	121837699	210	27	40450
ZNF774	15	90895477	90909324	34	5	48633
RFNG	17	80005778	80009707	14	2	43993
DUSP26	8	33448856	33457624	19	4	43100
GSTCD	4	106629935	106768885	288	10	49419
LRRC8A	9	131644391	131680318	59	7	42017

PLRG1	4	155456158	155471587	44	3	52931
BCL2A1	15	80253231	80263788	15	3	50557
PDCD6	5	271736	353971	194	14	50465
FOXJ3	1	42642210	42801548	230	12	51499
CRYZ	1	75171170	75199092	67	13	44343
EXOC8	1	231468480	231473598	4	1	48467
C15orf43	15	45248900	45271427	57	5	40484
FAHD2B	2	97749320	97760619	7	2	40996
SLC44A3	1	95285898	95360802	250	43	50096
LPIN3	20	39969560	39989222	31	9	46087
FRRS1	1	100174259	100232187	210	8	48641
TAGLN	11	117070037	117075498	19	5	47775
NARFL	16	779753	791329	21	3	36870
NSD1	5	176560026	176727216	343	15	45315
FKBP6	7	72742167	72772634	52	4	45020
TAGLN3	3	111717511	111732734	78	17	49809
HSD17B1	17	40701232	40707231	12	3	49955
MLK4	1	233463514	233520894	187	19	52542
CD53	1	111415775	111442550	74	9	48165
SERPINA9	14	94929054	94946026	72	15	49072
ZNF223	19	44555520	44572144	29	5	50869
MLF2	12	6857170	6876641	49	8	48689
FOXD1	5	72740654	72744352	3	2	52445
FLT1	13	28874489	29069265	386	29	48620
AATF	17	35306175	35414171	108	7	44586
GUCY2D	17	7905912	7923657	29	7	49274
MLH3	14	75480467	75518235	40	3	48394
SEC23B	20	18488137	18542059	166	13	47915
UPB1	22	24863206	24924358	99	12	46334
FAM91A1	8	124780696	124827692	94	10	44967
HADHA	2	26413504	26467594	91	3	49232
BMP10	2	69092613	69098649	10	3	48600
PKP2	12	32943679	33049774	313	25	47749
GRIK4	11	120382468	120859613	1201	105	48007
GPRC6A	6	117113248	117150200	72	11	50936
OR52W1	11	6220376	6221489	4	2	45191
SEPHS2	16	30454952	30457502	2	1	36639
LARP4B	10	855484	977564	250	14	51538
SP8	7	20823906	20826505	2	1	41004
TAF1B	2	9983483	10074545	388	17	51237
KIR3DL2	19	55361898	55378662	33	4	43023
CHRND	2	233390703	233401377	26	5	49898
AQP6	12	50360977	50370922	8	3	40792
C1orf147	1	206664449	206671061	19	5	44476
KCNMA1	10	78629359	79398353	1861	139	49078
C12orf79	12	92378756	92536690	366	53	48335
FAM83A	8	124191200	124222314	68	8	50266
LMOD1	1	201865580	201915715	105	18	49051
ATP5L	11	118271869	118302211	46	7	49310
ADAT2	6	143743969	143771810	75	3	54234
SETD7	4	140417095	140527853	258	37	49208

FAM101B	17	289769	295730	15	4	45829
COL21A1	6	55921388	56258892	1249	50	51499
APOL3	22	36536372	36562225	77	12	49899
RUFY2	10	70100864	70167051	115	7	50689
RP11-1220	7	141811549	141922124	299	35	48096
CIB4	2	26804070	26864236	124	15	49394
HLA-DPB1	6	33043703	33054978	162	12	43379
PAICS	4	57301907	57327534	55	7	47786
DLL1	6	170591294	170599561	12	4	45563
NDUFS5	1	39491990	39500308	24	4	49409
H2AFZ	4	100869243	100871545	5	2	50907
HK1	10	71029740	71161638	417	50	47103
RDH16	12	57345219	57353158	16	4	46018
CCDC64B	16	3077683	3086927	23	4	48798
PPA1	10	71962586	71993667	109	15	46752
PIP4K2B	17	36921942	36956379	64	11	50724
DUSP14	17	35849937	35873603	51	9	51141
RP11-17M:	18	74207477	74210045	3	2	40638
GZMK	5	54320081	54330398	21	6	46011
AP2A2	11	924894	1012239	254	10	51101
GIMAP8	7	150147718	150176480	31	5	51237
CNNM1	10	101088856	101154087	128	20	46494
MVK	12	110011060	110035067	61	11	53673
OR56B1	11	5757681	5758768	5	3	43999
PTGFRN	1	117452679	117532980	207	22	49038
RP11-297N	8	11655437	11660077	29	8	51364
AJAP1	1	4714792	4852594	614	74	49005
SSH3	11	67070919	67080078	6	4	39466
CEP170B	14	105331617	105363107	90	9	44173
C9orf141	9	139863695	139866442	17	2	46555
KCNIP3	2	95963052	96051825	81	7	47486
CWC22	2	180809603	180871840	145	12	51828
TERT	5	1253262	1295184	57	17	41985
WDR27	6	169857307	170102159	652	24	44876
MAGOHB	12	10758612	10766222	25	4	47440
KRT84	12	52771596	52779436	57	4	47555
GCSAM	3	111839688	111852152	30	7	49659
GPATCH2L	14	76618259	76720685	337	22	47955
COL6A3	2	238232646	238323018	197	30	48299
SLC26A10	12	58013310	58019934	4	2	45755
FBLN1	22	45898118	45997015	337	45	47994
SNRPA1	15	101821715	101835487	32	2	51934
DPP6	7	153584182	154685995	2950	247	47320
SH2D2A	1	156776035	156786654	15	4	45972
ZNF567	19	37178514	37218603	80	7	49979
TADA2A	17	35766965	35839835	171	16	51536
PHACTR2	6	143857982	144152322	850	46	51449
DDX60	4	169137444	169239958	296	17	51489
CERK	22	47080308	47134158	174	30	46207
LINC01124	2	171568961	171571077	4	2	42663
RPS6KA1	1	26856252	26901521	86	10	51567

CRX	19	48322703	48346587	143	16	50354
RP11-190A	1	159827690	159842843	50	6	47877
TENM3	4	183065140	183724177	2060	180	48741
SNCG	10	88718375	88723017	17	3	51474
CTXN1	19	7989372	7991051	1	1	53107
NPCDR1	3	59957215	59957583	3	1	50504
FGFR1OP	6	167412670	167466201	246	10	41417
DTD2	14	31915242	31926716	18	3	52495
TPPP3	16	67423712	67427438	9	3	45636
ABT1	6	26597180	26600278	13	4	51513
MARCH6	5	10353815	10440500	62	3	37185
PGM3	6	83870869	83903655	40	7	45006
LIME1	20	62366815	62370456	8	2	47414
CLDN17	21	31538241	31538971	1	1	47999
ARF6	14	50359810	50361490	2	1	52687
RPL13	16	89627065	89630950	16	2	52738
ADAMTS17	15	100511794	100882210	1559	110	48463
MRPL19	2	75873909	75917977	109	12	48443
FAM171A2	17	42430583	42441243	10	4	43529
PGPEP1L	15	99511459	99551024	131	15	45990
FRMD1	6	168456425	168482237	99	13	48450
TRIP13	5	892758	919472	49	3	51613
TRIM35	8	27142404	27168836	42	8	49025
SOX9	17	70117161	70122561	7	2	45119
PTAR1	9	72324438	72374875	81	12	48465
C8B	1	57394883	57431813	110	19	50494
MMEL1	1	2522078	2564481	131	6	47302
TMEM200E	1	29445940	29450447	9	3	45134
SAP30L	5	153825517	153840614	25	13	49409
LRRC63	13	46786083	46851501	203	17	47987
MT1A	16	56672578	56673999	8	2	48365
TNRC6C	17	76000249	76104916	146	15	49389
C19orf44	19	16607122	16632163	58	7	48830
FGD3	9	95709733	95798518	231	26	51285
ZNF277	7	111846643	111983151	221	18	49621
DNAJC5	20	62526518	62567384	130	13	48026
RGS2	1	192778169	192781403	3	1	48977
IRX4	5	1877541	1887350	43	8	50980
TRANK1	3	36868311	36986548	231	20	50406
KRTAP13-1	21	31768392	31769136	1	1	56048
RNFT1	17	58029601	58042122	19	4	51693
PSMC1	14	90722839	90738968	47	2	52964
SACM1L	3	45730548	45786916	177	9	52653
CHPT1	12	102090725	102137918	97	16	48528
SIL1	5	138282409	138629246	368	18	48892
FAM84B	8	127564687	127570638	3	2	47092
MYO1B	2	192109911	192290115	224	8	48364
TMEM98	17	31254928	31272124	44	7	51153
CMTR2	16	71315292	71323618	18	4	50945
KLHL22	22	20783528	20850170	132	11	46393
CCDC177	14	70037483	70038032	1	1	49398

MARK1	1	220701568	220837803	208	14	45926
FAM220A	7	6369040	6388612	52	11	44397
RANBP17	5	170288874	170727019	721	17	50611
TROAP	12	49717019	49725514	11	3	44669
ZNF263	16	3313743	3351401	27	2	51542
AL646016.:	1	240629183	240643504	40	6	49524
DRD3	3	113847499	113918254	181	23	48758
SH3RF2	5	145316142	145461354	280	8	51596
CNTN3	3	74311719	74570291	573	57	48890
TMCO4	1	20008706	20126438	323	37	48444
C20orf96	20	251504	271390	105	13	49163
POM121	7	72349936	72421979	25	9	38121
WNT2	7	116916685	116963343	65	15	48359
CTD-2014B	14	66424015	66471241	110	21	49715
S100A14	1	153586731	153589462	6	1	46476
BRF2	8	37700786	37707422	6	2	47596
GPR111	6	47624172	47665533	177	5	51805
CCL3	17	34415602	34417515	5	1	56012
COL6A1	21	47401651	47424964	78	14	48450
WNT10A	2	219745085	219764303	13	2	44781
DKK3	11	11984653	12031316	163	41	48066
SBK1	16	28303840	28335170	25	6	38854
PCDH17	13	58205944	58303445	199	27	51350
CARHSP1	16	8946799	8962866	78	13	49615
TTLL7	1	84330711	84464833	305	12	48735
STK35	20	2082257	2157684	190	18	45840
ENPP3	6	131949582	132068553	197	20	42930
SAR1B	5	133936834	133984961	28	9	48652
DPY19L3	19	32896449	32976801	150	18	48877
EFTUD1	15	82422571	82555104	345	27	49583
GPR4	19	46093022	46105466	19	3	44824
CYP3A43	7	99425636	99463718	76	7	46398
NBEAL2	3	47021173	47051193	30	4	48621
PCDHAC2	5	140345820	140391936	43	8	47609
VDAC2	10	76969912	76991206	36	8	48546
OR6N1	1	158735466	158736492	7	2	44181
SLC2A5	1	9095166	9148537	154	20	50546
GBP5	1	89724633	89738544	15	4	47724
TMEM190	19	55888204	55889612	1	1	33854
HOXC9	12	54388679	54397121	8	2	49823
HOMER3	19	19040010	19052070	19	6	38512
MOS	8	57025501	57026541	2	1	50252
CNGB1	16	57917503	58005020	232	43	47378
OR4D2	17	56247017	56247940	4	1	48446
TFAP2B	6	50786436	50815326	64	11	51031
PRR12	19	50094900	50129696	77	8	44066
LAD1	1	201342372	201368736	89	16	42722
CASP6	4	110609785	110624739	24	6	48577
DEFA6	8	6782215	6783598	8	4	43303
RP11-385D	17	15474805	15554967	82	13	45780
ABHD6	3	58223233	58281420	191	17	51387

EGFL7	9	139553308	139567130	26	4	36990
MANBAL	20	35918041	35945663	36	7	43709
NALCN	13	101706130	102068843	1131	75	48354
C7orf43	7	99752043	99756338	3	2	51276
SMO	7	128828713	128853386	64	10	49714
ATG3	3	112251356	112280893	78	6	48438
ERBB2	17	37844167	37886679	40	7	42367
TMEM214	2	27255778	27264563	5	2	47376
VTI1A	10	114206756	114578503	619	60	45186

z (defined by GRCh37 reference genome locations). Bonferroni threshold of significance for 18,671 genes was

<i>ZSTAT</i>	<i>P</i>	<i>HGNC symbol</i>
4.8131	7.4294e-07	ENSG00000128573
4.1838	1.4333e-05	ENSG00000271303
4.1725	1.5066e-05	ENSG00000117479
4.0119	3.0117e-05	ENSG00000111261
3.8267	6.4928e-05	ENSG00000133275
3.715	0.00010158	ENSG00000154721
3.7016	0.00010711	ENSG00000270299
3.6957	0.00010963	ENSG00000272514
3.6936	0.00011054	ENSG00000164543
3.6896	0.00011231	ENSG00000213204
3.6422	0.00013514	ENSG00000106603
3.6417	0.00013541	ENSG00000127325
3.6326	0.00014027	ENSG00000170180
3.5767	0.00017399	ENSG00000169641
3.5635	0.00018294	ENSG00000162783
3.5229	0.00021343	ENSG00000176571
3.4971	0.00023516	ENSG00000248835
3.4804	0.00025038	ENSG00000128596
3.467	0.00026315	ENSG00000266086
3.4269	0.00030531	ENSG00000106605
3.4234	0.00030926	ENSG00000057468
3.3767	0.00036677	ENSG00000189079
3.3354	0.00042595	ENSG00000136451
3.3334	0.00042901	ENSG00000203871
3.2883	0.00050401	ENSG00000171105
3.2806	0.00051792	ENSG00000128513
-3.2627	0.99945	ENSG00000206344
-3.2616	0.99945	ENSG00000204644
3.2512	0.00057454	ENSG00000139218
3.2235	0.00063314	ENSG00000229729
3.2159	0.00065018	ENSG00000154727
3.2155	0.00065105	ENSG00000198663
3.2137	0.00065518	ENSG00000268098
3.2053	0.0006745	ENSG00000163320
3.1936	0.00070258	ENSG00000269590
3.1638	0.00077873	ENSG00000185917
3.1514	0.00081232	ENSG00000154723
3.1474	0.00082359	ENSG00000259164
-3.119	0.99909	ENSG00000183137
3.1083	0.00094084	ENSG00000179021
3.0929	0.00099096	ENSG00000112246
3.0826	0.001026	ENSG00000267884
-3.0781	0.99896	ENSG00000130208
3.0713	0.0010657	ENSG00000156239
3.0475	0.0011538	ENSG00000168994
3.0437	0.0011683	ENSG00000087269
3.039	0.0011868	ENSG00000112146

3.0348	0.0012035	ENSG00000168502
3.0198	0.0012647	ENSG00000175105
3.0186	0.0012696	ENSG00000165548
3.0112	0.0013012	ENSG00000139537
3.0026	0.0013386	ENSG00000272822
2.9905	0.0013927	ENSG00000255863
2.9893	0.0013982	ENSG00000143476
2.9889	0.0013999	ENSG00000006611
2.9879	0.0014043	ENSG00000267496
-2.9861	0.99859	ENSG00000204681
2.9861	0.0014128	ENSG00000125388
2.9859	0.0014136	ENSG00000117475
2.9785	0.0014484	ENSG00000132004
-2.9682	0.9985	ENSG00000102924
2.9498	0.0015897	ENSG00000123636
2.9376	0.0016538	ENSG00000135334
2.9203	0.0017483	ENSG00000169857
-2.9125	0.99821	ENSG00000242114
2.9005	0.001863	ENSG00000152332
2.8987	0.0018735	ENSG00000134287
2.8805	0.0019854	ENSG00000146410
2.8784	0.0019984	ENSG00000170775
2.8759	0.0020141	ENSG00000003989
2.8721	0.0020389	ENSG00000268870
2.8622	0.0021038	ENSG00000143493
-2.8589	0.99787	ENSG00000204538
2.8556	0.002148	ENSG00000135631
2.8542	0.002157	ENSG00000169764
2.8532	0.0021641	ENSG00000132704
2.8504	0.0021831	ENSG00000213626
2.8481	0.0021992	ENSG00000178562
2.8463	0.0022113	ENSG00000121966
2.8347	0.0022931	ENSG00000143156
2.8277	0.0023443	ENSG00000111832
2.8058	0.0025093	ENSG00000114638
2.8055	0.0025117	ENSG00000108932
-2.8048	0.99748	ENSG00000099800
2.8043	0.002521	ENSG00000134285
2.8024	0.0025364	ENSG00000167562
2.8013	0.0025446	ENSG00000140986
2.797	0.0025787	ENSG00000154719
2.7949	0.0025954	ENSG00000082293
-2.7944	0.9974	ENSG00000273395
2.7899	0.0026364	ENSG00000226524
2.7886	0.0026465	ENSG00000182107
2.7885	0.0026475	ENSG00000162598
2.7857	0.0026703	ENSG00000139151
2.7832	0.0026912	ENSG00000136158
-2.7815	0.99729	ENSG00000169217
-2.7788	0.99727	ENSG00000167965
2.7782	0.0027332	ENSG00000100427

2.7775	0.0027388	ENSG00000112144
2.7722	0.0027843	ENSG00000163848
2.7715	0.00279	ENSG00000162188
2.7712	0.0027926	ENSG00000160703
2.7704	0.0027991	ENSG00000154007
2.7662	0.0028356	ENSG00000186847
2.7652	0.0028447	ENSG00000140543
-2.765	0.99715	ENSG00000155849
2.7622	0.0028703	ENSG00000204347
2.756	0.0029259	ENSG00000167207
2.7534	0.0029485	ENSG00000148704
2.7534	0.0029487	ENSG00000117477
-2.751	0.99703	ENSG00000106591
2.7489	0.0029896	ENSG00000006555
2.7452	0.0030233	ENSG00000113319
2.731	0.0031567	ENSG00000180855
2.7307	0.0031602	ENSG00000225950
-2.7266	0.9968	ENSG00000212998
2.7231	0.0032335	ENSG00000137168
2.7187	0.0032769	ENSG00000131558
2.7176	0.0032882	ENSG00000227868
-2.7153	0.99669	ENSG00000144182
2.7112	0.0033522	ENSG00000179532
2.7104	0.0033601	ENSG00000169484
-2.704	0.99657	ENSG00000007080
2.7035	0.0034311	ENSG00000254402
2.6959	0.0035102	ENSG00000137955
2.6953	0.0035167	ENSG00000111911
2.6931	0.0035395	ENSG00000079950
2.6911	0.0035612	ENSG00000196337
2.691	0.0035619	ENSG00000171403
-2.6833	0.99635	ENSG00000094880
-2.6831	0.99635	ENSG00000128266
2.683	0.003648	ENSG00000053438
2.6693	0.003801	ENSG00000260861
2.6679	0.0038163	ENSG00000092529
2.6668	0.0038284	ENSG00000175564
-2.6654	0.99616	ENSG00000134294
2.66	0.0039065	ENSG00000128283
2.6567	0.003946	ENSG00000227164
2.656	0.0039537	ENSG00000145216
2.6548	0.0039676	ENSG00000152578
-2.6494	0.99597	ENSG00000141469
2.6364	0.0041897	ENSG00000198862
2.6362	0.0041922	ENSG00000187164
2.6325	0.004238	ENSG00000182481
-2.6321	0.99576	ENSG00000171596
2.6305	0.0042635	ENSG00000101307
2.6298	0.0042716	ENSG00000041880
2.6275	0.0043001	ENSG00000188133
2.6269	0.0043087	ENSG00000126337

2.6196	0.0044016	ENSG00000162398
2.618	0.0044226	ENSG00000186591
2.6142	0.0044712	ENSG00000181929
-2.6137	0.99552	ENSG00000079332
2.613	0.004488	ENSG00000248672
2.613	0.004488	ENSG00000054219
-2.612	0.9955	ENSG00000164932
-2.6114	0.99549	ENSG00000218537
2.6093	0.004536	ENSG00000186665
2.6073	0.0045632	ENSG00000131067
-2.6064	0.99542	ENSG00000198000
2.604	0.0046069	ENSG00000198954
2.6035	0.004614	ENSG00000228474
2.6	0.0046608	ENSG00000137216
2.5986	0.0046801	ENSG00000179546
2.5924	0.0047648	ENSG00000197933
2.588	0.004827	ENSG00000154162
-2.5851	0.99513	ENSG00000203972
2.5814	0.0049197	ENSG00000197376
2.5813	0.0049213	ENSG00000125900
2.5769	0.0049841	ENSG00000169884
-2.5762	0.99501	ENSG00000154760
2.5716	0.0050615	ENSG00000250361
2.5618	0.0052061	ENSG00000148053
-2.5593	0.99476	ENSG00000162735
-2.5583	0.99474	ENSG00000172724
2.5522	0.0053521	ENSG00000186522
2.5502	0.0053834	ENSG00000198142
2.5492	0.0053984	ENSG00000160188
2.5378	0.0055784	ENSG00000066651
-2.5375	0.99442	ENSG00000204361
2.5345	0.0056309	ENSG00000130270
2.5324	0.0056642	ENSG00000151322
2.5315	0.0056788	ENSG00000171823
2.5301	0.0057012	ENSG00000170209
2.5292	0.0057161	ENSG00000132031
2.5289	0.0057214	ENSG00000159479
2.5281	0.0057338	ENSG00000196655
2.5277	0.0057412	ENSG00000176225
-2.5248	0.99421	ENSG00000139266
2.5231	0.0058167	ENSG00000184863
2.5229	0.0058189	ENSG00000141337
2.5229	0.0058194	ENSG00000197324
2.5224	0.0058274	ENSG00000071242
2.5224	0.0058274	ENSG00000069482
2.5211	0.005849	ENSG00000163814
2.5169	0.0059199	ENSG00000138698
2.5149	0.0059537	ENSG00000145283
2.5145	0.0059597	ENSG00000158321
-2.5141	0.99403	ENSG00000081479
2.5138	0.0059716	ENSG00000165716

2.5104	0.0060295	ENSG00000103540
2.51	0.0060366	ENSG00000140830
-2.5093	0.99395	ENSG00000117481
2.5076	0.0060777	ENSG00000010270
2.507	0.0060874	ENSG00000203730
-2.5016	0.99382	ENSG00000162144
-2.4982	0.99376	ENSG00000106511
2.4972	0.0062594	ENSG00000166436
-2.4944	0.99369	ENSG00000184207
2.491	0.0063684	ENSG00000131126
2.4906	0.006376	ENSG00000165732
-2.4901	0.99361	ENSG00000168348
2.4869	0.0064432	ENSG00000257008
2.4858	0.0064633	ENSG00000124762
2.4844	0.0064881	ENSG00000185551
2.4784	0.0065992	ENSG00000269563
2.4758	0.0066473	ENSG00000185940
2.4739	0.0066819	ENSG00000168301
2.4698	0.0067597	ENSG00000039537
2.4689	0.0067757	ENSG00000166887
2.4662	0.0068272	ENSG00000144040
2.4652	0.0068476	ENSG00000148655
2.4651	0.0068488	ENSG00000171703
-2.4648	0.99314	ENSG00000178750
-2.4615	0.99308	ENSG00000116785
-2.4601	0.99305	ENSG00000106536
-2.4597	0.99305	ENSG00000171806
2.4582	0.0069812	ENSG00000268852
2.4582	0.0069815	ENSG00000133401
2.4544	0.0070563	ENSG00000163531
2.4536	0.0070711	ENSG00000106069
2.4529	0.0070848	ENSG00000171928
2.4527	0.0070887	ENSG00000261210
2.4516	0.0071119	ENSG00000155903
-2.4503	0.99286	ENSG00000176909
2.4477	0.0071878	ENSG00000112320
2.4475	0.007192	ENSG00000135926
2.4428	0.0072866	ENSG00000179284
2.4405	0.0073343	ENSG00000116882
2.4386	0.0073722	ENSG00000157851
2.4364	0.0074181	ENSG00000185053
-2.4235	0.99231	ENSG00000101134
-2.4233	0.99231	ENSG00000164930
2.4219	0.0077192	ENSG00000214013
-2.4202	0.99224	ENSG00000112293
2.4199	0.0077632	ENSG00000251209
2.4196	0.0077685	ENSG00000153246
2.4169	0.0078262	ENSG00000204752
2.4142	0.0078853	ENSG00000260362
2.4121	0.0079305	ENSG00000114993
2.412	0.0079335	ENSG00000101460

2.4114	0.0079465	ENSG00000188992
2.4107	0.0079617	ENSG00000198523
2.4103	0.0079707	ENSG00000105583
2.4099	0.0079789	ENSG00000114127
2.4098	0.0079808	ENSG00000189377
2.4098	0.0079816	ENSG00000163288
2.4063	0.0080567	ENSG00000186166
2.4059	0.0080667	ENSG00000164796
-2.4048	0.99191	ENSG00000120094
2.4047	0.008092	ENSG00000130725
2.4044	0.0081003	ENSG00000088888
2.403	0.0081311	ENSG00000101489
2.4025	0.0081425	ENSG00000170959
-2.4001	0.9918	ENSG00000204421
2.3962	0.0082823	ENSG00000078725
2.3945	0.0083206	ENSG00000156381
2.3928	0.0083607	ENSG00000137691
2.3914	0.0083932	ENSG00000083642
2.3907	0.0084092	ENSG00000100379
-2.3892	0.99156	ENSG00000100218
2.3871	0.0084905	ENSG00000139890
-2.3813	0.99137	ENSG00000265096
2.3805	0.008645	ENSG00000079435
2.3793	0.0086726	ENSG00000162437
2.3764	0.0087412	ENSG00000168785
2.3761	0.0087495	ENSG00000140988
2.376	0.0087499	ENSG00000100528
2.3744	0.0087888	ENSG00000147588
2.373	0.008823	ENSG00000267893
2.3723	0.008838	ENSG00000065717
2.3683	0.0089341	ENSG00000132434
2.3662	0.008985	ENSG00000106066
2.3646	0.0090244	ENSG00000158850
2.3645	0.0090272	ENSG00000137161
2.3642	0.0090335	ENSG00000268635
2.3641	0.0090363	ENSG00000006747
-2.3614	0.9909	ENSG00000185674
2.3575	0.0091999	ENSG00000173210
2.3564	0.0092255	ENSG00000198783
-2.3555	0.99075	ENSG00000182584
2.3551	0.0092582	ENSG00000088930
2.3551	0.0092596	ENSG00000133636
-2.3547	0.99073	ENSG00000184613
-2.3543	0.99072	ENSG00000179165
2.3538	0.0092908	ENSG00000100532
2.3522	0.0093315	ENSG00000137812
2.3517	0.0093442	ENSG00000128536
2.3508	0.0093665	ENSG00000127837
2.3505	0.0093735	ENSG00000080802
2.3487	0.0094191	ENSG00000177535
2.344	0.0095398	ENSG00000099204

2.3434	0.0095557	ENSG00000143258
2.3394	0.0096581	ENSG00000120837
2.3391	0.0096662	ENSG00000145979
-2.3387	0.99033	ENSG00000072756
-2.3381	0.99031	ENSG00000080546
2.3381	0.00969	ENSG00000160856
2.3376	0.0097029	ENSG00000169313
2.3374	0.0097089	ENSG00000112561
2.336	0.0097454	ENSG00000100364
2.3354	0.0097609	ENSG00000104231
-2.3346	0.99022	ENSG00000162621
2.3346	0.009781	ENSG00000215906
-2.3339	0.9902	ENSG00000232748
2.3274	0.0099713	ENSG00000172159
2.3274	0.0099723	ENSG00000115107
2.3235	0.010077	ENSG00000113658
2.3233	0.010083	ENSG00000224051
2.3231	0.010088	ENSG00000269755
2.3227	0.010098	ENSG00000180787
-2.3211	0.98986	ENSG00000166819
-2.3206	0.98985	ENSG00000185475
2.3195	0.010183	ENSG00000160959
2.3181	0.010222	ENSG00000001084
2.3178	0.010231	ENSG00000137693
-2.3176	0.98976	ENSG00000115421
2.3175	0.010237	ENSG00000173349
-2.3166	0.98974	ENSG00000167992
2.3166	0.010262	ENSG00000107625
2.3163	0.010271	ENSG00000164414
2.3161	0.010276	ENSG00000168907
2.3149	0.01031	ENSG00000198092
2.3125	0.010374	ENSG00000108813
2.3117	0.010396	ENSG00000205250
2.3116	0.0104	ENSG00000168124
2.3088	0.010477	ENSG00000118181
-2.308	0.9895	ENSG00000156885
2.3077	0.010507	ENSG00000016082
2.3062	0.010551	ENSG00000006007
-2.3055	0.98943	ENSG00000185414
2.3021	0.010664	ENSG00000167693
2.3012	0.01069	ENSG00000131100
2.3011	0.010692	ENSG00000164690
-2.3004	0.98929	ENSG00000145198
2.3003	0.010717	ENSG00000153936
2.3002	0.010717	ENSG00000018280
-2.2998	0.98927	ENSG00000125814
2.2965	0.010823	ENSG00000167548
-2.2955	0.98915	ENSG00000180448
2.2953	0.010857	ENSG00000213023
2.2936	0.010907	ENSG00000232056
2.2891	0.011037	ENSG00000133812

-2.2888	0.98895	ENSG00000083814
2.2886	0.011051	ENSG00000183291
2.2884	0.011056	ENSG00000094916
2.2878	0.011073	ENSG00000151835
-2.2873	0.98891	ENSG00000011478
-2.287	0.9889	ENSG00000163521
-2.2851	0.98885	ENSG00000204599
-2.2843	0.98882	ENSG00000251606
2.2838	0.011191	ENSG00000140450
2.2835	0.011202	ENSG00000132254
2.2811	0.011271	ENSG00000144460
-2.2801	0.9887	ENSG00000087460
-2.2768	0.9886	ENSG00000269018
2.2746	0.011465	ENSG00000003509
-2.2741	0.98852	ENSG00000161654
2.2723	0.011533	ENSG00000122679
2.2711	0.011572	ENSG00000125944
-2.2695	0.98838	ENSG00000214562
2.2686	0.011646	ENSG00000104852
2.2684	0.011653	ENSG00000105707
2.2659	0.011729	ENSG00000125846
2.2644	0.011774	ENSG00000104886
2.2642	0.011782	ENSG00000128254
2.2633	0.011809	ENSG00000128242
2.262	0.011849	ENSG00000174156
2.2617	0.011857	ENSG00000166133
2.2609	0.011883	ENSG00000225190
-2.2598	0.98808	ENSG00000111252
2.2569	0.012008	ENSG00000167701
-2.2566	0.98798	ENSG00000186281
-2.2556	0.98795	ENSG00000125952
2.2535	0.012115	ENSG00000197045
2.253	0.012129	ENSG00000100564
2.2528	0.012136	ENSG00000144893
2.2519	0.012164	ENSG00000093134
2.2493	0.012246	ENSG00000109220
2.2491	0.012252	ENSG00000255837
-2.2483	0.98772	ENSG00000112984
2.2479	0.012291	ENSG00000132854
2.2471	0.012318	ENSG00000118965
2.2465	0.012335	ENSG00000148019
2.2463	0.012343	ENSG00000140829
2.2462	0.012345	ENSG00000175161
2.2458	0.01236	ENSG00000163629
2.2442	0.012411	ENSG00000135069
2.242	0.01248	ENSG00000138297
-2.2401	0.98746	ENSG00000139626
2.2381	0.012607	ENSG00000135821
2.2373	0.012634	ENSG00000172273
2.2354	0.012695	ENSG00000144119
-2.2341	0.98726	ENSG00000135931

-2.2339	0.98726	ENSG00000008294
2.2337	0.01275	ENSG00000175573
2.2337	0.012752	ENSG00000188580
2.2322	0.0128	ENSG00000103978
2.2313	0.012829	ENSG00000159259
2.2301	0.01287	ENSG00000122779
2.2297	0.012882	ENSG00000137054
-2.2287	0.98708	ENSG00000089101
-2.227	0.98703	ENSG00000160408
-2.2264	0.98701	ENSG00000015479
2.225	0.013039	ENSG00000089685
2.2249	0.013045	ENSG00000197265
2.2241	0.013072	ENSG00000235098
2.224	0.013073	ENSG00000196981
2.2231	0.013104	ENSG00000137055
2.2228	0.013116	ENSG00000165832
2.2226	0.013121	ENSG00000143756
-2.2208	0.98682	ENSG00000171612
-2.2201	0.98679	ENSG00000145721
2.22	0.01321	ENSG00000143753
-2.2196	0.98678	ENSG00000196420
2.2187	0.013253	ENSG00000123154
2.2158	0.013354	ENSG00000228696
2.2156	0.013358	ENSG00000186832
2.2151	0.013377	ENSG00000154917
2.2149	0.013384	ENSG00000113739
2.2127	0.013461	ENSG00000196684
-2.212	0.98652	ENSG00000167515
2.2117	0.013492	ENSG00000099866
2.2116	0.013496	ENSG00000132464
-2.2109	0.98648	ENSG00000114383
-2.2101	0.98645	ENSG00000130948
2.2101	0.013549	ENSG00000136244
2.2098	0.013561	ENSG00000132170
2.2097	0.013562	ENSG00000127920
-2.2085	0.98639	ENSG00000177051
-2.2082	0.98638	ENSG00000128272
2.2082	0.013616	ENSG00000204140
-2.2071	0.98635	ENSG00000257727
2.2069	0.013661	ENSG00000162775
-2.2059	0.9863	ENSG00000109572
2.2051	0.013723	ENSG00000125337
-2.205	0.98627	ENSG00000174106
-2.2048	0.98627	ENSG00000244414
-2.2033	0.98621	ENSG00000204427
-2.203	0.9862	ENSG00000128294
-2.2025	0.98618	ENSG00000108055
2.2024	0.01382	ENSG00000171634
2.202	0.013832	ENSG00000107872
-2.2013	0.98614	ENSG00000256591
-2.2007	0.98612	ENSG00000104643

-2.1991	0.98607	ENSG00000099985
2.199	0.013938	ENSG00000253457
2.1973	0.013999	ENSG00000265264
-2.1955	0.98593	ENSG00000186973
2.1954	0.014066	ENSG00000105695
2.1943	0.014107	ENSG00000105855
2.1925	0.014171	ENSG00000130522
-2.1918	0.9858	ENSG00000136750
2.1918	0.014195	ENSG00000159239
2.1917	0.014199	ENSG00000197437
2.1916	0.014204	ENSG00000167770
2.1913	0.014214	ENSG00000185052
2.191	0.014226	ENSG00000248712
-2.1908	0.98577	ENSG00000103642
2.1906	0.014241	ENSG00000205922
2.1903	0.014252	ENSG00000126214
-2.1902	0.98575	ENSG00000132274
2.1902	0.014256	ENSG00000005448
-2.1891	0.98571	ENSG00000082068
2.1891	0.014295	ENSG00000023909
-2.1887	0.98569	ENSG00000050628
2.1884	0.01432	ENSG00000213186
2.1884	0.014321	ENSG00000108379
-2.1851	0.98556	ENSG00000177710
2.1837	0.014491	ENSG00000090402
-2.1831	0.98549	ENSG00000174970
2.1829	0.01452	ENSG00000170017
2.1829	0.014522	ENSG00000268310
-2.1815	0.98543	ENSG00000184385
2.1815	0.014573	ENSG00000108384
2.1803	0.014619	ENSG00000123416
2.1801	0.014625	ENSG00000261427
-2.1797	0.98536	ENSG00000120709
-2.1787	0.98532	ENSG00000099377
2.1784	0.014687	ENSG00000060762
2.1781	0.0147	ENSG00000110395
-2.1772	0.98527	ENSG00000232013
2.1767	0.014751	ENSG00000130598
2.1733	0.014878	ENSG00000132749
2.1723	0.014916	ENSG00000160404
2.169	0.015042	ENSG00000267561
2.1672	0.015109	ENSG00000143627
2.1668	0.015124	ENSG00000256500
-2.1667	0.98487	ENSG00000146858
2.1664	0.015141	ENSG00000100234
-2.1663	0.98486	ENSG00000242221
-2.1652	0.98481	ENSG00000116183
2.1647	0.015204	ENSG00000002745
-2.1634	0.98474	ENSG00000141002
2.1622	0.0153	ENSG00000166595
2.162	0.01531	ENSG00000167778

2.1616	0.015324	ENSG00000134463
2.1615	0.01533	ENSG00000173376
2.1603	0.015374	ENSG00000125820
2.1601	0.015384	ENSG00000154040
2.1596	0.015403	ENSG00000183814
2.1591	0.015422	ENSG00000127328
2.1585	0.015443	ENSG00000143147
2.1581	0.015462	ENSG00000165799
2.1564	0.015526	ENSG00000167552
-2.154	0.98438	ENSG00000196839
2.154	0.015618	ENSG00000153944
2.154	0.015618	ENSG00000198597
2.1528	0.015666	ENSG00000182050
2.152	0.015697	ENSG00000179913
2.152	0.015698	ENSG00000122861
2.152	0.015699	ENSG00000123989
-2.1507	0.98425	ENSG00000105221
-2.1506	0.98425	ENSG00000204323
2.1497	0.015789	ENSG00000187951
2.1479	0.015861	ENSG00000072182
2.1474	0.015882	ENSG00000055070
2.1465	0.015915	ENSG00000135486
2.1455	0.015955	ENSG00000126883
-2.1444	0.984	ENSG00000186222
2.1414	0.016119	ENSG00000119866
-2.1394	0.9838	ENSG00000213676
2.1391	0.016213	ENSG00000189433
2.1389	0.016221	ENSG00000095370
-2.1387	0.98377	ENSG00000183888
-2.1384	0.98376	ENSG00000136068
2.1378	0.016267	ENSG00000139734
-2.137	0.9837	ENSG00000117298
2.137	0.016298	ENSG00000148308
2.1358	0.016349	ENSG00000102967
-2.1357	0.98365	ENSG00000137393
-2.1357	0.98365	ENSG00000124209
2.1356	0.016355	ENSG00000171346
2.1351	0.016377	ENSG00000171611
2.1338	0.016429	ENSG00000181908
2.1326	0.016479	ENSG00000222047
2.1318	0.016512	ENSG00000169255
2.13	0.016585	ENSG00000012779
-2.1285	0.98335	ENSG00000007171
2.1277	0.01668	ENSG00000170855
-2.127	0.98329	ENSG00000109991
2.127	0.016712	ENSG00000176895
2.126	0.016752	ENSG00000165695
2.126	0.016752	ENSG00000110318
2.1225	0.016899	ENSG00000125730
-2.1224	0.9831	ENSG00000254206
2.1216	0.016936	ENSG00000258708

-2.1198	0.98299	ENSG00000188000
2.1183	0.017075	ENSG00000185650
2.1183	0.017076	ENSG00000091972
-2.1176	0.9829	ENSG00000128699
2.1172	0.01712	ENSG00000196748
2.117	0.017129	ENSG00000204403
-2.1169	0.98287	ENSG00000172154
2.1166	0.017148	ENSG00000147912
2.1159	0.017175	ENSG00000112053
-2.1151	0.98279	ENSG00000116117
2.1151	0.017209	ENSG00000153975
2.1147	0.017226	ENSG00000106013
-2.1144	0.98276	ENSG00000168542
2.1142	0.017251	ENSG00000101190
-2.1138	0.98273	ENSG00000133800
-2.1134	0.98272	ENSG00000226742
2.113	0.0173	ENSG00000144488
-2.1126	0.98268	ENSG00000101057
-2.1098	0.98256	ENSG00000156575
-2.1093	0.98254	ENSG00000204422
-2.1092	0.98254	ENSG00000234224
2.1088	0.017482	ENSG00000118733
2.1085	0.017492	ENSG00000165966
2.1047	0.01766	ENSG00000255359
2.1029	0.017739	ENSG00000142197
-2.1025	0.98224	ENSG00000071205
2.1021	0.017774	ENSG00000162433
2.1011	0.017817	ENSG00000147642
2.1	0.017864	ENSG00000052795
-2.0992	0.9821	ENSG00000184345
-2.0991	0.9821	ENSG00000184361
2.0983	0.017941	ENSG00000178645
-2.098	0.98205	ENSG00000090905
-2.0975	0.98202	ENSG00000122203
-2.0969	0.982	ENSG00000198010
2.096	0.018042	ENSG00000110172
2.096	0.018043	ENSG00000238227
2.095	0.018085	ENSG00000152503
2.0942	0.01812	ENSG00000171345
2.0938	0.018137	ENSG00000151704
2.0924	0.018203	ENSG00000181617
-2.0906	0.98172	ENSG00000185088
2.0906	0.018283	ENSG00000004487
2.0891	0.018349	ENSG00000143224
2.0885	0.018376	ENSG00000171209
2.088	0.018399	ENSG00000125744
2.0866	0.018461	ENSG00000148090
2.0866	0.018461	ENSG00000188064
-2.085	0.98147	ENSG00000182831
2.0849	0.01854	ENSG00000257594
2.0849	0.01854	ENSG00000259075

2.0842	0.018569	ENSG00000127580
2.0836	0.018597	ENSG00000130775
2.0814	0.018696	ENSG00000273294
-2.0809	0.98128	ENSG00000183091
-2.0807	0.98127	ENSG00000174982
-2.0806	0.98126	ENSG00000231887
2.0804	0.018744	ENSG00000126215
2.0803	0.018749	ENSG00000167208
2.0803	0.018751	ENSG00000109339
2.0795	0.018785	ENSG00000077152
2.0779	0.01886	ENSG00000114378
-2.0777	0.98113	ENSG00000121680
-2.0755	0.98103	ENSG00000180304
2.0754	0.018974	ENSG00000125740
2.0754	0.018976	ENSG00000185155
-2.0751	0.98101	ENSG00000215845
2.075	0.018993	ENSG00000205791
2.0741	0.019036	ENSG00000120708
2.0724	0.019115	ENSG00000196092
-2.0716	0.98085	ENSG00000184619
2.0714	0.019161	ENSG00000168014
2.0712	0.019172	ENSG00000150867
2.0687	0.019288	ENSG00000177875
2.0682	0.019309	ENSG00000165028
2.0677	0.019335	ENSG00000186960
2.0671	0.019362	ENSG00000188760
2.0667	0.019383	ENSG00000197790
2.0667	0.019383	ENSG00000176697
2.0664	0.019397	ENSG00000184985
-2.0653	0.98055	ENSG00000129993
2.0649	0.019467	ENSG00000137880
-2.0647	0.98052	ENSG00000124575
2.0639	0.019514	ENSG00000159314
-2.0637	0.98048	ENSG00000204655
2.0633	0.019541	ENSG00000176248
-2.0631	0.98045	ENSG00000106809
2.0621	0.0196	ENSG00000124469
-2.0615	0.98037	ENSG00000178460
2.061	0.019652	ENSG00000100842
2.0609	0.019655	ENSG00000256966
2.0601	0.019694	ENSG00000256407
2.0597	0.019712	ENSG00000166592
2.0589	0.019754	ENSG00000160957
2.0587	0.01976	ENSG00000188766
2.0584	0.019774	ENSG00000109586
-2.0579	0.9802	ENSG00000198150
2.0575	0.019821	ENSG00000051180
2.0574	0.019822	ENSG00000034713
2.0574	0.019825	ENSG00000120451
-2.0572	0.98017	ENSG00000160050
2.0569	0.019847	ENSG00000153071

2.0567	0.019857	ENSG00000249141
2.0562	0.019881	ENSG00000139323
-2.0558	0.9801	ENSG00000231861
2.0544	0.019968	ENSG00000132938
2.0538	0.019998	ENSG00000171700
2.0533	0.020022	ENSG00000169914
2.0525	0.020058	ENSG00000175175
2.0521	0.02008	ENSG00000082196
2.052	0.020086	ENSG00000184349
2.0519	0.020088	ENSG00000107949
-2.0504	0.97984	ENSG00000082014
-2.0502	0.97983	ENSG00000273291
2.0498	0.020191	ENSG00000122966
-2.0495	0.9798	ENSG00000011465
2.0488	0.020243	ENSG00000134779
2.0486	0.020251	ENSG00000143556
2.0486	0.020251	ENSG00000179593
-2.0484	0.97974	ENSG00000064547
-2.0481	0.97973	ENSG00000125787
-2.0479	0.97971	ENSG00000121486
2.0477	0.020295	ENSG00000213889
-2.0476	0.9797	ENSG00000116095
2.0473	0.020313	ENSG00000227011
2.0472	0.020318	ENSG00000159256
2.0472	0.020319	ENSG00000183196
-2.0471	0.97968	ENSG00000033100
-2.0465	0.97964	ENSG00000107341
2.0462	0.02037	ENSG00000108839
-2.0461	0.97963	ENSG00000162298
2.0457	0.020393	ENSG00000172828
2.0455	0.020402	ENSG00000198265
2.0451	0.020423	ENSG00000184389
-2.0447	0.97956	ENSG00000145649
2.0446	0.020448	ENSG00000154001
-2.0442	0.97953	ENSG00000159212
-2.0433	0.97949	ENSG00000214160
-2.0423	0.97944	ENSG00000109163
2.0419	0.020582	ENSG00000196371
2.0418	0.020586	ENSG00000135525
2.0417	0.020591	ENSG00000182372
2.0411	0.020618	ENSG00000135638
2.04	0.020674	ENSG00000129219
2.0386	0.020747	ENSG00000187833
2.036	0.020878	ENSG00000115282
2.0358	0.020884	ENSG00000020181
2.0352	0.020914	ENSG00000170035
2.0349	0.020929	ENSG00000117505
-2.0341	0.97903	ENSG00000039987
2.0339	0.020979	ENSG00000127954
2.0321	0.021072	ENSG00000134369
-2.0315	0.9789	ENSG00000268317

2.0305	0.021151	ENSG00000155754
2.0298	0.021186	ENSG00000177025
2.0295	0.021203	ENSG00000143384
-2.0284	0.97874	ENSG00000149654
2.0284	0.021258	ENSG00000112941
2.0267	0.021347	ENSG00000172831
2.0266	0.02135	ENSG00000187766
2.0258	0.021392	ENSG00000070808
2.0253	0.021418	ENSG00000196826
-2.0252	0.97858	ENSG00000109684
2.0251	0.02143	ENSG00000164128
-2.025	0.97856	ENSG00000185090
2.0248	0.021446	ENSG00000100241
-2.0246	0.97855	ENSG00000131504
-2.0245	0.97854	ENSG00000112983
2.0239	0.021491	ENSG00000124006
2.0239	0.021492	ENSG00000184939
2.0238	0.021494	ENSG00000100345
-2.0227	0.97845	ENSG00000140527
2.0227	0.021553	ENSG00000138293
2.0225	0.02156	ENSG00000185559
2.0221	0.021585	ENSG00000054793
2.0218	0.0216	ENSG00000251655
2.0214	0.021618	ENSG00000196504
2.0214	0.021622	ENSG00000104522
2.0205	0.021668	ENSG00000123395
2.0199	0.021696	ENSG00000119541
2.0195	0.02172	ENSG00000268553
2.0194	0.021725	ENSG00000184984
2.0188	0.021754	ENSG00000142751
2.0188	0.021755	ENSG00000164346
2.0172	0.021839	ENSG00000215883
2.0171	0.021845	ENSG00000144285
2.0169	0.021853	ENSG00000138668
-2.0164	0.97812	ENSG00000121274
2.0151	0.021948	ENSG00000110768
2.0135	0.022033	ENSG00000058091
2.0129	0.022063	ENSG00000264194
2.012	0.022108	ENSG00000139372
2.0119	0.022116	ENSG00000095209
2.0117	0.022126	ENSG00000120159
2.0109	0.022167	ENSG00000135346
2.0109	0.022168	ENSG00000125703
-2.0101	0.97779	ENSG00000116586
2.0096	0.022237	ENSG00000164284
2.0089	0.022274	ENSG00000143630
2.0084	0.022301	ENSG00000125945
2.0078	0.022332	ENSG00000166619
-2.0074	0.97765	ENSG00000248485
2.0069	0.022381	ENSG00000148143
-2.0061	0.97758	ENSG00000154277

-2.0054	0.97754	ENSG00000127318
-2.0051	0.97752	ENSG00000010318
-2.0046	0.9775	ENSG00000157557
2.0043	0.022517	ENSG00000143153
2.0042	0.022523	ENSG00000187144
-2.004	0.97746	ENSG00000156049
-2.0031	0.97742	ENSG00000257230
-2.003	0.97741	ENSG00000176619
2.0027	0.022606	ENSG00000138496
2.0022	0.022631	ENSG00000186306
2.0005	0.022721	ENSG00000125148
-1.9998	0.97724	ENSG00000234965
-1.9983	0.97716	ENSG00000130956
1.9983	0.022843	ENSG00000185988
-1.9975	0.97712	ENSG00000214756
-1.9974	0.97711	ENSG00000267873
1.9973	0.022894	ENSG00000165983
1.9973	0.022894	ENSG00000197444
1.9973	0.022895	ENSG00000198646
-1.9959	0.97703	ENSG00000092200
1.9959	0.022972	ENSG00000163347
1.9953	0.023004	ENSG00000268059
1.9952	0.023011	ENSG00000182909
1.9951	0.023015	ENSG00000151461
-1.9949	0.97697	ENSG00000016490
1.9948	0.023035	ENSG00000212124
1.9946	0.023041	ENSG00000166900
-1.9942	0.97693	ENSG00000171132
1.9939	0.023079	ENSG00000181396
1.9938	0.02309	ENSG00000152256
1.9937	0.023091	ENSG00000142494
-1.9936	0.9769	ENSG00000114388
-1.9935	0.9769	ENSG00000173372
1.9933	0.023115	ENSG00000156256
1.9931	0.023123	ENSG00000042753
1.9905	0.02327	ENSG00000110955
-1.99	0.9767	ENSG00000257365
1.9894	0.023329	ENSG00000136709
1.9891	0.023345	ENSG00000096070
1.9887	0.023366	ENSG00000077616
1.9863	0.023502	ENSG00000242515
1.9861	0.023511	ENSG00000169247
1.9848	0.023585	ENSG00000116133
1.9839	0.023631	ENSG00000212997
1.9835	0.023656	ENSG00000187140
1.9835	0.023657	ENSG00000166257
1.9834	0.02366	ENSG00000197851
1.9834	0.023661	ENSG00000213079
-1.9828	0.97631	ENSG00000174669
-1.9828	0.97631	ENSG00000124224
-1.9822	0.97627	ENSG00000196533

1.9822	0.023728	ENSG00000197385
1.9817	0.023757	ENSG00000133454
1.9815	0.023765	ENSG00000185261
-1.9807	0.97619	ENSG00000179930
1.9807	0.023814	ENSG00000183963
1.9801	0.023844	ENSG00000174944
1.9799	0.023858	ENSG00000115274
-1.9781	0.97604	ENSG00000204420
-1.9781	0.97604	ENSG00000133561
1.9775	0.023994	ENSG00000140941
1.9768	0.02403	ENSG00000129197
1.9763	0.024061	ENSG00000261701
-1.9762	0.97594	ENSG00000187049
1.9759	0.024082	ENSG00000172578
1.9756	0.024099	ENSG00000255800
1.9755	0.024104	ENSG00000153956
1.9749	0.024139	ENSG00000130413
-1.9747	0.97585	ENSG00000197948
-1.9745	0.97583	ENSG00000181885
-1.9742	0.97582	ENSG00000122218
1.9742	0.024178	ENSG00000029363
1.9737	0.024209	ENSG00000149269
1.9735	0.024218	ENSG00000128594
-1.9721	0.9757	ENSG00000187531
-1.9719	0.97569	ENSG00000179348
1.9716	0.02433	ENSG00000153029
1.9696	0.024445	ENSG00000205595
-1.9695	0.97555	ENSG00000103275
-1.9692	0.97553	ENSG00000166924
-1.9689	0.97552	ENSG00000124532
1.9682	0.024523	ENSG00000101464
1.9678	0.024544	ENSG00000165188
1.9677	0.024549	ENSG00000164347
1.9672	0.024579	ENSG00000099341
-1.9666	0.97539	ENSG00000244291
1.9661	0.024644	ENSG00000136783
1.9659	0.024658	ENSG00000185860
1.9656	0.024672	ENSG00000257019
1.9656	0.024673	ENSG00000090006
1.9655	0.024678	ENSG00000115275
1.9652	0.024697	ENSG00000029725
-1.9649	0.97529	ENSG00000144445
-1.9633	0.97519	ENSG00000149133
1.9629	0.02483	ENSG00000136450
1.9627	0.024838	ENSG00000270099
-1.962	0.97512	ENSG00000196305
1.9617	0.0249	ENSG00000198898
-1.9615	0.97509	ENSG00000100412
-1.961	0.97506	ENSG00000129910
-1.9593	0.97496	ENSG00000168395
1.9589	0.025061	ENSG00000166483

1.9589	0.025061	ENSG00000134812
1.9588	0.025066	ENSG00000108561
-1.9587	0.97492	ENSG00000254726
1.9583	0.025099	ENSG00000164054
1.9581	0.025107	ENSG00000137824
1.9578	0.025127	ENSG00000102970
-1.9572	0.97484	ENSG00000172663
1.9565	0.025205	ENSG00000133983
1.9563	0.025216	ENSG00000211450
1.9559	0.025238	ENSG00000070761
1.9556	0.025258	ENSG00000228075
-1.9551	0.97471	ENSG00000175931
-1.955	0.97471	ENSG00000185669
1.9541	0.025343	ENSG00000241635
1.9531	0.025405	ENSG00000204398
-1.9529	0.97459	ENSG00000183864
1.9528	0.025421	ENSG00000017797
1.9526	0.025436	ENSG00000184588
-1.9525	0.97456	ENSG00000226479
1.9525	0.025437	ENSG00000188486
1.9523	0.025451	ENSG00000130518
-1.9522	0.97454	ENSG00000136197
-1.952	0.97453	ENSG00000122591
-1.952	0.97453	ENSG00000006831
1.9513	0.025512	ENSG00000164175
-1.9508	0.97446	ENSG00000166471
-1.9507	0.97445	ENSG00000253207
-1.9503	0.97443	ENSG00000110244
1.9503	0.025573	ENSG00000168679
-1.9501	0.97442	ENSG00000125954
1.9497	0.025605	ENSG00000121101
-1.9496	0.97439	ENSG00000101442
1.949	0.025646	ENSG00000143882
1.9484	0.025681	ENSG00000164411
1.9482	0.025695	ENSG00000268413
-1.9481	0.9743	ENSG00000268175
1.9479	0.025713	ENSG00000196083
1.9473	0.025748	ENSG00000115009
1.947	0.025767	ENSG00000128422
-1.9468	0.97422	ENSG00000127083
1.9463	0.025806	ENSG00000138115
1.9463	0.02581	ENSG00000247626
1.9463	0.02581	ENSG00000198373
-1.9461	0.97418	ENSG00000099899
-1.946	0.97417	ENSG00000181007
1.9455	0.025856	ENSG00000204571
-1.9451	0.97412	ENSG00000175213
1.9451	0.025884	ENSG00000077157
-1.9447	0.97409	ENSG00000117595
1.9445	0.025915	ENSG00000084652
-1.9443	0.97407	ENSG00000159516

1.9439	0.025955	ENSG00000204160
-1.9438	0.97404	ENSG00000159763
1.9427	0.026026	ENSG00000083799
-1.9424	0.97395	ENSG00000186479
-1.942	0.97393	ENSG00000118900
-1.9414	0.9739	ENSG00000154645
1.9414	0.026106	ENSG00000167178
1.9406	0.026155	ENSG00000214357
1.9401	0.026184	ENSG00000141101
1.9388	0.026262	ENSG00000163817
-1.9385	0.97372	ENSG00000180921
1.9378	0.026323	ENSG00000115541
1.9378	0.026327	ENSG00000166912
1.9376	0.026337	ENSG00000115718
1.9375	0.02634	ENSG00000127838
1.9374	0.026349	ENSG00000170270
-1.9373	0.97364	ENSG00000124181
1.9366	0.026397	ENSG00000166747
1.9366	0.026399	ENSG00000137700
1.9364	0.026411	ENSG00000198464
1.9362	0.026424	ENSG00000115286
1.9352	0.026485	ENSG00000262246
1.9348	0.02651	ENSG00000144645
-1.9342	0.97346	ENSG00000106404
1.934	0.026555	ENSG00000109674
1.934	0.026557	ENSG00000064489
1.9329	0.026624	ENSG00000160972
1.9303	0.026788	ENSG00000257860
1.93	0.026802	ENSG00000152661
1.93	0.026805	ENSG00000122741
-1.9292	0.97315	ENSG00000078898
1.9291	0.026861	ENSG00000113083
-1.9286	0.97311	ENSG00000124795
1.9283	0.026908	ENSG00000160055
1.9278	0.026937	ENSG00000162976
1.9269	0.026994	ENSG00000121775
-1.9267	0.97299	ENSG00000204548
1.9264	0.027026	ENSG00000204498
1.9263	0.027034	ENSG00000182885
1.9253	0.027094	ENSG00000198832
1.9234	0.027215	ENSG00000213999
1.9233	0.027218	ENSG00000253598
1.9233	0.02722	ENSG00000148219
1.9225	0.027274	ENSG00000242852
1.9224	0.027281	ENSG00000103423
1.9221	0.027296	ENSG00000174151
1.9218	0.027312	ENSG00000107147
1.9206	0.02739	ENSG00000241119
1.9204	0.027407	ENSG00000178597
1.9203	0.027412	ENSG00000149257
-1.9193	0.97253	ENSG00000165424

1.9184	0.027529	ENSG00000130701
-1.9176	0.97242	ENSG00000121281
1.9175	0.027589	ENSG00000172867
1.9173	0.027601	ENSG00000116031
1.9169	0.027627	ENSG00000184402
1.9163	0.027661	ENSG00000167186
1.9163	0.027664	ENSG00000084623
-1.9156	0.97229	ENSG00000151239
1.9151	0.027737	ENSG00000162771
-1.9143	0.97221	ENSG00000169676
1.9141	0.027804	ENSG00000239779
1.914	0.027813	ENSG00000145623
-1.9118	0.97205	ENSG00000203711
1.9118	0.02795	ENSG00000135916
-1.9117	0.97204	ENSG00000041982
1.9107	0.028018	ENSG00000171867
1.9107	0.028019	ENSG00000043514
1.9104	0.02804	ENSG00000102466
1.9097	0.028088	ENSG00000134283
-1.9082	0.97182	ENSG00000164933
-1.9082	0.97182	ENSG00000140600
-1.9071	0.97175	ENSG00000070444
-1.9069	0.97173	ENSG00000080345
1.9064	0.0283	ENSG00000109472
-1.9058	0.97166	ENSG00000205426
1.9054	0.028365	ENSG00000196937
1.9043	0.028433	ENSG00000152795
1.9043	0.028437	ENSG00000205464
1.904	0.028456	ENSG00000244045
-1.9036	0.97152	ENSG00000164176
1.9029	0.028528	ENSG00000096088
-1.9028	0.97147	ENSG00000109686
-1.9028	0.97147	ENSG00000130204
-1.9023	0.97144	ENSG00000128917
-1.9018	0.9714	ENSG00000181752
1.9013	0.028635	ENSG00000204661
1.9005	0.028683	ENSG00000071537
1.8988	0.028794	ENSG00000136869
1.8988	0.028797	ENSG00000117616
1.8985	0.028816	ENSG00000099795
1.8981	0.028839	ENSG00000213593
1.8973	0.028895	ENSG00000160973
1.8973	0.028896	ENSG00000114030
1.8972	0.028899	ENSG00000163534
1.8967	0.028931	ENSG00000162944
1.8958	0.028996	ENSG00000196155
-1.8955	0.97099	ENSG00000204595
-1.8953	0.97097	ENSG00000134107
1.8948	0.029059	ENSG00000058600
-1.8943	0.97091	ENSG00000140691
1.8928	0.029192	ENSG00000145757

1.8927	0.029196	ENSG00000072195
-1.8917	0.97074	ENSG00000134363
1.8911	0.029302	ENSG00000087274
1.891	0.029312	ENSG00000124772
-1.8909	0.97068	ENSG00000204657
1.8904	0.029354	ENSG00000164197
1.8901	0.029374	ENSG00000155875
-1.8899	0.97061	ENSG00000204653
-1.8899	0.97062	ENSG00000143793
-1.8898	0.97061	ENSG00000204381
1.8898	0.029395	ENSG00000186432
1.8889	0.02945	ENSG00000136875
1.8882	0.029499	ENSG00000040199
1.8878	0.029527	ENSG00000135723
1.8873	0.029561	ENSG00000183607
1.887	0.029577	ENSG00000197870
-1.8867	0.9704	ENSG00000243927
-1.8865	0.97039	ENSG00000144649
-1.8863	0.97037	ENSG00000131068
1.8848	0.029727	ENSG00000177058
1.8847	0.029732	ENSG00000165702
-1.8846	0.97026	ENSG00000140632
1.8843	0.029763	ENSG00000198183
-1.884	0.97022	ENSG00000125848
1.8834	0.029823	ENSG00000166833
-1.883	0.97015	ENSG00000158552
-1.8826	0.97013	ENSG00000213901
1.8814	0.029961	ENSG00000059915
1.881	0.029984	ENSG00000004799
-1.8796	0.96992	ENSG00000006015
1.8796	0.03008	ENSG00000232237
-1.8795	0.96991	ENSG00000008300
1.8786	0.03015	ENSG00000249242
-1.8781	0.96981	ENSG00000182621
-1.8781	0.96982	ENSG00000212710
-1.8779	0.9698	ENSG00000236338
1.8779	0.0302	ENSG00000134901
1.8778	0.030205	ENSG00000103522
1.877	0.030258	ENSG00000139914
1.8768	0.03027	ENSG00000180914
-1.8767	0.96972	ENSG00000187736
-1.8764	0.9697	ENSG00000010803
1.8764	0.030301	ENSG00000082146
1.8762	0.030317	ENSG00000172375
1.8761	0.030321	ENSG00000025800
1.8749	0.030404	ENSG00000129810
-1.8748	0.96959	ENSG00000181690
1.8741	0.030456	ENSG00000197745
1.8737	0.030487	ENSG00000134986
1.8723	0.030585	ENSG00000198420
1.8723	0.030585	ENSG00000175567

1.8719	0.030608	ENSG00000196323
1.8719	0.030608	ENSG00000140832
-1.8706	0.9693	ENSG00000163737
-1.8701	0.96927	ENSG00000080644
1.8698	0.030753	ENSG00000198443
1.8698	0.030755	ENSG00000081154
1.8698	0.030759	ENSG00000153560
1.8694	0.03078	ENSG00000165819
-1.8684	0.96914	ENSG00000269781
1.8677	0.0309	ENSG00000260272
1.8676	0.030906	ENSG00000075292
-1.8674	0.96908	ENSG00000256797
1.8673	0.030933	ENSG00000215182
1.8664	0.030993	ENSG00000164112
1.8664	0.030995	ENSG00000118058
1.8662	0.031008	ENSG00000078140
1.8655	0.031056	ENSG00000158796
1.8654	0.031064	ENSG00000188428
1.8651	0.031085	ENSG00000122483
1.8636	0.03119	ENSG00000258052
1.8622	0.031287	ENSG00000187811
-1.8619	0.96869	ENSG00000178502
1.8617	0.031323	ENSG00000141293
1.8617	0.031324	ENSG00000179168
-1.8612	0.96865	ENSG00000204531
1.8611	0.031362	ENSG00000173662
-1.8607	0.9686	ENSG00000175416
1.8606	0.031403	ENSG00000103426
1.8602	0.031427	ENSG00000136944
1.8596	0.031473	ENSG00000101298
1.8592	0.031502	ENSG00000158373
-1.8591	0.96849	ENSG00000263809
1.8588	0.03153	ENSG00000164107
1.8575	0.031619	ENSG00000180116
1.8573	0.031633	ENSG00000101605
1.8558	0.031744	ENSG00000170153
1.8554	0.031772	ENSG00000181418
-1.8548	0.96819	ENSG00000273155
-1.8546	0.96817	ENSG00000145348
1.8538	0.03188	ENSG00000139168
-1.8534	0.96808	ENSG00000099330
1.8527	0.031965	ENSG00000109072
1.8527	0.031966	ENSG00000142303
1.8523	0.03199	ENSG00000221986
-1.852	0.96799	ENSG00000234631
-1.8508	0.9679	ENSG00000258792
1.8501	0.03215	ENSG00000268206
-1.8498	0.96783	ENSG00000122188
1.849	0.032229	ENSG00000143799
1.8489	0.03224	ENSG00000110048
1.8487	0.032252	ENSG00000119888

-1.8484	0.96773	ENSG00000204315
1.8483	0.032279	ENSG00000089876
1.848	0.032302	ENSG00000082556
1.8478	0.032318	ENSG00000153558
1.8477	0.032322	ENSG00000014641
1.8474	0.032347	ENSG00000068885
-1.8472	0.96764	ENSG00000141759
1.8471	0.032365	ENSG00000180329
1.8463	0.032426	ENSG00000129472
1.8462	0.032429	ENSG00000143951
-1.8456	0.96752	ENSG00000056050
-1.8442	0.96742	ENSG00000215218
-1.8437	0.96739	ENSG00000120662
1.8437	0.032614	ENSG00000143952
1.8431	0.032656	ENSG00000167970
1.8429	0.032673	ENSG00000004139
-1.8428	0.96732	ENSG00000268602
-1.8427	0.96732	ENSG00000132824
1.8423	0.032716	ENSG00000116014
-1.8418	0.96725	ENSG00000181378
1.8416	0.032765	ENSG00000071189
-1.8414	0.96722	ENSG00000137804
1.8412	0.032795	ENSG00000130726
1.8403	0.03286	ENSG00000183559
1.8392	0.032941	ENSG00000114395
-1.8389	0.96703	ENSG00000144161
1.8387	0.032982	ENSG00000267796
1.8382	0.033013	ENSG00000215067
1.8375	0.033072	ENSG00000254656
1.8374	0.033075	ENSG00000184601
1.8372	0.033092	ENSG00000176101
1.8369	0.033113	ENSG00000114439
1.8366	0.033138	ENSG00000183908
1.8365	0.033142	ENSG00000180543
1.836	0.03318	ENSG00000167771
-1.8354	0.96678	ENSG00000132716
-1.8354	0.96678	ENSG00000106333
1.8353	0.033231	ENSG00000198851
1.8352	0.033238	ENSG00000110756
1.8349	0.033263	ENSG00000198643
1.8344	0.0333	ENSG00000005981
-1.8342	0.96669	ENSG00000095110
1.8331	0.033392	ENSG00000178795
1.8327	0.033423	ENSG00000116151
1.8318	0.033488	ENSG00000148634
1.8309	0.033555	ENSG00000214841
1.8303	0.033602	ENSG00000185630
-1.8302	0.96639	ENSG0000025039
1.8295	0.033664	ENSG00000146006
1.8285	0.03374	ENSG00000156253
1.8283	0.033753	ENSG00000188859

1.8279	0.033783	ENSG00000172289
1.8278	0.033789	ENSG00000188522
-1.8276	0.9662	ENSG00000258231
1.8275	0.033814	ENSG00000126351
-1.8268	0.96614	ENSG00000270188
-1.8262	0.96609	ENSG00000145075
1.8261	0.033917	ENSG00000138315
1.826	0.033922	ENSG00000086827
-1.8253	0.96602	ENSG00000136193
1.8253	0.033979	ENSG00000134186
1.8248	0.034018	ENSG00000221946
-1.8245	0.96596	ENSG00000129116
1.8242	0.034057	ENSG00000221900
-1.8239	0.96592	ENSG00000182230
1.8235	0.034114	ENSG00000143772
1.8235	0.034115	ENSG00000254462
1.8233	0.034126	ENSG00000133863
1.8227	0.034176	ENSG00000101311
-1.8226	0.96582	ENSG00000169379
1.8225	0.034188	ENSG00000170946
1.822	0.03423	ENSG00000168116
-1.8213	0.96572	ENSG00000183386
-1.8203	0.96564	ENSG00000115170
1.8203	0.034355	ENSG00000130479
-1.8202	0.96563	ENSG00000167525
-1.8201	0.96563	ENSG00000165471
-1.8188	0.96553	ENSG00000121316
-1.8178	0.96545	ENSG00000164934
1.8174	0.034576	ENSG00000164946
1.8169	0.034616	ENSG00000167272
1.8166	0.034642	ENSG00000135218
-1.8163	0.96534	ENSG00000101473
1.816	0.034683	ENSG00000100146
1.8158	0.034703	ENSG00000080371
1.8153	0.03474	ENSG00000204954
1.8149	0.03477	ENSG00000106785
1.8149	0.034771	ENSG00000180708
1.8148	0.034777	ENSG00000226757
-1.8147	0.96521	ENSG00000154781
-1.8145	0.9652	ENSG00000226209
-1.8143	0.96519	ENSG00000198039
-1.8142	0.96518	ENSG00000171942
-1.8136	0.96513	ENSG00000182004
-1.8127	0.96506	ENSG00000114423
1.8127	0.034937	ENSG00000156261
-1.8126	0.96505	ENSG00000178764
1.8123	0.034968	ENSG00000138650
1.8119	0.034999	ENSG00000131188
-1.8118	0.965	ENSG00000170290
1.8115	0.035031	ENSG00000197275
1.8104	0.035116	ENSG00000088986

-1.8103	0.96488	ENSG00000165617
1.81	0.035146	ENSG00000158764
-1.8094	0.9648	ENSG00000167985
-1.8091	0.96478	ENSG00000114450
1.809	0.035229	ENSG00000167460
1.8089	0.035233	ENSG00000181029
1.8087	0.035253	ENSG00000256100
1.8082	0.035289	ENSG00000110330
-1.8076	0.96467	ENSG00000197937
-1.8068	0.96461	ENSG00000249590
1.8065	0.035421	ENSG00000096872
1.8061	0.035449	ENSG00000188596
-1.8055	0.9645	ENSG00000112159
1.8053	0.035515	ENSG00000183722
-1.8052	0.96447	ENSG00000163002
-1.8052	0.96448	ENSG00000186723
1.8049	0.035543	ENSG00000125734
1.8049	0.035549	ENSG00000175193
-1.8048	0.96445	ENSG00000187821
1.8044	0.035583	ENSG00000186081
-1.8041	0.96439	ENSG00000166148
-1.8035	0.96434	ENSG00000148459
-1.8028	0.96429	ENSG00000186329
-1.8024	0.96426	ENSG00000156521
1.8022	0.035757	ENSG00000132286
1.8019	0.035784	ENSG00000166250
1.8018	0.035785	ENSG00000073969
-1.8004	0.9641	ENSG00000170476
1.8004	0.035896	ENSG00000150637
1.8003	0.03591	ENSG00000115423
-1.8002	0.96409	ENSG00000147434
-1.8	0.96407	ENSG00000105609
-1.7998	0.96405	ENSG00000087258
1.7996	0.035964	ENSG00000128591
1.7994	0.035977	ENSG00000152492
1.7991	0.035999	ENSG00000225921
-1.799	0.96399	ENSG00000170542
1.7987	0.036032	ENSG00000175198
1.7986	0.036038	ENSG00000116266
1.7986	0.036042	ENSG00000148935
1.7966	0.036203	ENSG00000187772
1.7962	0.036228	ENSG00000122728
1.7961	0.036235	ENSG00000243667
1.7959	0.036256	ENSG00000118557
1.7958	0.036261	ENSG00000142149
1.7958	0.036266	ENSG00000204851
1.7949	0.036332	ENSG00000107263
-1.7943	0.96362	ENSG00000167302
1.794	0.036407	ENSG00000156265
-1.7937	0.96357	ENSG00000160932
-1.7927	0.96349	ENSG00000088926

-1.7926	0.96348	ENSG00000125864
1.7924	0.036534	ENSG00000256436
1.7921	0.03656	ENSG00000237102
1.7916	0.036601	ENSG00000153814
-1.7914	0.96339	ENSG00000000457
1.7913	0.036624	ENSG00000228768
1.7909	0.036652	ENSG00000138639
1.7909	0.036655	ENSG00000168275
-1.7906	0.96332	ENSG00000160602
1.7903	0.0367	ENSG00000115816
1.7897	0.03675	ENSG00000170683
-1.789	0.96319	ENSG00000243811
1.7887	0.036832	ENSG00000167615
1.7885	0.036848	ENSG00000158825
-1.7879	0.96311	ENSG00000197956
1.7876	0.036923	ENSG00000185736
1.7873	0.036942	ENSG00000115368
-1.7871	0.96304	ENSG00000125812
-1.7868	0.96302	ENSG00000085644
1.7868	0.036981	ENSG00000004776
1.7861	0.037041	ENSG00000180628
1.7858	0.037064	ENSG00000110871
1.7855	0.037088	ENSG00000121933
1.7846	0.037162	ENSG00000176567
-1.7845	0.96283	ENSG00000130167
-1.7838	0.96277	ENSG00000170522
-1.7835	0.96274	ENSG00000137073
1.7835	0.037249	ENSG00000149582
-1.7833	0.96273	ENSG00000166582
1.7826	0.037326	ENSG00000075142
1.7824	0.037338	ENSG00000183346
1.7821	0.037367	ENSG00000120756
1.7821	0.037368	ENSG00000164180
1.7803	0.037511	ENSG00000121774
-1.7797	0.96244	ENSG00000204536
1.7797	0.037559	ENSG00000144035
-1.7795	0.96242	ENSG00000105137
1.7794	0.037587	ENSG00000145293
1.7793	0.037599	ENSG00000181104
1.7792	0.037603	ENSG00000165606
-1.7785	0.96234	ENSG00000121073
1.7785	0.037662	ENSG00000163792
1.7782	0.037688	ENSG00000255501
-1.7778	0.96228	ENSG00000118276
1.7777	0.037726	ENSG00000165389
-1.7774	0.96225	ENSG00000132514
1.7773	0.037757	ENSG00000116717
1.7772	0.037771	ENSG00000170382
1.777	0.037783	ENSG00000134962
1.7769	0.03779	ENSG00000231274
1.7766	0.037816	ENSG00000196267

1.7764	0.03783	ENSG00000109819
1.7757	0.03789	ENSG00000243135
1.7752	0.037934	ENSG00000025434
-1.7749	0.96204	ENSG00000126070
1.7745	0.037987	ENSG00000162849
-1.7744	0.962	ENSG00000181009
1.774	0.038034	ENSG00000065491
-1.7738	0.96195	ENSG00000100216
-1.7735	0.96192	ENSG00000173338
-1.7729	0.96188	ENSG00000103671
1.7722	0.038178	ENSG00000128872
1.7714	0.038248	ENSG00000176058
1.7714	0.038249	ENSG00000244122
-1.7707	0.96169	ENSG00000186818
-1.7703	0.96166	ENSG00000148158
-1.7695	0.96159	ENSG00000237787
1.7693	0.038418	ENSG00000135537
1.7686	0.038479	ENSG00000186860
1.7679	0.038537	ENSG00000140044
1.7677	0.038557	ENSG00000139174
1.7668	0.038631	ENSG00000145882
-1.7667	0.96136	ENSG00000181323
-1.7662	0.96132	ENSG00000100626
-1.7657	0.96127	ENSG00000186226
-1.7657	0.96128	ENSG00000046889
1.7647	0.038811	ENSG00000146243
-1.7642	0.96115	ENSG00000136634
1.7642	0.038852	ENSG00000172367
-1.7639	0.96113	ENSG00000123908
1.7638	0.038884	ENSG00000196923
1.7636	0.038898	ENSG00000144935
1.7635	0.038904	ENSG00000184005
-1.7632	0.96107	ENSG00000143318
1.763	0.038954	ENSG00000113369
-1.7628	0.96104	ENSG00000058404
-1.7625	0.96101	ENSG00000105514
1.7624	0.038998	ENSG00000173432
1.7623	0.039008	ENSG00000143801
-1.7619	0.96096	ENSG00000152894
-1.7619	0.96096	ENSG00000129534
1.7617	0.039061	ENSG00000256618
1.7613	0.039091	ENSG00000131737
-1.7612	0.9609	ENSG00000260342
1.7611	0.039113	ENSG00000080007
1.761	0.03912	ENSG00000132773
1.7609	0.039128	ENSG00000006283
1.7604	0.039166	ENSG00000166822
1.7603	0.039178	ENSG00000110958
-1.7593	0.96074	ENSG00000186272
1.7592	0.039269	ENSG00000182185
-1.759	0.96071	ENSG00000106628

-1.7588	0.96069	ENSG00000231925
-1.7588	0.96069	ENSG00000137547
1.7586	0.039322	ENSG00000115488
-1.7585	0.96067	ENSG00000136297
-1.7581	0.96064	ENSG00000132323
-1.7581	0.96064	ENSG00000176787
1.7574	0.039427	ENSG00000175084
-1.7567	0.96052	ENSG00000166509
-1.7562	0.96047	ENSG00000078699
1.7557	0.03957	ENSG00000254732
1.7556	0.039582	ENSG00000014257
1.7553	0.039601	ENSG00000183653
-1.7539	0.96027	ENSG00000174744
1.7539	0.039723	ENSG00000164332
-1.7537	0.96026	ENSG00000119681
-1.7537	0.96026	ENSG00000167384
1.7537	0.039743	ENSG00000166845
1.7534	0.039766	ENSG00000032742
-1.753	0.9602	ENSG00000131459
1.753	0.0398	ENSG00000146378
1.7529	0.039811	ENSG00000127561
1.7525	0.039845	ENSG00000115904
1.7525	0.039845	ENSG00000184434
1.7523	0.039859	ENSG00000198774
1.7522	0.03987	ENSG00000197079
-1.7515	0.96007	ENSG00000258465
1.7515	0.039928	ENSG00000256053
1.7515	0.039931	ENSG00000079385
1.7514	0.039937	ENSG00000087253
1.7506	0.040008	ENSG00000141582
1.7504	0.040026	ENSG00000125149
1.7503	0.040032	ENSG00000149196
1.7498	0.040073	ENSG00000156273
-1.7494	0.95989	ENSG00000026508
1.7492	0.040127	ENSG00000112977
1.749	0.040144	ENSG00000120868
1.749	0.040145	ENSG00000176102
1.7484	0.040197	ENSG00000139636
1.7483	0.040204	ENSG00000111231
1.748	0.040234	ENSG00000176922
1.748	0.040235	ENSG00000163285
-1.7479	0.95976	ENSG00000157764
1.7473	0.040293	ENSG00000268626
1.747	0.040315	ENSG00000099194
1.7468	0.040338	ENSG00000108468
1.7467	0.040347	ENSG00000175137
1.7467	0.040347	ENSG00000157856
-1.7463	0.95962	ENSG00000143486
-1.7454	0.95954	ENSG00000054965
-1.7448	0.95949	ENSG00000169684
-1.7438	0.9594	ENSG00000254440

1.7435	0.040625	ENSG00000196376
1.7432	0.040647	ENSG00000166152
1.7427	0.040691	ENSG00000162994
-1.7425	0.95929	ENSG00000166596
1.7425	0.040711	ENSG00000142615
1.7425	0.040713	ENSG00000140287
-1.7423	0.95927	ENSG00000062822
-1.7421	0.95926	ENSG00000175155
1.742	0.040752	ENSG00000166889
1.7414	0.040806	ENSG00000130304
1.7413	0.040815	ENSG00000103723
-1.7411	0.95917	ENSG00000099904
-1.741	0.95915	ENSG00000135094
-1.7405	0.95912	ENSG00000204640
-1.7403	0.9591	ENSG00000099365
1.7399	0.040938	ENSG00000095596
-1.7398	0.95905	ENSG00000161031
-1.7388	0.95896	ENSG00000196935
1.7383	0.041079	ENSG00000089057
-1.7382	0.95891	ENSG00000140575
-1.7381	0.9589	ENSG00000180424
1.7381	0.041101	ENSG00000149305
1.738	0.041109	ENSG00000132604
1.7375	0.04115	ENSG00000181409
-1.7374	0.95884	ENSG00000149483
1.7373	0.041163	ENSG00000146376
1.7361	0.041271	ENSG00000176593
-1.736	0.95872	ENSG00000122180
1.7359	0.041292	ENSG00000214029
-1.7358	0.9587	ENSG00000162076
1.7358	0.041298	ENSG00000164303
-1.7356	0.95869	ENSG00000104967
1.7355	0.041324	ENSG00000151952
1.7355	0.041326	ENSG00000111843
1.7353	0.041342	ENSG00000144048
1.7353	0.041346	ENSG00000166748
-1.7347	0.9586	ENSG00000111845
1.7347	0.0414	ENSG00000168490
1.7342	0.041443	ENSG00000087884
-1.7337	0.95852	ENSG00000129951
-1.7335	0.9585	ENSG00000167774
1.7334	0.041517	ENSG00000177103
1.7329	0.041556	ENSG00000118496
1.7329	0.041556	ENSG00000100170
-1.7325	0.95841	ENSG00000180228
1.7324	0.041601	ENSG00000101752
-1.7323	0.95839	ENSG00000177706
1.7322	0.04162	ENSG00000177938
1.7318	0.041658	ENSG00000205929
1.7313	0.041696	ENSG00000181619
1.7309	0.041731	ENSG00000176204

-1.7303	0.95821	ENSG00000143498
1.7303	0.041788	ENSG00000114023
1.7282	0.041974	ENSG00000160691
1.7282	0.04198	ENSG00000105875
1.7282	0.04198	ENSG00000070010
-1.7278	0.95799	ENSG00000267855
-1.7275	0.95797	ENSG00000126870
-1.7274	0.95795	ENSG00000100290
-1.7267	0.95789	ENSG00000185972
1.7263	0.042143	ENSG00000164430
1.7263	0.042143	ENSG00000140199
1.7263	0.042151	ENSG00000149380
1.7261	0.042163	ENSG00000102890
-1.7259	0.95782	ENSG00000204344
1.7252	0.042248	ENSG00000167346
1.7252	0.042248	ENSG00000136100
1.7246	0.042304	ENSG00000127585
-1.7234	0.95759	ENSG00000204642
1.7231	0.042434	ENSG00000163357
-1.723	0.95756	ENSG00000120992
-1.7227	0.95753	ENSG00000137275
1.7225	0.04249	ENSG00000265690
-1.7218	0.95744	ENSG00000139445
1.7215	0.042578	ENSG00000172269
-1.7201	0.95729	ENSG00000084636
-1.72	0.95728	ENSG00000182973
1.72	0.042715	ENSG00000174564
-1.7199	0.95727	ENSG00000106541
1.7197	0.042741	ENSG00000181754
1.7195	0.042757	ENSG00000114349
1.7191	0.042794	ENSG00000171201
-1.7188	0.95718	ENSG00000172399
1.7184	0.04286	ENSG00000222046
1.7184	0.042863	ENSG00000270617
1.7184	0.042863	ENSG00000063241
1.7179	0.042904	ENSG00000221823
1.7179	0.042911	ENSG00000214188
1.7173	0.042965	ENSG00000135119
-1.717	0.95701	ENSG00000110243
-1.7168	0.957	ENSG00000153789
1.7165	0.043031	ENSG00000186803
-1.7164	0.95696	ENSG00000112877
1.7163	0.043053	ENSG00000160094
-1.7161	0.95693	ENSG00000198833
1.716	0.043079	ENSG00000112619
1.7159	0.043087	ENSG00000125122
1.7159	0.04309	ENSG00000174448
1.7158	0.043098	ENSG00000167767
1.7155	0.04313	ENSG00000135482
1.7152	0.043152	ENSG00000115685
-1.7149	0.95682	ENSG00000157470

1.7143	0.043232	ENSG00000107874
-1.7136	0.9567	ENSG00000112081
1.7135	0.043307	ENSG00000103888
1.7133	0.043325	ENSG00000096060
-1.7132	0.95666	ENSG00000171790
1.713	0.043353	ENSG00000198561
1.7128	0.043372	ENSG00000087237
1.7127	0.043381	ENSG00000111834
1.7122	0.043432	ENSG00000261717
1.7121	0.043438	ENSG00000155465
1.7121	0.043441	ENSG00000095002
1.7119	0.043457	ENSG00000197102
1.7117	0.043474	ENSG00000181163
1.7111	0.04353	ENSG00000159184
1.7109	0.043552	ENSG00000122068
1.7106	0.043575	ENSG00000212127
1.7105	0.043583	ENSG00000131738
-1.7101	0.95638	ENSG00000206043
1.7093	0.043693	ENSG00000172824
1.7092	0.043706	ENSG00000107618
-1.7091	0.95628	ENSG00000174903
1.7086	0.043761	ENSG00000185880
-1.7085	0.95623	ENSG00000198178
1.7082	0.043799	ENSG00000184381
1.7081	0.043809	ENSG00000273398
-1.7079	0.95617	ENSG00000243627
-1.7078	0.95616	ENSG00000248874
1.7078	0.043837	ENSG00000139625
-1.7077	0.95615	ENSG00000100003
1.7072	0.043895	ENSG00000055130
-1.7062	0.95602	ENSG00000123610
1.706	0.044003	ENSG00000177917
-1.7055	0.95595	ENSG00000100503
1.7054	0.044061	ENSG00000174370
1.7054	0.044064	ENSG00000009709
1.7049	0.044105	ENSG00000115993
-1.7048	0.95588	ENSG00000140682
1.7046	0.044139	ENSG00000168702
-1.7038	0.95579	ENSG00000170540
1.7037	0.044219	ENSG00000184571
1.7031	0.044274	ENSG00000145358
1.7027	0.044308	ENSG00000115828
1.7026	0.044321	ENSG00000158488
-1.7025	0.95567	ENSG00000166398
1.702	0.044375	ENSG00000157119
-1.7005	0.95549	ENSG00000166676
1.7001	0.044558	ENSG00000196228
1.6998	0.044587	ENSG00000149547
1.6996	0.044604	ENSG00000216895
-1.6986	0.9553	ENSG00000143552
-1.6984	0.95529	ENSG00000128609

1.6984	0.044716	ENSG00000176198
-1.6979	0.95524	ENSG00000173848
1.6975	0.044798	ENSG00000187796
-1.6966	0.95511	ENSG00000137802
1.6962	0.04492	ENSG00000111850
1.6956	0.044978	ENSG00000136866
-1.6955	0.95501	ENSG00000236027
1.695	0.045038	ENSG00000101204
1.6949	0.045043	ENSG00000156453
1.6946	0.045073	ENSG00000143297
1.6942	0.045111	ENSG00000166268
1.6942	0.045112	ENSG00000131143
1.6939	0.045143	ENSG00000230873
1.6937	0.045164	ENSG00000124831
-1.6931	0.95478	ENSG00000115008
1.6927	0.045261	ENSG00000272104
-1.6926	0.95473	ENSG00000115468
1.6925	0.045279	ENSG00000100949
1.692	0.045324	ENSG00000163041
1.6915	0.045367	ENSG00000163655
1.69	0.045512	ENSG00000183891
1.69	0.045514	ENSG00000162594
1.6897	0.045543	ENSG00000062582
-1.689	0.95439	ENSG00000254087
1.689	0.045609	ENSG00000096006
1.6885	0.045654	ENSG00000120071
1.6875	0.04575	ENSG00000136108
1.6873	0.045771	ENSG00000044115
-1.6869	0.95419	ENSG00000261272
1.6869	0.045807	ENSG00000142949
1.6865	0.045845	ENSG00000160695
-1.686	0.9541	ENSG00000168701
1.6857	0.045925	ENSG00000151304
1.6853	0.045966	ENSG00000166377
1.6853	0.045967	ENSG00000138771
1.6849	0.045999	ENSG00000226763
-1.6845	0.95396	ENSG00000167085
1.6845	0.046046	ENSG00000189068
1.6844	0.046053	ENSG00000154473
-1.6838	0.95389	ENSG00000186952
1.6837	0.046123	ENSG00000111786
1.6834	0.046151	ENSG00000188910
1.6831	0.046177	ENSG00000101773
1.6831	0.046179	ENSG00000101200
1.6827	0.046217	ENSG00000006715
1.6825	0.046232	ENSG00000149262
1.6822	0.046267	ENSG00000167840
-1.6821	0.95372	ENSG00000185651
-1.6818	0.9537	ENSG00000124143
1.6817	0.04631	ENSG00000091879
-1.6816	0.95368	ENSG00000204252

1.6815	0.046336	ENSG00000099968
1.6813	0.046355	ENSG00000144677
-1.6807	0.95359	ENSG00000137634
-1.6802	0.95354	ENSG00000119383
-1.6801	0.95353	ENSG00000131473
-1.6791	0.95344	ENSG00000187918
1.6791	0.046567	ENSG00000176438
1.6789	0.046586	ENSG00000105143
1.6786	0.04662	ENSG00000163660
-1.6784	0.95337	ENSG00000135390
1.6779	0.046679	ENSG00000102984
1.6779	0.046685	ENSG00000215717
1.6775	0.046722	ENSG00000163380
1.6769	0.046781	ENSG00000204822
1.6766	0.046807	ENSG00000167977
1.6766	0.046808	ENSG00000185294
1.6763	0.046839	ENSG00000185022
-1.6762	0.95315	ENSG00000174917
1.675	0.04697	ENSG00000174992
1.6749	0.046978	ENSG00000080031
-1.6748	0.95301	ENSG00000167757
-1.6748	0.95302	ENSG00000164258
1.6746	0.04701	ENSG00000204978
-1.6745	0.95298	ENSG00000100749
-1.6745	0.95298	ENSG00000187688
-1.6744	0.95298	ENSG00000174718
-1.674	0.95294	ENSG00000167394
1.674	0.047063	ENSG00000120088
1.6739	0.04707	ENSG00000179046
1.6737	0.047093	ENSG00000227839
1.6734	0.047126	ENSG00000175711
-1.6732	0.95286	ENSG00000233927
1.6727	0.047189	ENSG00000132357
1.6726	0.047207	ENSG00000174109
1.6723	0.047236	ENSG00000168140
1.6722	0.04724	ENSG00000185633
1.6722	0.04724	ENSG00000128322
1.672	0.047258	ENSG00000184530
1.6715	0.04731	ENSG00000256762
1.6712	0.047344	ENSG00000143207
1.6711	0.047346	ENSG00000170632
1.671	0.047358	ENSG00000122691
1.6707	0.047387	ENSG00000002919
1.6707	0.04739	ENSG00000125999
1.6707	0.047392	ENSG00000171487
1.6706	0.047401	ENSG00000131149
-1.6705	0.95259	ENSG00000204049
1.6697	0.047485	ENSG00000214415
1.6697	0.047485	ENSG00000164695
1.6697	0.047489	ENSG00000103035
1.6696	0.0475	ENSG00000268730

-1.6693	0.95248	ENSG00000155313
1.6691	0.047553	ENSG00000254997
-1.6687	0.95241	ENSG00000187498
1.6686	0.047596	ENSG00000140931
-1.6685	0.95239	ENSG00000005001
1.6682	0.047634	ENSG00000155876
1.6682	0.047643	ENSG00000249693
-1.6679	0.95233	ENSG00000268863
1.6675	0.047704	ENSG00000269700
1.6674	0.047721	ENSG00000158428
-1.667	0.95224	ENSG00000184221
-1.6658	0.95212	ENSG00000124574
-1.6657	0.95211	ENSG00000149792
-1.6654	0.95209	ENSG00000108666
1.6651	0.047951	ENSG00000139567
-1.6646	0.952	ENSG00000170085
1.6643	0.048025	ENSG00000167642
-1.6641	0.95195	ENSG00000008277
-1.6641	0.95196	ENSG00000137601
-1.6639	0.95194	ENSG00000171720
1.6638	0.048078	ENSG00000188316
1.6638	0.04808	ENSG00000158019
1.6635	0.048107	ENSG00000156395
1.6618	0.048272	ENSG00000197429
1.6617	0.04829	ENSG00000129566
1.6613	0.048331	ENSG00000157110
1.66	0.048458	ENSG00000068028
1.6595	0.048505	ENSG00000124370
-1.6588	0.95142	ENSG00000204688
1.6587	0.048587	ENSG00000186868
1.6583	0.048624	ENSG00000203872
1.6582	0.048643	ENSG00000186628
-1.6578	0.95132	ENSG00000088305
1.6578	0.048678	ENSG00000065457
-1.6576	0.9513	ENSG00000169105
1.6576	0.048695	ENSG00000147885
1.6569	0.048769	ENSG00000104964
1.6568	0.048779	ENSG00000197364
1.6567	0.048789	ENSG00000185304
1.6563	0.048831	ENSG00000100350
-1.6559	0.95113	ENSG00000214782
-1.6557	0.95111	ENSG00000244623
1.6557	0.048895	ENSG00000167617
-1.6555	0.95109	ENSG00000198704
-1.6552	0.95106	ENSG00000121361
1.6551	0.048948	ENSG00000119508
1.6551	0.048952	ENSG00000240694
1.655	0.048959	ENSG00000168267
1.6547	0.048997	ENSG00000125775
-1.6546	0.95099	ENSG00000170954
-1.6546	0.951	ENSG00000178222

1.6546	0.049005	ENSG00000167600
1.6545	0.049014	ENSG00000141956
1.6538	0.049085	ENSG00000132879
1.6534	0.049123	ENSG00000166329
1.6531	0.049159	ENSG00000006740
1.6525	0.049212	ENSG00000159625
1.6525	0.049216	ENSG00000005339
-1.6523	0.95076	ENSG00000056661
-1.6521	0.95075	ENSG00000204186
-1.6518	0.95071	ENSG00000070756
1.6518	0.049284	ENSG00000224470
1.6517	0.049301	ENSG00000136868
-1.6514	0.95067	ENSG00000166971
1.6513	0.049341	ENSG00000131233
1.6512	0.049349	ENSG00000143344
-1.6511	0.95064	ENSG00000181785
1.6508	0.049393	ENSG00000162438
1.6508	0.049393	ENSG00000116147
1.65	0.049471	ENSG00000189275
-1.6494	0.95047	ENSG00000272762
-1.6492	0.95044	ENSG00000174527
-1.6492	0.95044	ENSG00000128915
1.6492	0.049551	ENSG00000135637
1.6492	0.049558	ENSG00000185477
-1.649	0.95042	ENSG00000101224
1.649	0.049577	ENSG00000153815
1.6489	0.049586	ENSG00000075426
-1.6486	0.95039	ENSG00000178878
-1.6482	0.95035	ENSG00000204711
1.6482	0.049655	ENSG00000127554
1.6479	0.04969	ENSG00000188581
1.6478	0.049699	ENSG00000181924
-1.6476	0.95029	ENSG00000255394
-1.6474	0.95027	ENSG00000167210
1.6473	0.04975	ENSG00000135409
1.6473	0.049753	ENSG00000174808
-1.6471	0.95023	ENSG00000138483
-1.647	0.95023	ENSG00000107960
-1.6466	0.95018	ENSG00000092201
1.6464	0.049837	ENSG00000178279
-1.6463	0.95015	ENSG00000224586
-1.6461	0.95013	ENSG00000140416
-1.6459	0.95011	ENSG00000187066
1.6456	0.049919	ENSG00000099840
1.6452	0.049964	ENSG00000265817
-1.645	0.95002	ENSG00000173442
-1.6445	0.94996	ENSG00000215474
-1.6443	0.94994	ENSG00000186687
1.6443	0.050057	ENSG00000176444
1.6441	0.050074	ENSG00000187902
1.6441	0.05008	ENSG00000105926

1.6438	0.050107	ENSG00000115289
1.6438	0.050113	ENSG00000154438
-1.6437	0.94988	ENSG00000196263
1.6436	0.050127	ENSG00000127663
1.6435	0.050137	ENSG00000204852
1.643	0.050194	ENSG00000155792
1.6426	0.05023	ENSG00000163221
1.642	0.0503	ENSG00000105835
1.6419	0.050302	ENSG00000084764
1.6418	0.05032	ENSG00000186051
-1.6414	0.94965	ENSG00000092847
-1.641	0.9496	ENSG00000162891
1.6409	0.05041	ENSG00000133243
1.6409	0.050411	ENSG00000113070
-1.6408	0.94958	ENSG00000113851
1.6408	0.050423	ENSG00000159592
1.6407	0.050426	ENSG00000148180
1.6406	0.050438	ENSG00000180801
-1.6399	0.94949	ENSG00000141349
1.6398	0.050523	ENSG00000204070
1.6395	0.05055	ENSG00000188620
1.6391	0.050598	ENSG00000141504
-1.6389	0.94939	ENSG00000185955
1.6388	0.050628	ENSG00000121350
-1.6385	0.94934	ENSG00000156650
1.6384	0.050666	ENSG00000179477
1.6381	0.0507	ENSG00000111110
1.638	0.050714	ENSG00000138271
1.6375	0.050762	ENSG00000138031
1.6372	0.05079	ENSG00000146223
1.6372	0.050792	ENSG00000204001
1.6372	0.050798	ENSG00000109084
-1.6362	0.9491	ENSG00000186575
1.6357	0.05095	ENSG00000120075
1.6351	0.051012	ENSG00000167306
1.635	0.051021	ENSG00000258986
-1.6349	0.94897	ENSG00000197635
-1.6346	0.94893	ENSG00000106128
1.6346	0.051067	ENSG00000074964
1.6343	0.051099	ENSG00000167325
1.6339	0.051143	ENSG00000187726
1.6338	0.051153	ENSG00000130561
-1.6329	0.94875	ENSG00000117362
-1.6325	0.94872	ENSG00000145536
1.6325	0.051292	ENSG00000110375
1.6321	0.051327	ENSG00000156599
-1.6319	0.94865	ENSG00000168066
1.6318	0.051363	ENSG00000160051
-1.6317	0.94863	ENSG00000099284
1.6317	0.051376	ENSG00000125510
1.6311	0.051435	ENSG00000171314

-1.631	0.94856	ENSG00000083720
-1.6306	0.94852	ENSG00000102804
1.6306	0.051488	ENSG00000222022
-1.63	0.94845	ENSG00000166164
1.63	0.05155	ENSG00000077327
1.63	0.051554	ENSG00000143369
1.6297	0.05158	ENSG00000268482
1.6286	0.051696	ENSG00000148600
1.6286	0.051702	ENSG00000170236
1.6284	0.05172	ENSG00000163904
1.628	0.051766	ENSG00000167641
-1.6279	0.94823	ENSG00000069424
1.6277	0.05179	ENSG00000162408
-1.6273	0.94817	ENSG00000099817
1.6267	0.051902	ENSG00000001617
1.6253	0.052047	ENSG00000162377
1.6249	0.052097	ENSG00000171931
1.6247	0.052108	ENSG00000214114
-1.6243	0.94784	ENSG00000123933
1.6243	0.052152	ENSG00000111057
-1.6242	0.94783	ENSG00000151812
1.6241	0.05218	ENSG00000110514
1.6237	0.052224	ENSG00000221955
1.6236	0.052227	ENSG00000180834
-1.6234	0.94774	ENSG00000127511
1.6233	0.052259	ENSG00000069956
1.6232	0.052279	ENSG00000160752
-1.6231	0.94772	ENSG00000164023
-1.623	0.94771	ENSG00000172987
-1.6228	0.94768	ENSG00000109113
1.622	0.052399	ENSG00000117500
1.622	0.052399	ENSG00000172137
1.6216	0.052444	ENSG00000188263
-1.6212	0.94751	ENSG00000131375
-1.6211	0.9475	ENSG00000184881
1.6208	0.052525	ENSG00000212126
1.6208	0.052529	ENSG00000157103
1.6199	0.052632	ENSG00000168874
-1.6197	0.94735	ENSG00000005073
1.6194	0.052684	ENSG00000227729
-1.6191	0.94729	ENSG00000074966
-1.6191	0.94729	ENSG00000120215
1.6187	0.052759	ENSG00000112773
1.6186	0.052767	ENSG00000188816
-1.6185	0.94722	ENSG00000149809
1.6183	0.052804	ENSG00000106852
1.6178	0.052851	ENSG00000092964
1.6174	0.052896	ENSG00000069849
1.6167	0.052966	ENSG00000104998
1.6163	0.05302	ENSG00000173812
1.6161	0.053041	ENSG00000147535

1.6158	0.053066	ENSG00000163171
-1.6156	0.94691	ENSG00000130958
-1.6155	0.94689	ENSG00000141965
-1.6155	0.9469	ENSG00000171561
1.6155	0.053099	ENSG00000179564
1.615	0.053157	ENSG00000111647
-1.6148	0.94683	ENSG00000169181
-1.6147	0.94681	ENSG00000176937
1.6145	0.053209	ENSG00000136114
-1.6144	0.94678	ENSG00000196787
-1.6144	0.94678	ENSG00000132334
1.6141	0.053253	ENSG00000179044
1.614	0.053266	ENSG00000147485
1.614	0.053269	ENSG00000232196
-1.6139	0.94672	ENSG00000130595
-1.6135	0.94668	ENSG00000125898
1.6133	0.053341	ENSG00000115526
1.6132	0.053354	ENSG00000186047
-1.6129	0.94662	ENSG00000033011
1.6128	0.053395	ENSG00000184261
1.6126	0.05342	ENSG00000185220
1.6126	0.053421	ENSG00000185176
1.6123	0.053446	ENSG00000065320
1.6123	0.053449	ENSG00000139144
1.6122	0.053458	ENSG00000204021
-1.6116	0.94648	ENSG00000128191
1.6112	0.053573	ENSG00000143320
1.6108	0.053613	ENSG00000170537
-1.6106	0.94637	ENSG00000124019
1.6105	0.053644	ENSG00000124299
1.6103	0.053663	ENSG00000146216
1.6098	0.053723	ENSG00000117143
1.6089	0.053815	ENSG00000164816
1.6083	0.053888	ENSG00000164808
-1.6082	0.9461	ENSG00000173769
1.608	0.053916	ENSG00000180574
-1.6079	0.94607	ENSG00000240764
-1.6077	0.94604	ENSG00000163818
1.6074	0.053982	ENSG00000196878
1.607	0.054029	ENSG00000154025
1.6065	0.054077	ENSG00000087152
1.6065	0.054087	ENSG00000171759
-1.6064	0.94591	ENSG00000263020
-1.6059	0.94585	ENSG00000163060
1.6043	0.054325	ENSG00000188191
1.6037	0.054388	ENSG00000004142
1.6037	0.054393	ENSG00000085871
1.6028	0.054491	ENSG00000171861
1.6026	0.054513	ENSG00000013503
1.6025	0.054519	ENSG00000183023
1.6014	0.054645	ENSG00000128534

1.601	0.05469	ENSG00000115825
1.6009	0.054701	ENSG00000197540
1.6007	0.054717	ENSG00000143222
1.6006	0.054728	ENSG00000176349
1.6004	0.05476	ENSG00000213417
-1.6003	0.94523	ENSG00000078269
1.6001	0.054789	ENSG00000110583
1.6	0.054798	ENSG00000108375
1.6	0.054802	ENSG00000105851
1.5997	0.054833	ENSG00000076043
1.5993	0.054875	ENSG00000160685
-1.5991	0.9451	ENSG00000163132
1.5989	0.054923	ENSG00000134954
1.5986	0.054959	ENSG00000244754
-1.5983	0.94501	ENSG00000150093
1.5977	0.055052	ENSG00000170485
1.5977	0.055053	ENSG00000178602
1.5972	0.055114	ENSG00000048342
-1.5969	0.94486	ENSG00000171502
-1.5969	0.94486	ENSG00000154380
1.5968	0.055155	ENSG00000198885
1.5967	0.055167	ENSG00000116985
1.5967	0.055171	ENSG00000178965
-1.5966	0.94482	ENSG00000164334
1.5955	0.055305	ENSG00000158786
-1.5945	0.94458	ENSG00000112379
-1.5945	0.94459	ENSG00000198743
-1.5945	0.94459	ENSG00000272962
1.5943	0.05543	ENSG00000167165
-1.5941	0.94454	ENSG00000103932
1.5933	0.055546	ENSG00000145147
-1.5929	0.94441	ENSG00000122863
-1.5925	0.94437	ENSG00000185585
1.5923	0.055656	ENSG00000103056
-1.5922	0.94433	ENSG00000189325
1.5922	0.055665	ENSG00000103460
1.5922	0.055669	ENSG00000167962
-1.5912	0.94422	ENSG00000172037
1.5912	0.055786	ENSG00000163518
-1.5911	0.94421	ENSG00000111241
1.5911	0.055795	ENSG00000159214
1.59	0.055914	ENSG00000141384
-1.5897	0.94405	ENSG00000258289
-1.5894	0.94401	ENSG00000125304
-1.5893	0.944	ENSG00000172489
1.5889	0.056044	ENSG00000137288
1.5877	0.056173	ENSG00000081026
-1.5876	0.94381	ENSG00000164161
-1.5875	0.9438	ENSG00000181626
1.5874	0.056213	ENSG00000137875
-1.5873	0.94378	ENSG00000033050

1.5869	0.056267	ENSG00000112335
1.5868	0.056274	ENSG00000095564
-1.5858	0.94361	ENSG00000222040
1.5855	0.056427	ENSG00000205442
1.5853	0.056455	ENSG00000150712
-1.5846	0.94347	ENSG00000163453
1.5845	0.056536	ENSG00000114686
-1.5844	0.94345	ENSG00000241962
1.5844	0.056552	ENSG00000144034
1.5844	0.056553	ENSG00000105650
1.5839	0.056607	ENSG00000171533
-1.5838	0.94338	ENSG00000144785
-1.5838	0.94339	ENSG00000169189
-1.5836	0.94336	ENSG00000177156
1.5831	0.056695	ENSG00000185479
-1.5828	0.94327	ENSG00000189308
-1.5828	0.94327	ENSG00000021355
1.5823	0.05679	ENSG00000169851
1.5823	0.056794	ENSG00000137509
1.5814	0.056897	ENSG00000175395
1.5812	0.056922	ENSG00000112584
-1.5808	0.94303	ENSG00000167360
-1.5806	0.94302	ENSG00000164600
-1.5803	0.94298	ENSG00000164209
1.5802	0.057027	ENSG00000134201
1.5801	0.057037	ENSG00000187010
-1.5799	0.94294	ENSG00000070182
-1.5792	0.94286	ENSG00000154642
1.5783	0.057247	ENSG00000175040
-1.5782	0.94274	ENSG00000258839
1.5781	0.057268	ENSG00000177800
-1.5779	0.9427	ENSG00000255819
1.5778	0.057305	ENSG00000164815
1.5777	0.057319	ENSG00000152620
1.5774	0.057357	ENSG00000160007
1.577	0.057395	ENSG00000212657
1.5768	0.057418	ENSG00000164830
-1.5767	0.94257	ENSG00000164053
-1.5765	0.94255	ENSG00000176153
1.5762	0.05749	ENSG00000056097
-1.5754	0.94241	ENSG00000172318
-1.5754	0.94242	ENSG00000137267
-1.5753	0.9424	ENSG00000237330
-1.5753	0.9424	ENSG00000131795
-1.575	0.94237	ENSG00000213020
1.5746	0.057672	ENSG00000153310
1.5745	0.057688	ENSG00000092607
1.574	0.057745	ENSG00000120328
1.5738	0.057762	ENSG00000070770
-1.5736	0.94221	ENSG00000173598
-1.5726	0.94209	ENSG00000255823

-1.5726	0.9421	ENSG00000136754
1.5726	0.057909	ENSG00000160781
1.5724	0.057924	ENSG00000198055
1.5724	0.05793	ENSG00000176396
1.5723	0.057936	ENSG00000233041
1.5718	0.057997	ENSG00000110619
1.5714	0.05804	ENSG00000108700
-1.5713	0.94195	ENSG00000130766
1.5709	0.0581	ENSG00000212725
1.5707	0.058131	ENSG00000189306
1.5705	0.058147	ENSG00000186792
-1.5703	0.94182	ENSG00000148429
1.57	0.058211	ENSG00000166069
-1.5699	0.94178	ENSG00000127824
-1.5698	0.94177	ENSG00000187118
1.5697	0.058246	ENSG00000090382
-1.5696	0.94174	ENSG00000204209
1.5696	0.058258	ENSG00000197442
1.5693	0.058285	ENSG00000144771
1.5691	0.058316	ENSG00000129932
1.5688	0.058349	ENSG00000256043
-1.5686	0.94163	ENSG00000173918
1.5683	0.058402	ENSG00000118096
1.568	0.058435	ENSG00000177570
-1.5679	0.94154	ENSG00000117523
-1.5679	0.94155	ENSG00000149532
-1.5675	0.94151	ENSG00000121716
-1.5674	0.94149	ENSG00000105605
1.567	0.05856	ENSG00000134152
-1.5668	0.94142	ENSG00000225781
1.5668	0.058586	ENSG00000139675
1.5665	0.058617	ENSG00000154146
-1.565	0.9412	ENSG00000105393
1.5647	0.058829	ENSG00000152348
-1.5641	0.9411	ENSG00000166396
1.5641	0.058894	ENSG00000178033
1.5635	0.058968	ENSG00000151164
-1.5628	0.94095	ENSG00000151208
-1.5624	0.94091	ENSG00000150991
1.5622	0.059122	ENSG00000144381
-1.5618	0.94083	ENSG00000099994
1.5618	0.059166	ENSG00000204856
1.5617	0.059181	ENSG00000167769
-1.5616	0.94081	ENSG00000170044
1.5612	0.059238	ENSG00000124126
1.5608	0.059288	ENSG00000254901
-1.5607	0.9407	ENSG00000085662
-1.5607	0.9407	ENSG00000197579
-1.5604	0.94067	ENSG00000175414
-1.5601	0.94064	ENSG00000266728
1.56	0.05938	ENSG00000104885

1.5597	0.059412	ENSG00000167257
1.5592	0.059475	ENSG00000139287
1.5592	0.059479	ENSG00000139117
1.5591	0.059492	ENSG00000161896
-1.5588	0.94048	ENSG00000073067
-1.5583	0.94042	ENSG00000113100
1.5578	0.059642	ENSG00000131116
-1.5568	0.94024	ENSG00000204590
-1.5567	0.94023	ENSG00000110777
1.5567	0.059771	ENSG00000106803
1.5562	0.059828	ENSG00000151033
1.556	0.05985	ENSG00000184232
1.5559	0.059869	ENSG00000081189
1.5559	0.059869	ENSG00000125878
1.5557	0.059887	ENSG00000170903
1.5555	0.059909	ENSG00000172967
-1.5549	0.94001	ENSG00000108984
-1.5547	0.93999	ENSG00000142675
-1.5544	0.93996	ENSG00000248167
1.5543	0.060057	ENSG00000111860
1.5535	0.060157	ENSG00000176246
1.5532	0.060188	ENSG00000171428
1.551	0.060452	ENSG00000164509
1.5509	0.060464	ENSG00000130287
1.5507	0.060486	ENSG00000185313
1.5507	0.060486	ENSG00000152591
-1.5506	0.9395	ENSG00000125810
1.5504	0.060526	ENSG00000161609
1.5501	0.060558	ENSG00000132970
-1.5498	0.93941	ENSG00000242616
-1.5496	0.93938	ENSG00000129450
1.5494	0.060645	ENSG00000198746
1.5493	0.060649	ENSG00000143387
-1.5489	0.9393	ENSG00000091140
1.5489	0.060698	ENSG00000117569
-1.5485	0.93925	ENSG00000142945
-1.5483	0.93922	ENSG00000167383
1.5477	0.060847	ENSG00000006059
1.5474	0.060889	ENSG00000168269
-1.5467	0.93903	ENSG00000111716
-1.5467	0.93904	ENSG00000225362
1.5455	0.061112	ENSG00000187955
1.5446	0.061226	ENSG00000173124
1.5445	0.061233	ENSG00000159228
1.5443	0.061258	ENSG00000204983
1.544	0.061296	ENSG00000138709
-1.5439	0.93869	ENSG00000259803
1.5439	0.061308	ENSG00000171302
1.5439	0.061312	ENSG00000069712
1.5437	0.061332	ENSG00000131944
-1.5436	0.93866	ENSG00000142173

1.5434	0.061368	ENSG00000116497
-1.5428	0.93856	ENSG00000151575
-1.5427	0.93855	ENSG00000169629
1.5424	0.06149	ENSG00000008118
-1.5421	0.93847	ENSG00000100632
1.542	0.061536	ENSG00000165626
-1.5419	0.93845	ENSG00000111536
-1.5418	0.93844	ENSG00000078304
1.5418	0.061566	ENSG00000186487
-1.5415	0.9384	ENSG00000178636
1.541	0.061655	ENSG00000134240
1.5409	0.061676	ENSG00000196832
1.5403	0.061746	ENSG00000196557
1.5402	0.061751	ENSG00000205883
1.54	0.061782	ENSG00000137266
-1.5399	0.93821	ENSG00000173728
-1.5395	0.93816	ENSG00000158887
1.5395	0.06184	ENSG00000147596
1.5395	0.061844	ENSG00000169435
1.5394	0.061851	ENSG00000144021
1.5392	0.061883	ENSG00000118503
1.539	0.061907	ENSG00000073754
1.5387	0.061938	ENSG00000264364
1.5382	0.061997	ENSG00000273171
1.5379	0.062039	ENSG00000184113
1.5377	0.062067	ENSG00000163611
-1.5376	0.93793	ENSG00000131969
1.5375	0.06208	ENSG00000143379
1.5373	0.062108	ENSG00000169371
1.5369	0.062154	ENSG00000168137
-1.5366	0.93781	ENSG00000166311
1.5363	0.062234	ENSG00000163354
-1.5361	0.93774	ENSG00000173548
1.536	0.062269	ENSG00000143158
-1.5356	0.93768	ENSG00000183072
1.5354	0.062341	ENSG00000120278
1.5353	0.062354	ENSG00000132275
1.5347	0.062425	ENSG00000183723
1.5347	0.062428	ENSG00000135842
1.5342	0.062491	ENSG00000176904
-1.5341	0.9375	ENSG00000149476
-1.5336	0.93743	ENSG00000125967
-1.5333	0.9374	ENSG00000177300
-1.5323	0.93727	ENSG00000177548
1.5319	0.06277	ENSG00000182149
-1.5317	0.9372	ENSG00000249008
1.5317	0.062802	ENSG00000267206
-1.5316	0.93719	ENSG00000101405
-1.5316	0.93719	ENSG00000155307
1.5316	0.062805	ENSG00000162733
1.5314	0.062837	ENSG00000267988

-1.5313	0.93715	ENSG00000164190
-1.5311	0.93713	ENSG00000090447
1.531	0.062883	ENSG00000165202
-1.5309	0.9371	ENSG00000169972
1.5308	0.062906	ENSG00000105767
1.5306	0.062932	ENSG00000184730
-1.5304	0.93704	ENSG00000162736
-1.5303	0.93703	ENSG00000178125
1.5303	0.062966	ENSG00000248710
-1.5301	0.937	ENSG00000174021
-1.5301	0.937	ENSG00000188483
-1.5301	0.93701	ENSG00000161634
1.5301	0.063	ENSG00000244474
1.5299	0.063018	ENSG00000136110
1.5298	0.063036	ENSG00000148737
1.5297	0.063042	ENSG00000101574
-1.5287	0.93683	ENSG00000253250
1.5287	0.063169	ENSG00000124767
1.5286	0.063185	ENSG00000203910
-1.5284	0.93679	ENSG00000167397
1.5276	0.063306	ENSG00000188818
1.5275	0.063319	ENSG00000106328
1.5272	0.063351	ENSG00000225885
1.5272	0.063361	ENSG00000173626
1.5261	0.063495	ENSG00000197386
1.526	0.063501	ENSG00000120526
-1.5259	0.93649	ENSG00000242419
1.5253	0.063597	ENSG00000109065
1.5249	0.063647	ENSG00000105880
-1.5241	0.93626	ENSG00000130812
-1.5237	0.9362	ENSG00000189164
-1.5236	0.9362	ENSG00000171914
-1.5235	0.93619	ENSG00000103966
-1.5231	0.93613	ENSG00000110665
1.5231	0.063865	ENSG00000186827
1.5228	0.063899	ENSG00000148225
-1.5224	0.93604	ENSG00000111639
-1.5224	0.93605	ENSG00000111674
1.5224	0.063953	ENSG00000157765
1.5222	0.063982	ENSG00000104312
1.5213	0.064088	ENSG00000106367
1.5212	0.064109	ENSG00000149021
-1.5209	0.93585	ENSG00000119125
-1.5207	0.93584	ENSG00000188177
-1.5203	0.93578	ENSG00000162231
-1.5199	0.93573	ENSG00000110315
1.5198	0.064276	ENSG00000083807
1.5197	0.064288	ENSG00000176165
-1.5196	0.9357	ENSG00000100721
1.5196	0.064301	ENSG00000148926
1.5195	0.064313	ENSG00000008256

1.5195	0.064313	ENSG00000136931
1.5192	0.064357	ENSG00000171448
1.519	0.064383	ENSG00000203780
-1.5187	0.93558	ENSG00000179058
-1.5184	0.93554	ENSG00000221968
1.5182	0.064484	ENSG00000198131
1.5181	0.064493	ENSG00000145247
1.5178	0.064534	ENSG00000156411
1.5178	0.064534	ENSG00000159111
1.5175	0.064576	ENSG00000187980
-1.5172	0.93539	ENSG00000204311
1.5172	0.064608	ENSG00000081148
-1.517	0.93537	ENSG00000108788
1.517	0.064631	ENSG00000151702
1.5169	0.064643	ENSG00000196517
-1.5168	0.93534	ENSG00000144567
1.5167	0.064674	ENSG00000115165
1.5163	0.06472	ENSG00000196862
-1.5162	0.93526	ENSG00000144369
-1.5154	0.93516	ENSG00000011021
-1.5149	0.93511	ENSG00000215041
-1.5146	0.93506	ENSG00000085433
-1.5144	0.93504	ENSG00000196588
1.5137	0.065057	ENSG00000157343
-1.5136	0.93494	ENSG00000231145
1.5136	0.065067	ENSG00000189159
1.5136	0.065069	ENSG00000107593
1.5135	0.06508	ENSG00000114315
-1.5128	0.93484	ENSG00000140279
1.5128	0.06517	ENSG00000181449
1.5127	0.065183	ENSG00000133026
-1.5118	0.93471	ENSG00000010626
-1.5117	0.9347	ENSG00000108242
-1.5117	0.9347	ENSG00000156218
-1.5115	0.93467	ENSG00000196104
1.5115	0.065325	ENSG00000168748
1.5115	0.065337	ENSG00000159588
1.511	0.065391	ENSG00000205531
-1.5107	0.93456	ENSG00000197837
1.5104	0.065473	ENSG00000151962
1.51	0.065516	ENSG00000165494
-1.5099	0.93447	ENSG00000171222
1.5098	0.065543	ENSG00000149474
1.5097	0.065561	ENSG00000120370
-1.5096	0.93443	ENSG00000267508
1.5096	0.065568	ENSG00000111229
-1.5094	0.9344	ENSG00000170890
-1.5093	0.93439	ENSG00000105197
-1.5091	0.93436	ENSG00000198074
1.5085	0.065707	ENSG00000138670
-1.5083	0.93426	ENSG00000142733

-1.5083	0.93426	ENSG00000174206
1.5076	0.065834	ENSG00000088451
1.5072	0.065883	ENSG00000170727
-1.507	0.9341	ENSG00000181371
1.5069	0.065912	ENSG00000166710
1.5064	0.065988	ENSG00000096696
-1.5061	0.93398	ENSG00000137841
1.506	0.06603	ENSG00000213563
-1.5059	0.93396	ENSG00000178802
1.5058	0.066053	ENSG00000171471
-1.5057	0.93393	ENSG00000133597
1.5057	0.066073	ENSG00000136636
1.5055	0.066102	ENSG00000130182
-1.5054	0.93389	ENSG00000118322
1.5054	0.066111	ENSG00000171303
-1.5051	0.93385	ENSG00000136514
-1.505	0.93384	ENSG00000134873
-1.505	0.93384	ENSG00000141255
1.5048	0.066182	ENSG00000087191
-1.5047	0.93379	ENSG00000165204
-1.5043	0.93375	ENSG00000204435
-1.5043	0.93375	ENSG00000111269
1.5043	0.066254	ENSG00000111077
-1.5042	0.93374	ENSG00000142065
1.5041	0.066274	ENSG00000106236
-1.5038	0.93369	ENSG00000167395
1.5034	0.066363	ENSG00000109920
-1.5032	0.9336	ENSG00000106714
1.5031	0.066408	ENSG00000004838
1.503	0.066425	ENSG00000130528
-1.5026	0.93354	ENSG00000075043
1.5024	0.066496	ENSG00000177627
1.5022	0.066517	ENSG00000168566
-1.5019	0.93344	ENSG00000029364
1.5019	0.066557	ENSG00000123415
1.5019	0.06656	ENSG00000197050
-1.5015	0.93339	ENSG00000204394
-1.5008	0.9333	ENSG00000011332
1.5006	0.06673	ENSG00000164751
1.5004	0.066759	ENSG00000113810
1.5002	0.066778	ENSG00000189180
1.5	0.066807	ENSG00000215912
1.4998	0.066836	ENSG00000110693
-1.4997	0.93316	ENSG00000172551
-1.4994	0.93311	ENSG00000173157
-1.4992	0.93308	ENSG00000054267
1.4992	0.066904	ENSG00000177363
1.4991	0.066925	ENSG00000215644
-1.4984	0.93299	ENSG00000137648
1.4976	0.067119	ENSG00000118816
1.4976	0.067121	ENSG00000159899

1.4974	0.06715	ENSG00000184058
-1.4963	0.93272	ENSG00000171840
1.4963	0.06729	ENSG00000119121
-1.4961	0.93269	ENSG00000178381
1.4961	0.067317	ENSG00000139656
-1.4956	0.93263	ENSG00000171368
1.4953	0.067425	ENSG00000196169
-1.4952	0.93257	ENSG00000069275
-1.4941	0.93243	ENSG00000125823
-1.494	0.93241	ENSG00000054967
1.4938	0.067608	ENSG00000167378
1.4938	0.067615	ENSG00000179528
-1.4933	0.93232	ENSG00000106031
1.4933	0.067674	ENSG00000146247
-1.4926	0.93222	ENSG00000180383
1.4924	0.067792	ENSG00000197586
1.491	0.067983	ENSG00000164828
1.4907	0.068023	ENSG00000204677
1.4906	0.068039	ENSG00000128245
-1.4905	0.93195	ENSG00000113648
1.4904	0.068053	ENSG00000171291
1.4904	0.068065	ENSG00000142698
1.4903	0.068076	ENSG00000157613
1.4901	0.068096	ENSG00000120008
1.49	0.068107	ENSG00000187954
1.4898	0.068141	ENSG00000148400
1.4896	0.068171	ENSG00000119661
1.4891	0.068234	ENSG00000164164
1.489	0.06824	ENSG00000065809
1.489	0.068247	ENSG00000048649
1.4889	0.068256	ENSG00000145526
1.4888	0.068276	ENSG00000004777
-1.4884	0.93168	ENSG00000262874
1.4881	0.068369	ENSG00000171121
1.488	0.068377	ENSG00000134686
-1.4878	0.9316	ENSG00000188343
1.4878	0.068408	ENSG00000165810
1.4877	0.068418	ENSG00000128951
1.4876	0.068431	ENSG00000005194
-1.4863	0.9314	ENSG00000204544
1.4863	0.068601	ENSG00000082641
-1.486	0.93136	ENSG00000149823
1.4856	0.068692	ENSG00000072518
1.4855	0.0687	ENSG00000167476
-1.485	0.93123	ENSG00000204439
-1.4848	0.9312	ENSG00000131788
1.4848	0.068792	ENSG00000147614
1.4845	0.068836	ENSG00000111371
-1.4842	0.93112	ENSG00000165805
-1.4842	0.93112	ENSG00000105675
1.4842	0.068875	ENSG00000258223

1.4841	0.068893	ENSG00000143870
-1.484	0.9311	ENSG00000165782
-1.4838	0.93107	ENSG00000179240
1.4838	0.068929	ENSG00000119574
1.4837	0.068941	ENSG00000160505
1.4835	0.068965	ENSG00000107371
1.4835	0.068974	ENSG00000185122
-1.4833	0.93101	ENSG00000182938
-1.4832	0.93099	ENSG00000107295
-1.483	0.93096	ENSG00000101194
1.4825	0.069099	ENSG00000148660
-1.4823	0.93087	ENSG00000158079
-1.4821	0.93085	ENSG00000152484
1.4821	0.069153	ENSG00000186143
-1.4817	0.93079	ENSG00000011304
1.4817	0.069207	ENSG00000185338
1.4815	0.069238	ENSG00000101096
-1.4814	0.93076	ENSG00000174611
-1.4807	0.93065	ENSG00000172007
1.4806	0.069362	ENSG00000152766
-1.4803	0.9306	ENSG00000175766
-1.4803	0.93061	ENSG00000166387
-1.4801	0.93057	ENSG00000156076
1.4801	0.069423	ENSG00000011638
-1.4798	0.93053	ENSG00000177889
1.4798	0.069462	ENSG00000139597
1.4798	0.069466	ENSG00000269514
-1.4797	0.93052	ENSG00000131470
1.4797	0.069483	ENSG00000198722
1.4795	0.069501	ENSG00000118482
1.4795	0.069502	ENSG00000166428
-1.4794	0.93049	ENSG00000186350
-1.479	0.93043	ENSG00000108688
-1.4787	0.93039	ENSG00000170786
1.4787	0.069616	ENSG00000078579
1.4783	0.069662	ENSG00000265818
1.4783	0.069664	ENSG00000132823
-1.4782	0.93033	ENSG00000213782
1.4778	0.069734	ENSG00000272333
-1.4777	0.93025	ENSG00000114487
-1.4777	0.93026	ENSG00000240184
1.4774	0.069787	ENSG00000162650
1.4774	0.069788	ENSG00000109062
-1.4773	0.9302	ENSG00000183793
1.4773	0.069794	ENSG00000089091
1.4773	0.069795	ENSG00000169154
1.4772	0.069805	ENSG00000171522
1.4771	0.069829	ENSG00000122986
1.4769	0.069857	ENSG00000243317
1.4768	0.06987	ENSG00000180509
-1.4766	0.93011	ENSG00000249751

1.4766	0.069886	ENSG00000090989
1.4763	0.069932	ENSG00000108604
1.4762	0.069943	ENSG00000153060
1.476	0.069973	ENSG00000249481
1.4754	0.070046	ENSG00000214999
-1.4753	0.92993	ENSG00000259471
1.475	0.070111	ENSG00000155755
1.4747	0.070141	ENSG00000163344
1.4747	0.070145	ENSG00000196542
-1.4743	0.9298	ENSG00000240747
1.4743	0.070197	ENSG00000183077
1.4742	0.070212	ENSG00000186352
-1.474	0.92976	ENSG00000151247
1.4739	0.07026	ENSG00000198075
-1.4734	0.92968	ENSG00000169221
1.4732	0.070346	ENSG00000228804
1.4732	0.070352	ENSG00000137500
1.473	0.070375	ENSG00000099942
-1.4724	0.92954	ENSG00000256646
1.4721	0.070495	ENSG00000106459
1.4719	0.070521	ENSG00000133059
1.4719	0.070526	ENSG00000267114
-1.4718	0.92946	ENSG00000182950
-1.4715	0.92942	ENSG00000171517
-1.471	0.92936	ENSG00000107372
-1.471	0.92936	ENSG00000088325
-1.4707	0.92931	ENSG00000142224
1.4705	0.070711	ENSG00000113638
1.4702	0.070755	ENSG00000167680
1.4701	0.070771	ENSG00000183773
1.4701	0.070772	ENSG00000103257
-1.4698	0.92919	ENSG00000243646
-1.4695	0.92915	ENSG00000184117
1.4694	0.070861	ENSG00000144591
1.4687	0.070954	ENSG00000180336
1.4686	0.07097	ENSG00000165383
1.4685	0.070982	ENSG00000022840
-1.4681	0.92896	ENSG00000117400
-1.4674	0.92887	ENSG00000130940
-1.4673	0.92885	ENSG00000261130
-1.4673	0.92885	ENSG00000087076
1.4673	0.071143	ENSG00000136839
1.4671	0.071172	ENSG00000148584
1.4671	0.071177	ENSG00000269515
-1.467	0.92881	ENSG00000187186
-1.4669	0.9288	ENSG00000182636
1.4669	0.071195	ENSG00000188223
1.4668	0.07121	ENSG00000254647
-1.4667	0.92877	ENSG00000112282
-1.4665	0.92874	ENSG00000150051
-1.4664	0.92873	ENSG00000141401

-1.4663	0.92871	ENSG00000105141
1.4663	0.071279	ENSG00000037637
1.4657	0.071368	ENSG00000108244
-1.4656	0.92862	ENSG00000172354
1.4656	0.071373	ENSG00000100150
1.4656	0.071384	ENSG00000203876
-1.4655	0.92861	ENSG00000161944
-1.4651	0.92855	ENSG00000059769
-1.4651	0.92855	ENSG00000244115
1.4651	0.071447	ENSG00000118242
-1.465	0.92854	ENSG00000137947
1.4648	0.071485	ENSG00000205930
1.4644	0.071542	ENSG00000144868
-1.4639	0.92839	ENSG00000169344
1.4639	0.071608	ENSG00000260238
1.4639	0.071608	ENSG00000160783
1.4639	0.071613	ENSG00000166848
-1.4633	0.92831	ENSG00000119699
1.4633	0.071686	ENSG00000266173
-1.4631	0.92829	ENSG00000105321
1.4631	0.071713	ENSG00000159596
1.4626	0.071784	ENSG00000092295
1.4626	0.071789	ENSG00000043462
-1.4625	0.9282	ENSG00000074771
1.4619	0.071884	ENSG00000139223
-1.4612	0.92802	ENSG00000104980
1.4611	0.071996	ENSG00000169762
-1.461	0.92799	ENSG00000183644
1.4608	0.072038	ENSG00000115944
1.4603	0.072109	ENSG00000142459
1.4602	0.07212	ENSG00000177283
1.4601	0.072125	ENSG00000121446
1.4594	0.072221	ENSG00000170627
1.4593	0.072243	ENSG00000134248
-1.4591	0.92773	ENSG00000136052
1.4591	0.072272	ENSG00000104960
1.459	0.072279	ENSG00000162591
-1.4588	0.92769	ENSG00000029534
-1.4585	0.92764	ENSG00000188573
-1.4583	0.92762	ENSG00000166869
1.4583	0.072383	ENSG00000100802
1.458	0.072418	ENSG00000109906
1.4578	0.072447	ENSG00000104164
-1.4572	0.92747	ENSG00000107186
-1.4572	0.92748	ENSG00000204290
-1.4571	0.92746	ENSG00000099999
1.457	0.072565	ENSG00000147439
-1.4568	0.92742	ENSG00000164022
1.4564	0.072638	ENSG00000186714
-1.4559	0.92729	ENSG00000164081
-1.4558	0.92727	ENSG00000124208

-1.4558	0.92727	ENSG00000240849
-1.4555	0.92724	ENSG00000187612
1.4552	0.072808	ENSG00000143155
-1.4551	0.92717	ENSG00000214265
1.4548	0.072864	ENSG00000166685
1.4546	0.072896	ENSG00000119523
-1.4543	0.92706	ENSG00000145506
-1.454	0.92703	ENSG00000212122
1.4536	0.073035	ENSG00000132196
-1.4535	0.92696	ENSG00000183463
1.4535	0.073045	ENSG00000152670
1.4533	0.073068	ENSG00000101751
-1.4531	0.9269	ENSG00000183542
-1.4531	0.9269	ENSG00000167183
1.4531	0.073098	ENSG00000178199
1.4531	0.073099	ENSG00000120314
1.453	0.073119	ENSG00000132780
1.4527	0.073159	ENSG00000115806
1.4527	0.07316	ENSG00000126251
1.4525	0.073175	ENSG00000204193
1.4525	0.073175	ENSG00000089818
1.452	0.073252	ENSG00000129521
1.4519	0.073266	ENSG00000198353
1.4511	0.07337	ENSG00000206536
1.4507	0.073428	ENSG00000203301
-1.4505	0.92654	ENSG00000117862
1.4504	0.073473	ENSG00000172458
-1.4502	0.9265	ENSG00000129158
1.4502	0.073503	ENSG00000115946
-1.4501	0.92649	ENSG00000053328
1.4498	0.073551	ENSG00000248540
1.4492	0.073639	ENSG00000164039
1.449	0.073671	ENSG00000004846
1.4489	0.073676	ENSG00000103047
1.4488	0.07369	ENSG00000140990
1.4487	0.073709	ENSG00000182903
1.4487	0.07371	ENSG00000164944
-1.4486	0.92627	ENSG00000198856
1.4485	0.07374	ENSG00000164162
1.4481	0.07379	ENSG00000171495
1.4479	0.073816	ENSG00000110696
1.4477	0.073855	ENSG00000180992
-1.4475	0.92613	ENSG00000168067
-1.4474	0.9261	ENSG00000156150
-1.4471	0.92607	ENSG00000101546
-1.4469	0.92604	ENSG00000141934
-1.4465	0.92599	ENSG00000258873
1.4462	0.074055	ENSG00000111728
1.446	0.074092	ENSG00000175265
1.4455	0.07416	ENSG00000049449
-1.4453	0.92581	ENSG00000110274

1.4451	0.074208	ENSG00000122585
-1.4449	0.92576	ENSG00000110200
1.4449	0.074236	ENSG00000170289
1.4448	0.074256	ENSG00000102908
-1.4447	0.92573	ENSG00000179833
1.4447	0.074269	ENSG00000163872
-1.4446	0.92571	ENSG00000181693
1.4443	0.074322	ENSG00000171735
1.4443	0.074323	ENSG00000100297
1.4443	0.074328	ENSG00000178814
-1.4441	0.92565	ENSG00000164961
-1.444	0.92563	ENSG00000132485
-1.4435	0.92555	ENSG00000273045
-1.4435	0.92556	ENSG00000126882
1.4432	0.074482	ENSG00000121634
1.4431	0.074502	ENSG00000185046
-1.4428	0.92546	ENSG00000158481
1.4427	0.074553	ENSG00000113758
-1.4423	0.92539	ENSG00000015171
1.4423	0.074609	ENSG00000218739
1.4422	0.074622	ENSG00000185359
-1.442	0.92535	ENSG00000115361
1.442	0.074649	ENSG00000180644
1.4418	0.074679	ENSG00000164418
-1.4416	0.9253	ENSG00000158161
1.4414	0.074737	ENSG00000187151
1.4414	0.074741	ENSG00000166441
-1.4412	0.92523	ENSG00000132471
1.4412	0.074765	ENSG00000077147
1.4412	0.07477	ENSG00000013288
-1.441	0.92521	ENSG00000186825
-1.4408	0.92518	ENSG00000172725
1.4408	0.074818	ENSG00000137502
1.4406	0.074848	ENSG00000181852
1.4405	0.07487	ENSG00000100731
1.4404	0.074882	ENSG00000143028
1.4404	0.074883	ENSG00000135336
-1.4399	0.92505	ENSG00000218416
1.4397	0.074975	ENSG00000109083
1.4397	0.07498	ENSG00000255974
-1.4396	0.92501	ENSG00000135362
-1.4394	0.92498	ENSG00000100652
-1.4393	0.92496	ENSG00000007001
1.4389	0.075093	ENSG00000196242
-1.4386	0.92487	ENSG00000121764
1.4381	0.075197	ENSG00000143374
1.438	0.075222	ENSG00000244537
-1.4378	0.92475	ENSG00000221882
-1.4376	0.92473	ENSG00000182324
-1.4373	0.92468	ENSG00000204616
-1.4372	0.92467	ENSG00000187848

1.4372	0.07533	ENSG00000139921
-1.4369	0.92462	ENSG00000077522
-1.4363	0.92455	ENSG00000175104
1.4362	0.075479	ENSG00000163125
-1.4354	0.92441	ENSG00000139211
1.4353	0.075599	ENSG00000138134
1.4345	0.07571	ENSG00000116106
1.4343	0.07574	ENSG00000268301
-1.4338	0.92419	ENSG00000167220
-1.4337	0.92417	ENSG00000137809
-1.4335	0.92414	ENSG00000167074
1.4332	0.075895	ENSG00000010379
-1.4329	0.92405	ENSG00000151789
1.4328	0.075958	ENSG00000138594
1.4327	0.075976	ENSG00000118094
1.4326	0.075983	ENSG00000204304
1.432	0.076065	ENSG00000120820
-1.4318	0.9239	ENSG00000181965
-1.4313	0.92382	ENSG00000167522
1.4311	0.076203	ENSG00000138592
1.431	0.076211	ENSG00000170370
-1.4305	0.92371	ENSG00000154975
-1.4303	0.92368	ENSG00000128274
1.4303	0.076311	ENSG00000112333
1.4303	0.07632	ENSG00000139613
1.4299	0.076372	ENSG00000215217
1.4299	0.076374	ENSG00000183617
-1.4297	0.92361	ENSG00000124227
1.4296	0.076417	ENSG00000177888
1.4296	0.076418	ENSG00000163273
1.4295	0.076423	ENSG00000162552
-1.4288	0.92347	ENSG00000100122
-1.4285	0.92343	ENSG00000204842
-1.4284	0.92342	ENSG00000047188
-1.4284	0.92342	ENSG00000224186
-1.428	0.92335	ENSG00000189134
1.428	0.076642	ENSG00000011422
1.4277	0.07669	ENSG00000111215
1.4277	0.076691	ENSG00000054983
-1.4276	0.92329	ENSG00000148399
1.4276	0.076697	ENSG00000175467
1.4273	0.076753	ENSG00000112309
1.4267	0.076832	ENSG00000196531
-1.4266	0.92315	ENSG00000147869
1.4265	0.076863	ENSG00000128524
1.4264	0.076879	ENSG00000165406
-1.4263	0.9231	ENSG00000148408
-1.4261	0.92308	ENSG00000181718
-1.4259	0.92305	ENSG00000115084
1.4259	0.076948	ENSG00000179133
-1.4257	0.92302	ENSG00000129187

1.4257	0.076978	ENSG00000154165
1.4257	0.07698	ENSG00000138162
1.4256	0.076991	ENSG00000136938
1.4255	0.077011	ENSG00000151117
1.4254	0.07702	ENSG00000134077
-1.4251	0.92294	ENSG00000213672
-1.4248	0.92289	ENSG00000120334
1.4248	0.077112	ENSG00000085552
-1.4243	0.92282	ENSG00000221988
1.4243	0.077175	ENSG00000256574
-1.424	0.92278	ENSG00000215455
1.4235	0.077297	ENSG00000131910
-1.4234	0.92269	ENSG00000110042
1.4233	0.077323	ENSG00000133639
1.4233	0.077325	ENSG00000133731
1.4231	0.077358	ENSG00000105048
-1.423	0.92263	ENSG00000119397
1.423	0.077362	ENSG00000268797
1.423	0.077373	ENSG00000204869
-1.4229	0.92262	ENSG00000132326
-1.4228	0.92261	ENSG00000165555
1.4226	0.077432	ENSG00000104897
1.4223	0.077464	ENSG00000133424
1.4222	0.077485	ENSG00000174173
1.4221	0.077492	ENSG00000214325
1.422	0.077518	ENSG00000160688
1.4217	0.077558	ENSG00000120093
1.4216	0.07757	ENSG00000230510
1.4214	0.077601	ENSG00000076108
-1.4213	0.92238	ENSG00000125843
1.4211	0.07764	ENSG00000169704
1.4207	0.077697	ENSG00000258405
1.4205	0.077727	ENSG00000166598
1.4204	0.077752	ENSG00000107862
-1.4198	0.92217	ENSG00000180432
1.4196	0.077857	ENSG00000145743
1.4192	0.077914	ENSG00000182308
-1.4187	0.92201	ENSG00000103449
-1.4186	0.92199	ENSG00000162148
-1.4183	0.92194	ENSG00000204385
1.4182	0.078068	ENSG00000198586
1.4179	0.078103	ENSG00000118307
-1.4178	0.92188	ENSG00000107807
1.4178	0.078119	ENSG00000221826
1.4177	0.078145	ENSG00000254667
1.4175	0.078172	ENSG00000137101
1.4174	0.078177	ENSG00000167671
-1.4173	0.9218	ENSG00000106245
-1.4173	0.9218	ENSG00000267901
-1.417	0.92176	ENSG00000129673
1.4167	0.078283	ENSG00000153774

-1.4166	0.9217	ENSG00000115268
-1.4164	0.92167	ENSG00000137561
1.4162	0.078357	ENSG00000269711
1.4162	0.07836	ENSG00000269545
-1.416	0.92162	ENSG00000163138
1.4159	0.078407	ENSG00000138073
-1.4158	0.92158	ENSG00000180398
1.4158	0.078418	ENSG00000196946
-1.4156	0.92155	ENSG00000130201
1.4155	0.078458	ENSG00000189376
1.4153	0.078488	ENSG00000109079
1.4151	0.078524	ENSG00000115590
-1.4146	0.92141	ENSG00000156970
1.4145	0.078608	ENSG00000205693
1.4145	0.07861	ENSG00000106009
1.4143	0.078641	ENSG00000186017
-1.4141	0.92133	ENSG00000054277
-1.414	0.92131	ENSG00000158856
-1.4139	0.92131	ENSG00000052850
1.4138	0.078709	ENSG00000133315
1.4138	0.078717	ENSG00000163154
-1.4136	0.92125	ENSG00000132698
1.4135	0.07875	ENSG00000163812
-1.4133	0.92121	ENSG00000105829
-1.4133	0.92122	ENSG00000164512
1.4132	0.078805	ENSG00000144227
-1.4131	0.92119	ENSG00000116981
1.4131	0.078815	ENSG00000204020
1.413	0.07883	ENSG00000109736
1.4127	0.07887	ENSG00000078804
-1.4126	0.92111	ENSG00000139197
-1.4126	0.92112	ENSG00000164756
1.4121	0.078964	ENSG00000145808
1.4119	0.078995	ENSG00000215187
-1.4118	0.921	ENSG00000163072
1.4116	0.079034	ENSG00000165434
1.4114	0.079068	ENSG00000143924
1.4113	0.079083	ENSG00000171680
-1.4111	0.92089	ENSG00000105672
1.4111	0.079111	ENSG00000153250
1.4107	0.079164	ENSG00000267110
1.4106	0.079175	ENSG00000179562
1.4105	0.079191	ENSG00000006025
-1.4102	0.92075	ENSG00000075945
1.4102	0.079244	ENSG00000184599
1.41	0.07927	ENSG00000213029
-1.4097	0.92069	ENSG00000124103
-1.4095	0.92065	ENSG00000100075
-1.4092	0.92061	ENSG00000167779
-1.4091	0.9206	ENSG00000167104
-1.409	0.92059	ENSG00000187642

1.4088	0.079442	ENSG00000030066
-1.4083	0.92048	ENSG00000170803
1.4082	0.079529	ENSG00000081052
1.4078	0.079602	ENSG00000267140
1.4077	0.079617	ENSG00000214435
-1.4072	0.92032	ENSG00000120129
1.4068	0.079742	ENSG00000111237
-1.4067	0.92025	ENSG00000062194
1.4064	0.079804	ENSG00000158748
1.4063	0.079819	ENSG00000116039
-1.4062	0.92017	ENSG00000179041
1.4062	0.079839	ENSG00000018236
-1.4061	0.92016	ENSG00000129518
-1.406	0.92014	ENSG00000196418
-1.4059	0.92013	ENSG00000213886
1.4057	0.079903	ENSG00000095380
1.4057	0.079907	ENSG00000100380
1.4057	0.079912	ENSG00000118526
1.4056	0.079916	ENSG00000212658
1.4056	0.079916	ENSG00000206026
1.4054	0.079953	ENSG00000100099
1.4053	0.079968	ENSG00000268076
1.4051	0.07999	ENSG00000117054
1.405	0.080016	ENSG00000230301
-1.4042	0.91987	ENSG00000131941
1.4042	0.08013	ENSG00000072201
1.4041	0.08015	ENSG00000180044
1.404	0.080165	ENSG00000047849
1.404	0.080166	ENSG00000170364
1.4039	0.080178	ENSG00000066382
1.4036	0.080216	ENSG00000162607
1.4031	0.080288	ENSG00000004059
-1.403	0.91969	ENSG00000083544
1.4029	0.080322	ENSG00000147571
-1.4028	0.91966	ENSG00000108509
-1.4023	0.91958	ENSG00000141627
1.4015	0.080526	ENSG00000164073
-1.4014	0.91946	ENSG00000186446
-1.4014	0.91946	ENSG00000161542
1.4011	0.080592	ENSG00000155850
1.4009	0.080621	ENSG00000139053
1.4001	0.080736	ENSG00000185591
-1.4	0.91924	ENSG00000196532
-1.3999	0.91922	ENSG00000165066
1.3999	0.080764	ENSG00000156127
1.3997	0.080795	ENSG00000241399
1.3989	0.080925	ENSG00000005100
-1.3982	0.91897	ENSG00000105220
-1.3982	0.91897	ENSG00000224730
1.3982	0.081029	ENSG00000143499
1.3974	0.081145	ENSG00000171984

1.3971	0.081188	ENSG00000186407
1.3968	0.081241	ENSG00000165490
1.3967	0.081259	ENSG00000167702
1.3966	0.081268	ENSG00000151917
1.3958	0.08139	ENSG00000196724
1.3957	0.081399	ENSG00000099937
1.3956	0.081423	ENSG00000119899
1.3953	0.081461	ENSG00000177663
1.3952	0.081481	ENSG00000149657
1.3949	0.08152	ENSG00000115297
-1.3947	0.91844	ENSG00000182197
1.3947	0.081556	ENSG00000125695
1.3947	0.081558	ENSG00000106443
1.3946	0.081569	ENSG00000187242
1.3945	0.081576	ENSG00000131981
1.3943	0.081616	ENSG00000171195
1.3942	0.081626	ENSG00000008226
1.3942	0.081635	ENSG00000187678
1.3941	0.08164	ENSG00000269383
-1.394	0.91834	ENSG00000180176
-1.3939	0.91833	ENSG00000184640
1.3939	0.081669	ENSG00000170454
1.3933	0.081772	ENSG00000087303
-1.3931	0.91821	ENSG00000217075
1.3931	0.081795	ENSG00000135070
1.393	0.081806	ENSG00000183160
-1.3929	0.91817	ENSG00000163218
-1.3928	0.91815	ENSG00000106344
1.3928	0.081845	ENSG00000130176
-1.3927	0.91815	ENSG00000184374
-1.3926	0.91813	ENSG00000067191
1.3924	0.081908	ENSG00000155463
1.3923	0.081912	ENSG00000107859
1.3923	0.081919	ENSG00000162998
-1.3922	0.91807	ENSG00000214595
-1.3922	0.91807	ENSG00000174749
1.3917	0.082011	ENSG00000187742
-1.3915	0.91796	ENSG00000204120
-1.3905	0.91781	ENSG00000140443
1.3903	0.082216	ENSG00000117410
1.39	0.082258	ENSG00000078401
1.39	0.082261	ENSG00000172296
1.3897	0.082307	ENSG00000111727
-1.3896	0.91767	ENSG00000134256
1.3896	0.08232	ENSG00000100227
1.3894	0.082357	ENSG00000198838
-1.3893	0.91762	ENSG00000076554
-1.3892	0.91762	ENSG00000183396
-1.3892	0.91762	ENSG00000112337
-1.389	0.91758	ENSG00000262039
1.3889	0.082436	ENSG00000116793

1.3886	0.08247	ENSG00000198339
1.388	0.082576	ENSG00000112214
-1.3878	0.91741	ENSG00000144597
-1.3872	0.9173	ENSG00000090097
-1.3867	0.91723	ENSG00000162757
-1.3867	0.91724	ENSG00000079150
1.3866	0.082778	ENSG00000109066
-1.3864	0.91718	ENSG00000213337
1.3862	0.082843	ENSG00000112303
1.3862	0.082843	ENSG00000154589
1.3861	0.082856	ENSG00000148985
1.3858	0.082897	ENSG00000134539
1.3857	0.082918	ENSG00000154928
1.3857	0.082918	ENSG00000100142
1.3855	0.082953	ENSG00000100156
-1.3852	0.91701	ENSG00000178695
1.3851	0.083005	ENSG00000169612
1.385	0.083024	ENSG00000122707
-1.3847	0.91692	ENSG00000081853
1.3847	0.083078	ENSG00000065427
1.3846	0.083086	ENSG00000088826
1.3844	0.083113	ENSG00000196850
1.3844	0.083122	ENSG00000164078
1.3843	0.083131	ENSG00000188916
1.3843	0.083136	ENSG00000104899
-1.3842	0.91685	ENSG00000067836
-1.3836	0.91676	ENSG00000183742
-1.3836	0.91676	ENSG00000181698
1.3835	0.083257	ENSG00000127743
-1.3832	0.9167	ENSG00000268533
-1.3831	0.91669	ENSG00000155099
1.3827	0.083375	ENSG00000121152
1.3824	0.08342	ENSG00000137968
-1.3823	0.91655	ENSG00000214290
-1.3822	0.91655	ENSG00000163673
-1.3819	0.9165	ENSG00000204444
1.3817	0.083529	ENSG00000118855
1.3815	0.083562	ENSG00000177628
-1.381	0.91636	ENSG00000182983
-1.3806	0.91631	ENSG00000241123
1.3804	0.083726	ENSG00000182463
-1.3799	0.91619	ENSG00000197713
1.3797	0.083839	ENSG00000131050
-1.3794	0.91612	ENSG00000080573
1.3794	0.083883	ENSG00000100079
-1.379	0.91606	ENSG00000153253
1.3786	0.084016	ENSG00000108759
-1.3785	0.91597	ENSG00000127527
1.3785	0.084018	ENSG00000165684
-1.3783	0.91595	ENSG00000139192
1.3783	0.084048	ENSG00000175325

1.3783	0.084049	ENSG00000116641
1.3782	0.084064	ENSG00000129474
-1.3781	0.91592	ENSG00000101425
1.3778	0.08414	ENSG00000117360
-1.3777	0.91585	ENSG00000119285
-1.3776	0.91584	ENSG00000129317
1.3774	0.084197	ENSG00000167880
-1.3771	0.91576	ENSG00000183423
-1.3771	0.91576	ENSG00000268632
-1.377	0.91574	ENSG00000087589
-1.377	0.91575	ENSG00000134419
-1.3767	0.9157	ENSG00000185966
1.3767	0.084309	ENSG00000135048
1.3766	0.08432	ENSG00000141431
-1.3765	0.91567	ENSG00000168734
-1.3763	0.91563	ENSG00000125844
1.3761	0.084388	ENSG00000117461
-1.376	0.91559	ENSG00000204475
-1.3759	0.91558	ENSG00000174567
1.3759	0.084421	ENSG00000165973
1.3755	0.084486	ENSG00000213699
1.3754	0.084508	ENSG00000095139
-1.3753	0.91548	ENSG00000104218
-1.3753	0.91548	ENSG00000213809
-1.3753	0.91548	ENSG00000255439
-1.3753	0.91548	ENSG00000064300
-1.3753	0.91549	ENSG00000126226
1.3751	0.084547	ENSG00000178021
1.375	0.084559	ENSG00000167094
-1.3747	0.91539	ENSG00000054148
1.3745	0.084645	ENSG00000255582
-1.3743	0.91533	ENSG00000145439
-1.374	0.91527	ENSG00000189058
1.374	0.084715	ENSG00000169856
1.374	0.084722	ENSG00000179364
1.3739	0.084736	ENSG00000227124
-1.3738	0.91525	ENSG00000168453
-1.3737	0.91523	ENSG00000074800
-1.3737	0.91523	ENSG00000189051
-1.3735	0.9152	ENSG00000255552
1.3731	0.084867	ENSG00000048028
1.373	0.084874	ENSG00000142327
-1.3729	0.9151	ENSG00000171936
-1.3727	0.91507	ENSG00000163735
-1.3727	0.91508	ENSG00000196184
1.3726	0.084932	ENSG00000134765
1.3725	0.084959	ENSG00000154813
1.3723	0.084984	ENSG00000164007
1.3723	0.084987	ENSG00000134352
1.3722	0.084997	ENSG00000186976
-1.3718	0.91494	ENSG00000178403

1.3718	0.085059	ENSG00000254535
1.3717	0.085082	ENSG00000258436
1.3717	0.085082	ENSG00000159337
1.3714	0.08512	ENSG00000104343
1.3713	0.085141	ENSG00000100100
-1.3712	0.91485	ENSG00000174697
-1.3709	0.9148	ENSG00000186150
-1.3706	0.91475	ENSG00000188786
1.3704	0.085285	ENSG00000182896
-1.3703	0.9147	ENSG00000158234
1.3702	0.085307	ENSG00000184564
1.3701	0.085334	ENSG00000167468
-1.37	0.91466	ENSG00000109743
1.37	0.08535	ENSG00000079246
-1.3699	0.91464	ENSG00000268714
-1.3696	0.9146	ENSG00000256530
-1.3696	0.9146	ENSG00000166965
1.3696	0.085403	ENSG00000186812
1.3695	0.085415	ENSG00000004478
1.3695	0.085418	ENSG00000136631
1.3695	0.085423	ENSG00000239857
-1.3692	0.91452	ENSG00000122694
1.3692	0.085471	ENSG00000213022
1.3686	0.08556	ENSG00000130165
1.3684	0.085596	ENSG00000198231
1.3683	0.085602	ENSG00000162636
-1.3681	0.91436	ENSG00000112182
1.3679	0.085672	ENSG00000100461
1.3677	0.085697	ENSG00000084676
1.3677	0.085705	ENSG00000124467
1.3676	0.08572	ENSG00000187145
-1.3674	0.91425	ENSG00000268223
1.3674	0.085751	ENSG00000168291
1.3669	0.085829	ENSG00000183258
-1.3667	0.91413	ENSG00000175220
-1.3667	0.91414	ENSG00000187790
-1.3664	0.91409	ENSG00000102854
1.3663	0.085923	ENSG00000128346
-1.3662	0.91406	ENSG00000165244
-1.3661	0.91404	ENSG00000186970
-1.3659	0.91402	ENSG00000130770
1.3659	0.08598	ENSG00000198650
1.3659	0.085983	ENSG00000240224
1.3657	0.086018	ENSG00000014824
-1.3655	0.91395	ENSG00000121067
1.3654	0.086059	ENSG00000078900
1.365	0.086123	ENSG00000142182
1.3649	0.086145	ENSG00000132321
1.3647	0.086181	ENSG00000119703
1.3644	0.08622	ENSG00000147316
1.3642	0.086259	ENSG00000269881

-1.3636	0.91366	ENSG00000182919
1.3636	0.086354	ENSG00000108592
1.3633	0.086393	ENSG00000158828
-1.363	0.91356	ENSG00000164167
-1.3629	0.91354	ENSG00000169515
1.3626	0.08651	ENSG00000254531
1.3624	0.086534	ENSG00000165891
1.3624	0.086539	ENSG00000214655
-1.3623	0.91345	ENSG00000134917
-1.3615	0.91333	ENSG00000089737
1.3614	0.086692	ENSG00000188690
-1.3611	0.91325	ENSG00000137563
1.3609	0.086779	ENSG00000185264
1.3608	0.086783	ENSG00000008324
1.3606	0.086826	ENSG00000186298
1.3604	0.086848	ENSG00000172071
1.3602	0.086878	ENSG00000215428
1.36	0.08691	ENSG00000169550
1.3596	0.08698	ENSG00000153391
1.3595	0.086989	ENSG00000172640
-1.3592	0.91295	ENSG00000117016
-1.3588	0.9129	ENSG00000138435
1.3586	0.087131	ENSG00000116396
1.3583	0.087192	ENSG00000254806
1.3574	0.087327	ENSG00000140030
1.3574	0.087329	ENSG00000182544
1.3564	0.08748	ENSG00000185130
-1.3563	0.91249	ENSG00000025293
-1.3563	0.9125	ENSG00000197928
1.3561	0.087538	ENSG00000196224
1.3559	0.087567	ENSG00000164707
1.3559	0.087572	ENSG00000095787
1.3558	0.087585	ENSG00000170178
1.3557	0.087602	ENSG00000151923
1.3552	0.087671	ENSG00000174516
1.3551	0.087697	ENSG00000140937
-1.355	0.91229	ENSG00000085741
-1.355	0.91229	ENSG00000171053
1.3548	0.087733	ENSG00000100300
1.3548	0.087734	ENSG00000100129
-1.3547	0.91225	ENSG00000164850
1.3547	0.087762	ENSG00000128011
1.3546	0.087776	ENSG00000184277
-1.3545	0.91221	ENSG00000127054
-1.354	0.91213	ENSG00000125968
1.354	0.08787	ENSG00000113391
1.3539	0.087879	ENSG00000188342
1.3539	0.087884	ENSG00000116001
1.3538	0.0879	ENSG00000135312
-1.3535	0.91205	ENSG00000157330
1.353	0.088028	ENSG00000108691

-1.3528	0.91195	ENSG00000124529
1.3528	0.088061	ENSG00000257955
-1.3527	0.91193	ENSG00000121104
1.3527	0.088075	ENSG00000123200
1.3527	0.088078	ENSG00000164040
1.3522	0.08816	ENSG00000100387
1.3521	0.088175	ENSG00000116996
1.3521	0.088177	ENSG00000170677
1.3521	0.08818	ENSG00000117000
-1.3519	0.91179	ENSG00000175216
-1.3518	0.91177	ENSG00000196757
-1.3513	0.9117	ENSG00000135605
1.351	0.088348	ENSG00000182742
1.3509	0.088356	ENSG00000172497
1.3509	0.088359	ENSG00000213822
1.3509	0.088371	ENSG00000006530
-1.3508	0.91163	ENSG00000123485
1.3508	0.088387	ENSG00000172456
1.3507	0.088391	ENSG00000231171
1.3504	0.088437	ENSG00000129194
1.3502	0.088479	ENSG00000167791
1.3498	0.088539	ENSG00000111880
-1.3493	0.91139	ENSG00000138829
1.3493	0.088621	ENSG00000161999
1.3489	0.088685	ENSG00000105270
-1.3485	0.91125	ENSG00000185201
1.3485	0.088749	ENSG00000104299
-1.3482	0.9112	ENSG00000103479
1.3481	0.08881	ENSG00000104904
-1.3477	0.91112	ENSG00000127418
1.3477	0.088873	ENSG00000169836
1.3475	0.088911	ENSG00000186146
1.3474	0.088931	ENSG00000188636
1.3473	0.088939	ENSG00000113621
1.3471	0.088975	ENSG00000177984
1.3469	0.089003	ENSG00000047936
-1.3468	0.91097	ENSG00000197951
1.3467	0.089037	ENSG00000100263
1.3466	0.08905	ENSG00000102996
1.3465	0.089071	ENSG00000186854
1.3464	0.089089	ENSG00000115998
-1.3461	0.91087	ENSG00000215504
1.3461	0.089127	ENSG00000123612
-1.346	0.91085	ENSG00000123685
-1.346	0.91085	ENSG00000106400
1.3459	0.08917	ENSG00000157873
1.3457	0.089199	ENSG00000092140
-1.3451	0.91071	ENSG00000224383
1.3449	0.089331	ENSG00000128335
-1.3447	0.91065	ENSG00000204438
1.3445	0.089387	ENSG00000151414

1.3441	0.08945	ENSG00000205937
1.3437	0.089529	ENSG00000133193
1.3437	0.08953	ENSG00000213828
-1.3435	0.91044	ENSG00000102471
-1.3434	0.91042	ENSG00000268313
1.3434	0.089579	ENSG00000126790
-1.3433	0.91042	ENSG00000138622
1.3431	0.089617	ENSG00000164123
1.3431	0.089623	ENSG00000138119
1.3429	0.089658	ENSG00000151233
-1.3427	0.91032	ENSG00000081377
1.3426	0.089698	ENSG00000149131
1.3424	0.089725	ENSG00000188452
1.3422	0.089766	ENSG00000034152
1.3421	0.089784	ENSG00000130005
1.3421	0.089788	ENSG00000143315
-1.3417	0.91016	ENSG00000126583
1.3417	0.089845	ENSG00000186510
-1.3416	0.91014	ENSG00000183208
1.3416	0.08986	ENSG00000204873
1.3414	0.08989	ENSG00000198690
1.3412	0.089927	ENSG00000157131
-1.3408	0.91	ENSG00000161547
1.3408	0.089992	ENSG00000157193
-1.3405	0.90996	ENSG00000134762
1.3405	0.090042	ENSG00000124587
1.3402	0.090095	ENSG00000153064
1.3396	0.090191	ENSG00000196236
-1.3394	0.90978	ENSG00000124596
1.3392	0.090246	ENSG00000142621
1.3391	0.090267	ENSG00000163576
-1.339	0.90971	ENSG00000155816
-1.339	0.90971	ENSG00000161133
1.3389	0.09031	ENSG00000069018
1.3385	0.090362	ENSG00000168959
1.3382	0.09042	ENSG00000106952
1.338	0.090455	ENSG00000165322
1.3378	0.090484	ENSG00000004866
-1.3377	0.90949	ENSG00000077585
-1.3377	0.90951	ENSG00000101327
-1.3376	0.90948	ENSG00000203485
1.3375	0.090536	ENSG00000162992
-1.3374	0.90945	ENSG00000127124
1.3372	0.090573	ENSG00000167595
1.337	0.090606	ENSG00000155636
1.3366	0.090678	ENSG00000159593
-1.3365	0.9093	ENSG00000250709
-1.3361	0.90925	ENSG00000145423
1.3361	0.090752	ENSG00000174576
1.336	0.090771	ENSG00000263711
1.3358	0.090813	ENSG00000188994

1.3358	0.090813	ENSG00000168070
1.3357	0.090819	ENSG00000101017
-1.3356	0.90916	ENSG00000197935
-1.3352	0.9091	ENSG00000101439
1.3352	0.090897	ENSG00000166261
-1.3349	0.90905	ENSG00000184992
1.3349	0.09095	ENSG00000214306
-1.3347	0.90902	ENSG00000174501
1.3346	0.090999	ENSG00000156232
-1.3343	0.90895	ENSG00000169592
-1.3342	0.90894	ENSG00000262209
1.3341	0.091078	ENSG00000214026
1.3336	0.091175	ENSG00000106608
-1.3334	0.9088	ENSG00000185372
-1.3333	0.90878	ENSG00000214511
1.3333	0.091217	ENSG00000256188
1.3327	0.091316	ENSG00000101670
1.3327	0.091318	ENSG00000103064
-1.332	0.90856	ENSG00000170860
-1.332	0.90858	ENSG00000105671
1.332	0.091435	ENSG00000141452
1.3319	0.091449	ENSG00000164574
-1.3317	0.90852	ENSG00000115593
-1.3317	0.90852	ENSG00000109851
1.3316	0.091495	ENSG00000198087
1.3315	0.091509	ENSG00000122735
-1.3314	0.90847	ENSG00000059758
-1.3312	0.90843	ENSG00000179071
-1.3312	0.90843	ENSG00000126856
1.3312	0.091562	ENSG00000099783
-1.331	0.90841	ENSG00000237541
-1.3308	0.90837	ENSG00000167815
-1.3306	0.90835	ENSG00000136856
1.3305	0.091669	ENSG00000156026
-1.3298	0.9082	ENSG00000131462
1.3298	0.091799	ENSG00000182533
1.3298	0.0918	ENSG00000166920
-1.3296	0.90817	ENSG00000143013
-1.3296	0.90817	ENSG00000164024
-1.3295	0.90815	ENSG00000262576
1.3295	0.091836	ENSG00000270757
1.3292	0.09189	ENSG00000144028
-1.3291	0.9081	ENSG00000064201
1.3291	0.091911	ENSG00000175322
1.329	0.09193	ENSG00000157657
1.329	0.091932	ENSG00000171695
-1.3288	0.90805	ENSG00000254106
-1.3287	0.90803	ENSG00000165821
1.3284	0.09202	ENSG00000167930
-1.3279	0.9079	ENSG00000197857
1.3277	0.092133	ENSG00000157224

-1.3276	0.90785	ENSG00000213922
-1.3269	0.90773	ENSG00000065268
1.3269	0.092274	ENSG00000107679
1.3265	0.09234	ENSG00000259384
1.3264	0.092358	ENSG00000188735
1.3264	0.092362	ENSG00000168883
-1.3263	0.90763	ENSG00000254221
-1.3261	0.9076	ENSG00000171396
1.326	0.092428	ENSG00000204566
1.3259	0.092443	ENSG00000121068
1.3256	0.092492	ENSG00000134365
1.3255	0.092507	ENSG00000094755
-1.3254	0.90749	ENSG00000181761
-1.3253	0.90746	ENSG00000047579
-1.3253	0.90746	ENSG00000169021
1.3253	0.09253	ENSG00000111596
1.325	0.092582	ENSG00000114062
-1.3248	0.90738	ENSG00000135709
1.3248	0.092615	ENSG00000204365
1.3247	0.092641	ENSG00000114166
1.3245	0.092667	ENSG00000177707
1.3245	0.092675	ENSG00000168517
-1.3242	0.90728	ENSG00000256061
1.3242	0.092713	ENSG00000183668
-1.3241	0.90727	ENSG00000163071
1.324	0.09276	ENSG00000136167
-1.3239	0.90723	ENSG00000105404
1.3239	0.092767	ENSG00000092108
-1.3237	0.9072	ENSG00000158186
-1.3236	0.90718	ENSG00000132026
1.3236	0.09282	ENSG00000165795
1.3235	0.092837	ENSG00000264324
1.3233	0.092863	ENSG00000262003
1.3232	0.092888	ENSG00000113916
-1.3228	0.90706	ENSG00000123136
-1.3227	0.90704	ENSG00000180988
-1.3226	0.90701	ENSG00000124391
-1.3224	0.90698	ENSG00000074621
-1.3223	0.90697	ENSG00000272214
1.3222	0.093049	ENSG00000172785
-1.3219	0.9069	ENSG00000115474
1.3215	0.093167	ENSG00000168913
-1.3214	0.90682	ENSG00000179399
1.3213	0.093201	ENSG00000132819
1.3212	0.093216	ENSG00000103021
1.3212	0.093219	ENSG00000140398
1.321	0.093245	ENSG00000135297
-1.3208	0.90671	ENSG00000136699
1.3205	0.093326	ENSG00000170484
-1.3204	0.90664	ENSG00000137338
-1.3204	0.90665	ENSG00000133895

-1.3204	0.90665	ENSG00000188624
1.3203	0.093369	ENSG00000166450
-1.3202	0.90661	ENSG00000105364
-1.3202	0.90662	ENSG00000049883
-1.32	0.90659	ENSG00000120669
1.3197	0.09347	ENSG00000108417
1.3194	0.093525	ENSG00000114757
1.3193	0.093535	ENSG00000114125
1.3192	0.09355	ENSG00000134900
1.3192	0.09355	ENSG00000083290
-1.319	0.90642	ENSG00000100368
1.3189	0.093599	ENSG00000152942
1.3185	0.093675	ENSG00000132781
-1.3182	0.90627	ENSG00000099901
-1.3181	0.90626	ENSG00000124564
1.318	0.093746	ENSG00000184408
1.318	0.093753	ENSG00000162522
-1.3178	0.90621	ENSG00000008710
-1.3177	0.9062	ENSG00000183640
1.3177	0.093803	ENSG00000096401
-1.3176	0.90617	ENSG00000141040
-1.3176	0.90618	ENSG00000141013
1.3176	0.093817	ENSG00000099998
1.3176	0.093825	ENSG00000168884
1.3176	0.093826	ENSG00000138316
1.3175	0.09384	ENSG00000197125
1.3174	0.09386	ENSG00000102898
-1.3173	0.90613	ENSG00000122035
-1.317	0.90607	ENSG00000106258
-1.3169	0.90607	ENSG00000174945
-1.3168	0.90605	ENSG00000215547
1.3168	0.093949	ENSG00000005700
1.3165	0.094002	ENSG00000102904
1.3165	0.094009	ENSG00000088387
1.3161	0.094062	ENSG00000175003
1.3161	0.094064	ENSG00000124116
1.3158	0.094121	ENSG00000111817
1.3158	0.094121	ENSG00000185245
-1.3156	0.90585	ENSG00000157637
1.3155	0.094165	ENSG00000176302
1.3154	0.094194	ENSG00000147548
-1.3147	0.90569	ENSG00000078487
1.3146	0.094324	ENSG00000163568
1.3143	0.094378	ENSG00000105649
1.3143	0.094381	ENSG00000136485
-1.3142	0.90561	ENSG00000139910
-1.3142	0.90561	ENSG00000138614
-1.3141	0.90559	ENSG00000139648
1.314	0.09442	ENSG00000174599
-1.3133	0.90547	ENSG00000154639
1.3133	0.094535	ENSG00000151576

-1.3132	0.90543	ENSG00000138207
-1.3131	0.90543	ENSG00000102710
-1.3131	0.90543	ENSG00000103202
1.3131	0.094567	ENSG00000124155
1.3131	0.094575	ENSG00000107443
1.3131	0.094579	ENSG00000134202
1.3128	0.094631	ENSG00000153531
-1.3127	0.90536	ENSG00000108381
1.3127	0.094637	ENSG00000105429
-1.3126	0.90534	ENSG00000100385
1.3125	0.094671	ENSG00000172292
-1.3124	0.9053	ENSG00000268154
1.3123	0.094711	ENSG00000196407
1.3121	0.094744	ENSG00000249853
-1.3118	0.90521	ENSG00000235705
1.3118	0.094791	ENSG00000166579
1.3117	0.094811	ENSG00000117407
-1.3113	0.90512	ENSG00000215375
-1.3112	0.9051	ENSG00000048828
-1.3111	0.90508	ENSG00000137825
1.311	0.094929	ENSG00000113645
-1.3104	0.90497	ENSG00000121964
1.3104	0.095023	ENSG00000163624
1.3104	0.095036	ENSG00000188051
1.3104	0.095037	ENSG00000196511
1.3101	0.095083	ENSG00000171311
-1.3099	0.90488	ENSG00000129422
-1.3098	0.90487	ENSG00000251258
1.3098	0.095127	ENSG00000100253
1.3095	0.095177	ENSG00000122565
1.3095	0.09519	ENSG00000243566
1.3088	0.095296	ENSG00000138439
-1.3084	0.90462	ENSG00000066739
-1.3082	0.9046	ENSG00000197548
-1.3081	0.90458	ENSG00000186117
1.308	0.095437	ENSG00000116005
-1.3079	0.90454	ENSG00000099810
-1.3076	0.9045	ENSG00000169242
1.3076	0.095509	ENSG00000110046
1.3075	0.09552	ENSG00000164291
-1.3074	0.90446	ENSG00000205765
1.3074	0.095533	ENSG00000125870
-1.3072	0.90442	ENSG00000138039
-1.3072	0.90442	ENSG00000214944
1.3072	0.095566	ENSG00000115163
1.3071	0.095586	ENSG00000184330
1.3071	0.095586	ENSG00000144468
-1.307	0.9044	ENSG00000130307
1.307	0.095599	ENSG00000168887
1.3068	0.095634	ENSG00000153707
1.3063	0.095727	ENSG00000148950

-1.3061	0.90424	ENSG00000188290
1.3061	0.095761	ENSG00000095917
1.3061	0.095767	ENSG00000138185
-1.306	0.90422	ENSG00000112578
-1.3059	0.9042	ENSG00000196119
-1.3059	0.9042	ENSG00000131051
-1.3058	0.90419	ENSG00000204941
1.3058	0.095809	ENSG00000167553
-1.3057	0.90418	ENSG00000137992
-1.3051	0.90408	ENSG00000075290
1.3051	0.095923	ENSG00000198569
1.3051	0.095929	ENSG00000180697
-1.305	0.90405	ENSG00000232629
1.3049	0.095966	ENSG00000213096
1.3047	0.095992	ENSG00000114942
1.3046	0.096011	ENSG00000125503
-1.3045	0.90397	ENSG00000173212
1.3038	0.096158	ENSG00000118689
-1.3037	0.90383	ENSG00000267179
1.3037	0.096169	ENSG00000122257
1.3036	0.09618	ENSG00000228008
1.3035	0.09621	ENSG00000182676
1.3033	0.096235	ENSG00000119977
-1.3032	0.90375	ENSG00000182600
-1.3032	0.90375	ENSG00000106992
-1.303	0.90371	ENSG00000166856
-1.3029	0.9037	ENSG00000135914
-1.3029	0.9037	ENSG00000150076
1.3029	0.096298	ENSG00000259132
1.3024	0.096384	ENSG00000143507
1.3024	0.096396	ENSG00000108405
-1.3023	0.90359	ENSG00000129562
1.3023	0.096413	ENSG00000165698
1.3022	0.096418	ENSG00000142661
-1.3021	0.90355	ENSG00000125454
-1.302	0.90353	ENSG00000170276
1.302	0.096451	ENSG00000168904
1.3018	0.096485	ENSG00000083223
1.3017	0.096501	ENSG00000262814
1.3015	0.096546	ENSG00000165689
-1.3012	0.90341	ENSG00000126261
1.3012	0.096589	ENSG00000068971
-1.3011	0.90339	ENSG00000168152
-1.3011	0.90339	ENSG00000146070
1.301	0.096625	ENSG00000187720
1.3005	0.096713	ENSG00000221944
-1.3004	0.90327	ENSG00000101216
-1.3003	0.90326	ENSG00000205403
1.2999	0.096825	ENSG00000205057
-1.2997	0.90314	ENSG00000163512
1.2997	0.09685	ENSG00000244067

-1.2995	0.90312	ENSG00000122417
-1.2991	0.90304	ENSG00000010704
1.2991	0.096951	ENSG00000132600
1.2989	0.096982	ENSG00000109919
-1.2988	0.903	ENSG00000204104
1.2986	0.097048	ENSG00000132437
-1.2985	0.90294	ENSG00000267631
-1.2982	0.9029	ENSG00000069869
-1.2981	0.90287	ENSG00000240053
-1.298	0.90286	ENSG00000253910
1.298	0.097143	ENSG00000125821
1.2979	0.09716	ENSG00000066427
1.2978	0.097183	ENSG00000073598
-1.2977	0.9028	ENSG00000166670
1.2977	0.097193	ENSG00000234906
1.2974	0.097248	ENSG00000143257
-1.2972	0.90272	ENSG00000170162
1.2971	0.097303	ENSG00000170465
-1.2969	0.90267	ENSG00000142794
1.2969	0.09733	ENSG00000161692
1.2969	0.097341	ENSG00000176635
1.2963	0.09743	ENSG00000121289
1.2963	0.097444	ENSG00000198542
-1.2962	0.90255	ENSG00000090266
1.2962	0.097449	ENSG00000134153
-1.2958	0.90248	ENSG00000171462
1.2957	0.097539	ENSG00000186367
-1.2956	0.90245	ENSG00000164142
-1.2955	0.90242	ENSG00000159884
-1.2954	0.90241	ENSG00000185056
1.2952	0.097626	ENSG00000264116
-1.2951	0.90235	ENSG00000148346
-1.2951	0.90236	ENSG00000204248
1.2951	0.097648	ENSG00000171136
1.2949	0.097669	ENSG00000204659
1.2949	0.097681	ENSG00000230453
1.2948	0.097695	ENSG00000122484
-1.2947	0.90229	ENSG00000163877
-1.2944	0.90223	ENSG00000186314
1.2942	0.097794	ENSG00000206077
-1.294	0.90216	ENSG00000104325
-1.2939	0.90215	ENSG00000161970
-1.2939	0.90216	ENSG00000134970
1.2937	0.097877	ENSG00000185933
-1.2936	0.9021	ENSG00000225828
1.2935	0.097924	ENSG00000133687
1.2934	0.097928	ENSG00000096717
-1.2932	0.90204	ENSG00000100296
-1.2929	0.90197	ENSG00000186280
-1.2927	0.90194	ENSG00000138653
1.2927	0.098049	ENSG00000160883

1.2927	0.098051	ENSG00000236032
1.2923	0.098128	ENSG00000168234
-1.2922	0.90186	ENSG00000253731
1.2918	0.098207	ENSG00000264813
1.2917	0.098236	ENSG00000160588
1.2915	0.098259	ENSG00000175857
-1.2913	0.90169	ENSG00000128581
1.2913	0.098296	ENSG00000134321
1.2911	0.098328	ENSG00000242366
1.2911	0.098335	ENSG00000172409
-1.291	0.90165	ENSG00000065613
-1.2907	0.9016	ENSG00000103769
1.2906	0.098413	ENSG00000188687
1.2906	0.098425	ENSG00000158859
-1.2905	0.90157	ENSG00000163618
-1.2905	0.90157	ENSG00000105612
1.2904	0.098449	ENSG00000115211
1.2904	0.098459	ENSG00000130348
1.2903	0.09848	ENSG00000155890
1.2901	0.098512	ENSG00000163913
-1.2899	0.90145	ENSG00000163331
1.2898	0.098554	ENSG00000196262
-1.2896	0.9014	ENSG00000135517
1.2895	0.098606	ENSG00000196967
-1.289	0.9013	ENSG00000162618
1.2887	0.098751	ENSG00000135454
-1.2885	0.90121	ENSG00000267534
-1.2885	0.90122	ENSG00000149260
1.2884	0.098811	ENSG00000105427
-1.2881	0.90114	ENSG00000160305
1.2881	0.098852	ENSG00000267157
1.2881	0.098854	ENSG00000106397
-1.2878	0.90108	ENSG00000101236
1.2878	0.098902	ENSG00000157322
1.2878	0.098907	ENSG00000184999
-1.2874	0.90101	ENSG00000205436
-1.2873	0.901	ENSG00000178394
-1.287	0.90095	ENSG00000135912
1.287	0.099041	ENSG00000214102
1.2869	0.099064	ENSG00000118156
-1.2867	0.9009	ENSG00000112893
1.2867	0.099095	ENSG00000022556
-1.2864	0.90085	ENSG00000171872
1.2864	0.099152	ENSG00000196123
1.2862	0.099189	ENSG00000134575
1.286	0.099214	ENSG00000162706
-1.2859	0.90076	ENSG00000168477
1.2856	0.099297	ENSG00000187037
-1.2854	0.90068	ENSG00000079263
1.2853	0.099336	ENSG00000162592
-1.2851	0.90063	ENSG00000267168

1.2846	0.09947	ENSG00000168000
1.2845	0.09948	ENSG00000148604
1.2845	0.099492	ENSG00000187513
1.2844	0.099495	ENSG00000132911
1.2844	0.09951	ENSG00000136643
1.2843	0.099525	ENSG00000166289
1.2842	0.099543	ENSG00000132356
-1.284	0.90042	ENSG00000104972
1.2838	0.099605	ENSG00000143196
-1.2837	0.90038	ENSG00000261147
1.2836	0.099639	ENSG00000186094
-1.2835	0.90035	ENSG00000204956
1.2835	0.09965	ENSG00000230657
1.2835	0.099653	ENSG00000166689
-1.2832	0.90028	ENSG00000172765
-1.2832	0.90029	ENSG00000066777
-1.2831	0.90028	ENSG00000197054
1.2829	0.099756	ENSG00000108176
-1.2826	0.90019	ENSG00000214194
-1.2823	0.90013	ENSG00000065518
-1.2822	0.90011	ENSG00000119402
1.2822	0.099887	ENSG00000125903
1.2822	0.099893	ENSG00000120217
-1.282	0.90007	ENSG00000268735
-1.2816	0.9	ENSG00000171501
-1.2816	0.9	ENSG00000119953
1.2816	0.09999	ENSG00000177519
1.2816	0.099997	ENSG00000070882
-1.2815	0.89999	ENSG00000015592
1.2814	0.10003	ENSG00000172771
-1.2812	0.89994	ENSG00000257103
1.2811	0.10007	ENSG00000119547
1.2811	0.10009	ENSG00000137573
-1.2809	0.89988	ENSG00000226124
1.2809	0.10011	ENSG00000060138
1.2807	0.10016	ENSG00000147677
1.2805	0.10019	ENSG00000109610
-1.2804	0.8998	ENSG00000065618
-1.2804	0.8998	ENSG00000197063
1.2804	0.1002	ENSG00000143164
1.2804	0.1002	ENSG00000167554
1.2802	0.10024	ENSG00000019549
-1.2799	0.89972	ENSG00000269026
1.2798	0.1003	ENSG00000196811
-1.2797	0.89968	ENSG00000160710
1.2797	0.10033	ENSG00000170899
-1.2795	0.89965	ENSG00000170322
-1.2792	0.89958	ENSG00000163482
1.2792	0.10042	ENSG00000196778
1.2791	0.10043	ENSG00000137747
-1.2789	0.89954	ENSG00000162426

1.2789	0.10046	ENSG00000177234
1.2787	0.1005	ENSG00000159640
1.2783	0.10057	ENSG00000085563
1.2782	0.1006	ENSG00000171557
-1.2778	0.89934	ENSG00000164920
-1.2778	0.89935	ENSG00000090470
1.2778	0.10066	ENSG00000180822
-1.2775	0.89928	ENSG00000104804
1.2774	0.10074	ENSG00000059145
1.2773	0.10074	ENSG00000151743
1.2773	0.10075	ENSG00000115524
1.277	0.1008	ENSG00000254505
-1.2769	0.89918	ENSG00000077420
1.2769	0.10081	ENSG00000101197
1.2769	0.10082	ENSG00000261609
-1.2768	0.89916	ENSG00000068781
1.2768	0.10084	ENSG00000116199
-1.2767	0.89914	ENSG00000104979
1.2767	0.10086	ENSG00000101182
-1.2766	0.89912	ENSG00000122729
1.2763	0.10093	ENSG00000163634
1.2759	0.101	ENSG00000197296
1.2758	0.10102	ENSG00000121335
1.2756	0.10106	ENSG00000157168
-1.2754	0.89892	ENSG00000213930
1.2754	0.10109	ENSG00000126581
1.2753	0.1011	ENSG00000269624
1.2753	0.1011	ENSG00000176340
-1.2752	0.89887	ENSG00000100744
1.2747	0.10121	ENSG00000078177
1.2745	0.10124	ENSG00000122642
-1.2742	0.8987	ENSG00000034239
1.2741	0.10132	ENSG00000123405
1.274	0.10133	ENSG00000138892
1.2736	0.1014	ENSG00000005379
-1.2733	0.89854	ENSG00000180919
1.2733	0.10146	ENSG00000157881
1.2733	0.10146	ENSG00000168158
1.2728	0.10154	ENSG00000171476
-1.2726	0.89841	ENSG00000213516
1.2726	0.10159	ENSG00000020256
1.2723	0.10163	ENSG00000174547
-1.2721	0.89833	ENSG00000135763
-1.2721	0.89833	ENSG00000108465
1.2721	0.10166	ENSG00000268865
-1.272	0.89831	ENSG00000174485
-1.2719	0.8983	ENSG00000068383
-1.2716	0.89824	ENSG00000184787
1.2716	0.10176	ENSG00000254737
1.2715	0.10177	ENSG00000136206
-1.2711	0.89816	ENSG00000003137

1.2709	0.10189	ENSG00000163683
-1.2703	0.89802	ENSG00000258817
1.2702	0.102	ENSG00000109471
1.2701	0.10202	ENSG00000198865
1.2701	0.10203	ENSG00000102977
1.27	0.10204	ENSG00000170516
1.2698	0.10207	ENSG00000012232
1.2695	0.10214	ENSG00000139219
1.2694	0.10215	ENSG00000065883
-1.2691	0.8978	ENSG00000132635
1.2691	0.1022	ENSG00000163092
1.269	0.10222	ENSG00000181786
1.2688	0.10226	ENSG00000153283
1.2685	0.1023	ENSG00000130244
1.2682	0.10237	ENSG00000166183
-1.2677	0.89755	ENSG00000061337
1.2672	0.10254	ENSG00000049541
-1.267	0.89742	ENSG00000013297
1.267	0.10257	ENSG00000137494
1.2669	0.10259	ENSG00000171604
1.2669	0.1026	ENSG00000103264
1.2665	0.10266	ENSG00000187054
1.2663	0.10271	ENSG00000148734
1.2663	0.10271	ENSG00000242220
-1.2662	0.89728	ENSG00000163286
1.2661	0.10275	ENSG00000060642
1.2659	0.10278	ENSG00000135824
-1.2658	0.8972	ENSG00000232941
1.2655	0.10285	ENSG00000116521
-1.2654	0.89713	ENSG00000204351
-1.2654	0.89714	ENSG00000232040
1.2654	0.10286	ENSG00000182521
-1.2649	0.89704	ENSG00000079691
-1.2647	0.897	ENSG00000196616
1.2647	0.10298	ENSG00000145592
1.2646	0.103	ENSG00000163681
1.2646	0.103	ENSG00000176547
-1.2643	0.89694	ENSG00000163879
-1.2643	0.89694	ENSG00000115363
-1.2642	0.89693	ENSG00000172301
-1.2639	0.89687	ENSG00000186994
-1.2637	0.89683	ENSG00000076201
1.2629	0.1033	ENSG00000108506
1.2627	0.10335	ENSG00000145309
1.2626	0.10337	ENSG00000144455
-1.2625	0.89662	ENSG00000183044
1.2625	0.10338	ENSG00000129657
1.2624	0.10339	ENSG00000149295
1.2624	0.1034	ENSG00000099940
1.2623	0.10341	ENSG00000014123
-1.2617	0.89647	ENSG00000165264

1.2616	0.10355	ENSG00000116991
1.2615	0.10357	ENSG00000137845
1.2614	0.10358	ENSG00000170385
-1.2613	0.89641	ENSG00000185811
1.2613	0.1036	ENSG00000124766
1.2612	0.10362	ENSG00000187605
1.2609	0.10367	ENSG00000268472
-1.2608	0.8963	ENSG00000104147
-1.2605	0.89626	ENSG00000106355
1.2605	0.10374	ENSG00000182611
1.2605	0.10374	ENSG00000091138
1.2603	0.10378	ENSG00000215621
-1.2601	0.89619	ENSG00000198554
-1.2599	0.89614	ENSG00000070526
-1.2597	0.89612	ENSG00000064687
1.2597	0.10389	ENSG00000259305
-1.2596	0.8961	ENSG00000075790
1.2596	0.10391	ENSG00000141433
1.2594	0.10393	ENSG00000137285
1.2593	0.10395	ENSG00000162174
-1.259	0.89598	ENSG00000170191
1.2589	0.10404	ENSG00000184471
1.2588	0.10406	ENSG00000198471
1.2587	0.10407	ENSG00000167191
-1.2586	0.89591	ENSG00000203785
1.2584	0.10413	ENSG00000165688
-1.2583	0.89586	ENSG00000176893
-1.2583	0.89586	ENSG00000105409
1.2583	0.10413	ENSG00000130724
-1.2582	0.89585	ENSG00000253309
1.258	0.1042	ENSG00000100852
-1.2579	0.89578	ENSG00000108021
1.2579	0.10421	ENSG00000229117
1.2579	0.10422	ENSG00000172348
1.2577	0.10426	ENSG00000137098
-1.2576	0.89574	ENSG00000126107
-1.2576	0.89574	ENSG00000205323
-1.2575	0.89571	ENSG00000119943
1.2574	0.1043	ENSG00000147789
1.2573	0.10432	ENSG00000142731
1.2571	0.10436	ENSG00000176945
-1.257	0.89562	ENSG00000215853
-1.257	0.89562	ENSG00000135540
-1.2568	0.89558	ENSG00000171988
-1.2568	0.8956	ENSG00000116815
1.2566	0.10445	ENSG00000112175
-1.2565	0.89553	ENSG00000241258
-1.2561	0.89545	ENSG00000119242
-1.2561	0.89546	ENSG00000162753
1.2561	0.10454	ENSG00000244274
-1.2558	0.8954	ENSG00000173511

-1.2557	0.89539	ENSG00000159182
1.2557	0.10462	ENSG00000144339
-1.2551	0.89528	ENSG00000055609
1.255	0.10473	ENSG00000154493
1.2549	0.10477	ENSG00000014164
1.2545	0.10483	ENSG00000233412
-1.2544	0.89515	ENSG00000182782
-1.2543	0.89514	ENSG00000113460
1.2543	0.10487	ENSG00000141526
-1.254	0.89508	ENSG00000105991
1.2539	0.10493	ENSG00000120306
1.2539	0.10493	ENSG00000175463
1.2536	0.10499	ENSG00000176490
1.2534	0.10503	ENSG00000117614
1.2529	0.10512	ENSG00000135002
-1.2528	0.89486	ENSG00000164117
-1.2528	0.89487	ENSG00000185963
-1.2527	0.89485	ENSG00000229415
1.2527	0.10516	ENSG00000124003
-1.2525	0.89481	ENSG00000115109
1.2522	0.10525	ENSG00000174579
1.2521	0.10526	ENSG00000136943
1.2521	0.10526	ENSG00000205352
-1.252	0.89472	ENSG00000188613
1.2519	0.1053	ENSG00000182572
1.2519	0.1053	ENSG00000120915
1.2515	0.10538	ENSG00000124251
1.2512	0.10543	ENSG00000111450
1.2512	0.10544	ENSG00000154814
-1.2509	0.89452	ENSG00000261857
1.2506	0.10553	ENSG00000183569
1.2506	0.10555	ENSG00000244165
-1.2505	0.89445	ENSG00000104805
1.2504	0.10558	ENSG00000135250
1.2501	0.10563	ENSG00000088882
-1.25	0.89434	ENSG00000115392
1.25	0.10565	ENSG00000196911
1.25	0.10565	ENSG00000080166
-1.2499	0.89433	ENSG00000214960
-1.2499	0.89434	ENSG00000167632
1.2499	0.10567	ENSG00000135272
1.2496	0.10571	ENSG00000198829
1.2496	0.10573	ENSG00000117322
1.2493	0.10579	ENSG00000149100
-1.2492	0.8942	ENSG00000188674
-1.2492	0.8942	ENSG00000101447
1.2492	0.1058	ENSG00000168509
-1.2488	0.89413	ENSG00000100596
1.2488	0.10587	ENSG00000111678
1.2487	0.10589	ENSG00000112799
1.2483	0.10595	ENSG00000162374

-1.2481	0.894	ENSG00000167775
1.2479	0.10603	ENSG00000198105
1.2478	0.10606	ENSG00000130511
1.2477	0.10606	ENSG00000000938
1.2473	0.10615	ENSG00000114268
1.2469	0.10622	ENSG00000071082
1.2469	0.10622	ENSG00000166228
1.2467	0.10625	ENSG00000163468
1.2467	0.10626	ENSG00000213246
1.2465	0.10629	ENSG00000165632
-1.2463	0.89368	ENSG00000113248
1.2463	0.10633	ENSG00000149043
-1.2462	0.89366	ENSG00000178882
1.2462	0.10634	ENSG00000239332
1.2462	0.10634	ENSG00000215131
1.2461	0.10637	ENSG00000162687
-1.246	0.89362	ENSG00000074582
-1.2459	0.8936	ENSG00000123080
1.2458	0.10642	ENSG00000124279
1.2452	0.10653	ENSG00000132330
1.245	0.10657	ENSG00000162931
-1.2449	0.89341	ENSG00000165030
-1.2449	0.89341	ENSG00000140505
-1.2448	0.89339	ENSG00000010244
1.2448	0.1066	ENSG00000151475
1.2444	0.10667	ENSG00000132141
-1.2442	0.89329	ENSG00000066926
-1.2442	0.8933	ENSG00000157106
1.2442	0.10671	ENSG00000187514
1.2442	0.10672	ENSG00000125869
-1.244	0.89325	ENSG00000174233
1.2439	0.10677	ENSG00000134278
-1.2438	0.89321	ENSG00000244509
-1.2438	0.89322	ENSG00000141314
-1.2435	0.89317	ENSG00000141376
1.2435	0.10685	ENSG00000116771
1.243	0.10694	ENSG00000114861
-1.2429	0.89306	ENSG00000149480
-1.2427	0.893	ENSG00000152464
1.2427	0.10699	ENSG00000187166
-1.2426	0.893	ENSG00000144852
1.2425	0.10702	ENSG00000112276
-1.2424	0.89296	ENSG00000019485
-1.2419	0.89286	ENSG00000145833
-1.2419	0.89287	ENSG00000125484
1.2417	0.10717	ENSG00000112514
-1.2413	0.89275	ENSG00000169692
1.2411	0.10728	ENSG00000154856
1.2411	0.10729	ENSG00000033327
-1.241	0.8927	ENSG00000174428
1.2409	0.10733	ENSG00000197658

-1.2407	0.89264	ENSG00000248458
1.2407	0.10736	ENSG00000181631
1.2406	0.10738	ENSG00000166477
-1.2405	0.8926	ENSG00000116209
-1.2405	0.8926	ENSG00000180071
-1.2404	0.89258	ENSG00000137070
-1.2401	0.89254	ENSG00000152439
1.2399	0.1075	ENSG00000139641
1.2398	0.10752	ENSG00000168918
-1.2397	0.89245	ENSG00000179148
1.2395	0.10759	ENSG00000070915
1.2394	0.1076	ENSG00000178951
1.2394	0.10761	ENSG00000105402
1.2393	0.10761	ENSG00000026751
-1.2392	0.89236	ENSG00000214109
1.2388	0.1077	ENSG00000054690
1.2388	0.10772	ENSG00000131148
1.2387	0.10772	ENSG00000136286
1.2387	0.10773	ENSG00000115919
1.2383	0.10781	ENSG00000090581
1.2382	0.10782	ENSG00000182827
1.2382	0.10783	ENSG00000130640
1.2382	0.10783	ENSG00000069667
-1.2379	0.89212	ENSG00000182087
1.2379	0.10788	ENSG00000166343
-1.2378	0.8921	ENSG00000198732
1.2377	0.10792	ENSG00000135722
1.2376	0.10793	ENSG00000175535
1.2375	0.10796	ENSG00000151365
1.2374	0.10796	ENSG00000197943
1.2372	0.10801	ENSG00000163898
1.2372	0.10801	ENSG00000068650
-1.2371	0.89198	ENSG00000181767
-1.2369	0.89194	ENSG00000269417
1.2369	0.10806	ENSG00000135090
1.2367	0.10809	ENSG00000214978
1.2364	0.10815	ENSG00000174165
-1.2362	0.8918	ENSG00000151005
-1.2362	0.89181	ENSG00000103546
-1.2362	0.89182	ENSG00000065243
1.2361	0.1082	ENSG00000046604
1.2361	0.10821	ENSG00000178105
-1.2359	0.89175	ENSG00000178761
1.2358	0.10826	ENSG00000100243
1.2357	0.10828	ENSG00000234857
1.2356	0.10831	ENSG00000077458
1.2352	0.10839	ENSG00000125755
1.235	0.10842	ENSG00000100065
-1.2348	0.89155	ENSG00000151748
1.2347	0.10848	ENSG00000147679
1.2344	0.10852	ENSG00000186073

-1.2342	0.89144	ENSG00000119392
1.2341	0.10859	ENSG00000169660
1.2339	0.10862	ENSG00000172738
-1.2335	0.8913	ENSG00000170423
1.2335	0.1087	ENSG00000188324
1.2334	0.10872	ENSG00000164741
1.2333	0.10872	ENSG00000149294
-1.2332	0.89124	ENSG00000164116
1.233	0.10879	ENSG00000166902
-1.2327	0.89115	ENSG00000074410
1.2327	0.10885	ENSG00000171587
1.2326	0.10887	ENSG00000145945
1.2323	0.10892	ENSG00000185982
-1.2322	0.89106	ENSG00000126247
1.2322	0.10893	ENSG00000153914
1.2322	0.10894	ENSG00000137474
1.2322	0.10894	ENSG00000165416
-1.232	0.89103	ENSG00000130175
-1.232	0.89103	ENSG00000189001
-1.2319	0.891	ENSG00000253537
1.2318	0.10902	ENSG00000070961
1.2317	0.10903	ENSG00000179178
-1.2316	0.89095	ENSG00000198876
1.2309	0.10917	ENSG00000084072
1.2306	0.10924	ENSG00000265352
1.2304	0.10927	ENSG00000140092
1.2302	0.10931	ENSG00000145901
1.2299	0.10937	ENSG00000138092
-1.2296	0.89058	ENSG00000181827
-1.2295	0.89056	ENSG00000109390
-1.2295	0.89056	ENSG00000150054
-1.2293	0.89052	ENSG00000204632
-1.2293	0.89052	ENSG00000254673
1.2291	0.10952	ENSG00000103591
-1.2286	0.8904	ENSG00000165630
1.2283	0.10966	ENSG00000086548
-1.2281	0.8903	ENSG00000242441
1.228	0.10972	ENSG00000072849
1.2279	0.10974	ENSG00000173261
1.2278	0.10976	ENSG00000255798
-1.2276	0.89021	ENSG00000197226
-1.227	0.8901	ENSG00000106588
1.227	0.10992	ENSG00000198642
-1.2269	0.89008	ENSG00000163464
1.2266	0.10999	ENSG00000165633
1.2264	0.11002	ENSG00000155085
1.2264	0.11002	ENSG00000103569
1.2261	0.11007	ENSG00000090060
1.226	0.1101	ENSG00000197191
1.2259	0.11012	ENSG00000196704
1.2258	0.11013	ENSG00000137210

1.2257	0.11015	ENSG00000120549
1.2256	0.11018	ENSG00000171056
-1.2253	0.88977	ENSG00000136811
-1.2249	0.8897	ENSG00000127152
-1.2246	0.88964	ENSG00000137713
-1.2244	0.88959	ENSG00000117480
-1.2244	0.8896	ENSG00000099381
-1.2243	0.88958	ENSG00000124900
-1.2242	0.88956	ENSG00000131873
-1.224	0.88953	ENSG00000166527
1.2239	0.11049	ENSG00000136270
1.2239	0.1105	ENSG00000139718
1.2238	0.11051	ENSG00000188612
-1.2234	0.88941	ENSG00000104879
1.2234	0.11059	ENSG00000116898
-1.2232	0.88936	ENSG00000260230
1.2231	0.11064	ENSG00000160124
-1.2229	0.88932	ENSG00000243749
1.2228	0.11071	ENSG00000180818
-1.2225	0.88925	ENSG00000184497
1.2222	0.11081	ENSG00000111325
-1.222	0.88914	ENSG00000106789
-1.2219	0.88913	ENSG00000117280
-1.2218	0.8891	ENSG00000188396
-1.2218	0.88912	ENSG00000139505
1.2218	0.11089	ENSG00000065000
1.2217	0.11091	ENSG00000163596
-1.2215	0.88906	ENSG00000004779
1.2215	0.11096	ENSG00000096063
-1.2212	0.88899	ENSG00000122012
-1.2212	0.88899	ENSG00000253953
-1.2211	0.88897	ENSG00000180530
-1.2211	0.88898	ENSG00000154127
1.221	0.11104	ENSG00000145740
-1.2206	0.88888	ENSG00000160633
-1.2205	0.88886	ENSG00000213927
-1.2203	0.88883	ENSG00000152253
1.2202	0.11119	ENSG00000147613
-1.2201	0.88879	ENSG00000149124
1.2199	0.11125	ENSG00000189182
-1.2198	0.88873	ENSG00000149499
-1.2197	0.88871	ENSG00000133256
-1.2196	0.8887	ENSG00000269679
-1.2191	0.8886	ENSG00000186334
1.219	0.11142	ENSG00000144366
-1.2186	0.8885	ENSG00000169122
-1.2185	0.88849	ENSG00000140254
1.2183	0.11155	ENSG00000205328
-1.2182	0.88842	ENSG00000212128
1.2181	0.11159	ENSG00000121417
1.218	0.11162	ENSG00000128463

-1.2179	0.88837	ENSG00000135299
1.2179	0.11163	ENSG00000185561
1.2179	0.11163	ENSG00000100299
-1.2177	0.88833	ENSG00000172201
-1.2177	0.88833	ENSG00000167311
1.2173	0.11174	ENSG00000152939
1.2172	0.11176	ENSG00000112837
1.217	0.11118	ENSG00000173163
1.217	0.11181	ENSG00000197953
-1.2168	0.88817	ENSG00000152642
-1.2165	0.8881	ENSG00000144824
-1.2165	0.8881	ENSG00000197140
-1.2165	0.88811	ENSG00000115963
1.2161	0.11197	ENSG00000165923
-1.2156	0.88793	ENSG00000163875
-1.2154	0.8879	ENSG00000112078
1.2153	0.11212	ENSG00000085511
1.2152	0.11215	ENSG00000163689
-1.215	0.88783	ENSG00000153291
1.215	0.11218	ENSG00000012963
1.2148	0.11221	ENSG00000078549
1.2148	0.11222	ENSG00000134574
-1.2142	0.88767	ENSG00000177047
-1.2142	0.88767	ENSG00000132623
1.2141	0.11236	ENSG00000143494
1.214	0.11238	ENSG00000163632
-1.2139	0.88761	ENSG00000139154
-1.2138	0.88759	ENSG00000234409
1.2138	0.11241	ENSG00000159496
-1.2137	0.88758	ENSG00000100650
1.2132	0.11253	ENSG00000109181
1.2132	0.11253	ENSG00000267360
1.2131	0.11254	ENSG00000140836
-1.2127	0.88739	ENSG00000198858
1.2126	0.11263	ENSG00000181222
1.2125	0.11265	ENSG00000165275
1.2125	0.11266	ENSG00000178078
1.2123	0.11269	ENSG00000198740
1.2119	0.11278	ENSG00000154258
-1.2116	0.88717	ENSG00000127540
-1.2115	0.88715	ENSG00000180861
-1.2114	0.88713	ENSG00000178206
-1.2111	0.88707	ENSG00000168522
1.2111	0.11293	ENSG00000163617
1.211	0.11295	ENSG00000113303
1.2105	0.11305	ENSG00000111859
1.2105	0.11305	ENSG00000188771
-1.2103	0.88692	ENSG00000174628
1.21	0.11314	ENSG00000094796
-1.2096	0.88678	ENSG00000197535
1.2096	0.11321	ENSG00000115221

-1.2094	0.88674	ENSG00000087157
1.2094	0.11325	ENSG00000107020
-1.2093	0.88673	ENSG00000177731
1.2091	0.11331	ENSG00000141551
-1.209	0.88668	ENSG00000197748
1.2088	0.11337	ENSG00000213123
-1.2084	0.88656	ENSG00000215595
1.2083	0.11346	ENSG00000106003
1.2083	0.11346	ENSG00000108588
1.2081	0.1135	ENSG00000116885
1.2081	0.1135	ENSG00000163882
1.2081	0.11351	ENSG00000127472
-1.2078	0.88644	ENSG00000260240
1.2078	0.11356	ENSG00000172247
-1.2077	0.88642	ENSG00000006114
-1.2077	0.88643	ENSG00000033178
1.2077	0.11358	ENSG00000119411
1.2076	0.1136	ENSG00000146385
-1.2074	0.88635	ENSG00000137463
1.2073	0.11366	ENSG00000186106
1.2071	0.11371	ENSG00000254093
1.207	0.11371	ENSG00000115896
1.207	0.11372	ENSG00000101180
1.2068	0.11375	ENSG00000008282
1.2067	0.11378	ENSG00000172403
-1.2066	0.88621	ENSG00000204352
1.2066	0.11379	ENSG00000164649
1.2065	0.1138	ENSG00000249961
-1.2063	0.88615	ENSG00000187801
1.2063	0.11386	ENSG00000169519
1.2063	0.11386	ENSG00000189120
1.2061	0.11389	ENSG00000151229
1.206	0.11391	ENSG00000184163
1.206	0.11391	ENSG00000143748
1.206	0.11391	ENSG00000144451
1.2058	0.11396	ENSG00000181938
-1.2056	0.88602	ENSG00000188582
-1.2056	0.88602	ENSG00000101181
1.2056	0.11398	ENSG00000100453
1.2051	0.11408	ENSG00000214753
1.2051	0.11408	ENSG00000196465
1.2049	0.11411	ENSG00000255587
-1.2048	0.88586	ENSG00000157593
1.2047	0.11417	ENSG00000185104
-1.2042	0.88575	ENSG00000125726
1.204	0.11429	ENSG00000103494
1.204	0.1143	ENSG00000092096
-1.2039	0.88568	ENSG00000100285
1.2039	0.11432	ENSG00000159692
1.2038	0.11433	ENSG00000152785
-1.2036	0.88562	ENSG00000253767

-1.2035	0.88561	ENSG00000148671
1.2034	0.1144	ENSG00000168890
1.2034	0.11441	ENSG00000004939
1.2033	0.11444	ENSG00000172995
1.2032	0.11444	ENSG00000116957
1.2032	0.11446	ENSG00000099338
1.2031	0.11447	ENSG00000198964
-1.203	0.88551	ENSG00000131979
1.2029	0.11452	ENSG00000125246
1.2028	0.11453	ENSG00000168497
1.2028	0.11453	ENSG00000211584
-1.2025	0.88541	ENSG00000101407
1.2024	0.11461	ENSG00000115355
-1.202	0.88532	ENSG00000122386
1.2017	0.11475	ENSG00000224474
1.2015	0.11479	ENSG00000141219
-1.2013	0.88519	ENSG00000101695
1.2013	0.11481	ENSG00000159792
-1.2012	0.88515	ENSG00000159527
1.2012	0.11483	ENSG00000272636
-1.2008	0.88509	ENSG00000164620
-1.2008	0.88509	ENSG00000216937
1.2008	0.11492	ENSG00000167528
1.2006	0.11494	ENSG00000109911
1.2002	0.11502	ENSG00000123219
1.2002	0.11503	ENSG00000072274
-1.2001	0.88495	ENSG00000170836
-1.1999	0.88492	ENSG00000005156
-1.1998	0.88489	ENSG00000254245
-1.1998	0.8849	ENSG00000255152
1.1998	0.1151	ENSG00000112964
1.1997	0.11512	ENSG00000107833
1.1995	0.11517	ENSG00000259040
1.1995	0.11517	ENSG00000141447
1.1995	0.11518	ENSG00000158769
-1.1992	0.88478	ENSG00000155760
1.1992	0.11523	ENSG00000167711
1.1991	0.11524	ENSG00000102901
-1.199	0.88473	ENSG00000154188
-1.199	0.88474	ENSG00000244411
-1.1989	0.88473	ENSG00000144355
1.1989	0.11528	ENSG00000148943
1.1989	0.11529	ENSG00000134716
-1.1988	0.88469	ENSG00000213937
-1.1988	0.8847	ENSG00000160318
1.1988	0.11531	ENSG00000118369
-1.1983	0.8846	ENSG00000163637
1.1982	0.11542	ENSG00000197753
1.1982	0.11542	ENSG00000134571
1.1981	0.11545	ENSG00000229314
1.1979	0.11548	ENSG00000139874

-1.1978	0.8845	ENSG00000229615
1.1978	0.11551	ENSG00000117335
-1.1977	0.88448	ENSG00000178462
-1.1977	0.88449	ENSG00000260916
1.1977	0.11552	ENSG00000128923
1.1973	0.11559	ENSG00000138028
1.1973	0.11559	ENSG00000163840
-1.1972	0.88438	ENSG00000196365
-1.1972	0.88438	ENSG00000188694
1.1972	0.11562	ENSG00000167447
1.1971	0.11563	ENSG00000258724
-1.1969	0.88434	ENSG00000172689
1.1969	0.11566	ENSG00000143933
1.1969	0.11567	ENSG00000161956
1.1964	0.11576	ENSG00000116218
1.1963	0.11578	ENSG00000139880
1.1962	0.11581	ENSG00000163412
1.1962	0.11582	ENSG00000097007
1.1962	0.11582	ENSG00000160613
1.1961	0.11583	ENSG00000123901
-1.1959	0.88413	ENSG00000197747
-1.1958	0.88412	ENSG00000143889
1.1958	0.11588	ENSG00000141994
1.1958	0.1159	ENSG00000101323
-1.1957	0.88409	ENSG00000105669
1.1957	0.11591	ENSG00000172428
1.1957	0.11591	ENSG00000121570
1.1957	0.11591	ENSG00000180767
1.1957	0.11592	ENSG00000176125
1.1955	0.11594	ENSG00000103942
-1.1953	0.88402	ENSG00000004399
-1.1951	0.88398	ENSG00000142235
1.195	0.11605	ENSG00000187792
-1.1949	0.88393	ENSG00000024422
1.1946	0.11613	ENSG00000146700
1.1945	0.11614	ENSG00000205060
-1.1942	0.88381	ENSG00000157778
1.1942	0.11619	ENSG00000133816
1.1942	0.11621	ENSG00000095637
1.194	0.11623	ENSG00000185924
1.194	0.11624	ENSG00000152749
-1.1938	0.88372	ENSG00000213689
-1.1933	0.88362	ENSG00000178996
-1.1933	0.88362	ENSG00000124568
-1.1933	0.88362	ENSG00000111671
1.1933	0.11639	ENSG00000197965
1.1932	0.11639	ENSG00000125731
1.1931	0.11641	ENSG00000165059
1.1929	0.11645	ENSG00000127922
-1.1928	0.88353	ENSG00000107159
-1.1924	0.88344	ENSG00000228146

-1.1922	0.88341	ENSG00000173535
1.1921	0.11661	ENSG00000183484
-1.1919	0.88334	ENSG00000197361
-1.1917	0.88331	ENSG00000178966
1.1917	0.11668	ENSG00000167323
-1.1916	0.88328	ENSG00000137571
-1.1916	0.8833	ENSG00000124613
1.1915	0.11673	ENSG00000008441
-1.1914	0.88325	ENSG00000117593
1.1911	0.1168	ENSG00000106211
1.191	0.11683	ENSG00000119318
1.1909	0.11684	ENSG00000088881
1.1909	0.11684	ENSG00000100341
-1.1906	0.88309	ENSG00000253485
1.1904	0.11695	ENSG00000213221
-1.19	0.88297	ENSG00000139767
-1.1899	0.88297	ENSG00000137726
-1.1898	0.88293	ENSG00000007168
-1.1898	0.88295	ENSG00000197124
1.1898	0.11707	ENSG00000140835
-1.1897	0.88293	ENSG00000215712
-1.1896	0.88289	ENSG00000131931
-1.1896	0.88289	ENSG00000167968
-1.1895	0.88288	ENSG00000155975
-1.1894	0.88285	ENSG00000160654
1.1894	0.11713	ENSG00000198453
-1.1893	0.88284	ENSG00000183733
1.1891	0.11719	ENSG00000188523
-1.1888	0.88274	ENSG00000100888
1.1886	0.1173	ENSG00000061492
1.1886	0.1173	ENSG00000100473
1.1886	0.11731	ENSG00000023697
-1.1885	0.88267	ENSG00000152936
-1.1885	0.88268	ENSG00000003402
-1.1883	0.88265	ENSG00000260300
1.1883	0.11737	ENSG00000257127
-1.1878	0.88254	ENSG00000108784
-1.1877	0.88252	ENSG00000272647
1.1877	0.11748	ENSG00000132153
-1.1871	0.8824	ENSG00000155657
1.1871	0.11759	ENSG00000168944
1.1869	0.11763	ENSG00000182054
-1.1866	0.8823	ENSG00000189337
1.1866	0.11769	ENSG00000186439
1.1866	0.11769	ENSG00000149289
1.1866	0.1177	ENSG00000158560
1.1864	0.11773	ENSG00000115607
1.1863	0.11774	ENSG00000106565
1.1863	0.11775	ENSG00000005249
1.1862	0.11777	ENSG00000124194
1.1861	0.1178	ENSG00000116754

1.1858	0.11785	ENSG00000112699
1.1857	0.11787	ENSG00000133056
1.1857	0.11787	ENSG00000203908
-1.1854	0.88206	ENSG00000077943
-1.1851	0.88201	ENSG00000258472
-1.185	0.88199	ENSG00000100056
-1.185	0.882	ENSG00000171603
-1.1849	0.88197	ENSG00000104889
-1.1847	0.88192	ENSG00000157540
-1.1846	0.88191	ENSG00000251322
1.1845	0.1181	ENSG00000163466
1.1844	0.11814	ENSG00000164099
-1.1842	0.88183	ENSG00000171224
-1.1839	0.88178	ENSG00000161021
1.1837	0.11826	ENSG00000146112
-1.1836	0.88172	ENSG00000196576
-1.1835	0.88169	ENSG00000150316
1.1831	0.11839	ENSG00000183032
1.1828	0.11845	ENSG00000167900
1.1827	0.11847	ENSG00000198056
-1.1826	0.88153	ENSG00000102921
1.1826	0.11848	ENSG00000116698
1.1825	0.11851	ENSG00000141127
1.1824	0.11852	ENSG00000129071
1.1822	0.11856	ENSG00000050130
-1.1821	0.88141	ENSG00000143093
1.1821	0.11858	ENSG00000125912
1.182	0.1186	ENSG00000142611
1.182	0.1186	ENSG00000205186
1.182	0.1186	ENSG00000233816
1.1819	0.11863	ENSG00000133114
-1.1818	0.88137	ENSG00000113231
-1.1816	0.88132	ENSG00000214078
1.1816	0.11869	ENSG00000133083
-1.1815	0.8813	ENSG00000148386
1.1815	0.11871	ENSG00000090615
1.1814	0.11872	ENSG00000151640
-1.1813	0.88125	ENSG00000255275
-1.1809	0.88117	ENSG00000177666
1.1805	0.11889	ENSG00000019144
-1.1804	0.88108	ENSG00000147606
1.18	0.11901	ENSG00000035141
1.1797	0.11906	ENSG00000177558
1.1797	0.11906	ENSG00000198355
1.1796	0.11907	ENSG00000272573
1.1794	0.11912	ENSG00000146282
-1.1793	0.88086	ENSG00000188243
-1.1791	0.88082	ENSG00000244355
-1.1789	0.88079	ENSG00000174038
1.1788	0.11923	ENSG00000173088
1.1787	0.11925	ENSG00000120156

-1.1782	0.88064	ENSG00000064195
-1.1781	0.88061	ENSG00000010165
-1.1781	0.88062	ENSG00000255245
1.1779	0.11942	ENSG00000132768
1.1777	0.11945	ENSG00000172006
-1.1775	0.8805	ENSG00000106113
1.1775	0.11949	ENSG00000184321
1.1772	0.11956	ENSG00000012061
-1.177	0.8804	ENSG00000213445
1.1768	0.11964	ENSG00000177476
1.1768	0.11965	ENSG00000175911
-1.1764	0.88029	ENSG00000151090
1.1764	0.11972	ENSG00000222007
1.1763	0.11975	ENSG00000007062
-1.1762	0.88025	ENSG00000267228
-1.1761	0.88022	ENSG00000006695
1.1761	0.11977	ENSG00000205336
1.1761	0.11978	ENSG00000141480
1.176	0.1198	ENSG00000111837
-1.1759	0.88017	ENSG00000042286
-1.1758	0.88017	ENSG00000205853
1.1758	0.11984	ENSG00000100968
1.1755	0.11989	ENSG00000214517
1.1755	0.1199	ENSG00000176597
-1.1753	0.88006	ENSG00000168484
-1.1753	0.88007	ENSG00000111319
1.1753	0.11993	ENSG00000109971
1.1752	0.11996	ENSG00000121053
-1.175	0.88	ENSG00000132305
1.1748	0.12004	ENSG00000181656
-1.1747	0.87995	ENSG00000174197
1.1747	0.12006	ENSG00000122406
-1.1746	0.87992	ENSG00000241186
-1.1745	0.87991	ENSG00000164611
1.1744	0.12012	ENSG00000186111
-1.1743	0.87986	ENSG00000072694
-1.1738	0.87977	ENSG00000138685
1.1738	0.12023	ENSG00000169184
-1.1736	0.87972	ENSG00000242612
-1.1735	0.87969	ENSG00000110195
1.1735	0.1203	ENSG00000134255
1.1735	0.1203	ENSG00000155629
1.1735	0.1203	ENSG00000187079
-1.1734	0.87969	ENSG00000204410
-1.1732	0.87965	ENSG00000128694
-1.1728	0.87955	ENSG00000122136
-1.1726	0.87952	ENSG00000166923
1.1721	0.12057	ENSG00000248713
1.1716	0.12068	ENSG00000204287
-1.1715	0.8793	ENSG00000184500
-1.1712	0.87923	ENSG00000132128

1.1712	0.12077	ENSG00000196510
1.1707	0.12085	ENSG00000108272
-1.1706	0.87912	ENSG00000103353
-1.1705	0.8791	ENSG00000065534
-1.1705	0.87911	ENSG00000130313
1.1704	0.12092	ENSG00000178401
-1.1703	0.87905	ENSG00000139438
-1.1702	0.87904	ENSG00000261796
-1.1701	0.87903	ENSG00000244462
1.1699	0.12102	ENSG00000106038
1.1698	0.12103	ENSG00000171033
-1.1696	0.87891	ENSG00000198146
-1.1696	0.87893	ENSG00000173581
-1.1695	0.8789	ENSG00000133393
1.1695	0.12111	ENSG00000116874
1.1694	0.12112	ENSG00000109854
-1.169	0.87881	ENSG00000164983
-1.1688	0.87876	ENSG00000175018
1.1688	0.12124	ENSG00000259371
1.1683	0.12134	ENSG00000163635
1.1683	0.12135	ENSG00000270316
-1.168	0.87859	ENSG00000115935
1.1679	0.12142	ENSG00000187950
1.1678	0.12145	ENSG00000177181
-1.1677	0.87854	ENSG00000261934
-1.1676	0.87851	ENSG00000186919
1.1675	0.12151	ENSG00000213760
1.1673	0.12153	ENSG00000071203
-1.1672	0.87843	ENSG00000160194
-1.1672	0.87844	ENSG00000130402
1.1672	0.12156	ENSG00000084234
-1.1671	0.87842	ENSG00000132792
1.1671	0.12158	ENSG00000182504
1.1666	0.12168	ENSG00000109771
1.1666	0.12169	ENSG00000171060
1.1665	0.12171	ENSG00000067334
-1.1664	0.87827	ENSG00000204525
-1.1664	0.87828	ENSG00000180245
1.1664	0.12172	ENSG00000157379
-1.1663	0.87826	ENSG00000205502
1.1662	0.12177	ENSG00000163166
-1.166	0.8782	ENSG00000148344
-1.1658	0.87816	ENSG00000011376
-1.1657	0.87813	ENSG00000089280
1.1655	0.1219	ENSG00000121743
1.1651	0.12199	ENSG00000075303
1.1651	0.122	ENSG00000198580
-1.165	0.87799	ENSG00000197355
-1.165	0.87799	ENSG00000205864
1.165	0.12201	ENSG00000144481
1.1649	0.12203	ENSG00000204366

-1.1648	0.87795	ENSG00000119280
-1.1648	0.87796	ENSG00000187922
-1.1647	0.87793	ENSG00000160181
-1.1644	0.87788	ENSG00000174951
1.1643	0.12215	ENSG00000157353
-1.1636	0.8777	ENSG00000105246
-1.1633	0.87764	ENSG00000204542
-1.1633	0.87764	ENSG00000076826
1.1633	0.12234	ENSG00000187258
1.1632	0.12236	ENSG00000178053
-1.1627	0.87751	ENSG00000161980
1.1625	0.12252	ENSG00000137642
1.1625	0.12252	ENSG00000167487
1.1622	0.12258	ENSG00000111412
1.162	0.12262	ENSG00000103061
1.1617	0.12268	ENSG00000110367
-1.1616	0.87729	ENSG00000149435
-1.1612	0.87722	ENSG00000132423
1.1612	0.12278	ENSG00000180138
1.1611	0.1228	ENSG00000104064
-1.1608	0.87713	ENSG00000062524
1.1603	0.12296	ENSG00000130643
-1.1602	0.87702	ENSG00000267882
1.1601	0.12301	ENSG00000105509
1.1599	0.12304	ENSG00000184792
1.1597	0.12308	ENSG00000106304
1.1597	0.12308	ENSG00000141294
-1.1593	0.87683	ENSG00000178700
-1.1593	0.87683	ENSG00000108799
-1.1593	0.87684	ENSG00000173040
1.1593	0.12317	ENSG00000174483
1.1593	0.12318	ENSG00000221813
-1.1591	0.87679	ENSG00000136295
-1.1591	0.87679	ENSG00000130590
1.1588	0.12328	ENSG00000214575
1.1587	0.12328	ENSG00000260234
-1.1584	0.87665	ENSG00000091947
1.1584	0.12335	ENSG00000113282
1.1583	0.12336	ENSG00000134193
-1.1582	0.8766	ENSG00000214376
1.158	0.12344	ENSG00000176742
1.158	0.12344	ENSG00000185105
1.1579	0.12344	ENSG00000079557
1.1576	0.1235	ENSG00000100097
1.1576	0.12351	ENSG00000138160
1.1576	0.12351	ENSG00000169488
-1.1575	0.87647	ENSG00000137185
1.1574	0.12355	ENSG00000149651
1.1573	0.12358	ENSG00000254986
-1.1572	0.87641	ENSG00000122026
1.1571	0.12362	ENSG00000055813

1.1571	0.12362	ENSG00000259494
1.1571	0.12363	ENSG00000144218
-1.1569	0.87635	ENSG00000187626
1.1567	0.1237	ENSG00000179837
1.1567	0.12371	ENSG00000100836
-1.1566	0.87628	ENSG00000186190
1.1565	0.12374	ENSG00000088682
-1.1564	0.87623	ENSG00000130338
1.1563	0.12377	ENSG00000170222
1.1562	0.1238	ENSG00000064995
-1.1561	0.87618	ENSG00000249319
1.156	0.12383	ENSG00000142634
-1.1559	0.87614	ENSG00000156959
-1.1558	0.87613	ENSG00000268885
1.1558	0.12388	ENSG00000271786
1.1555	0.12394	ENSG00000109501
1.1555	0.12394	ENSG00000186866
1.1554	0.12396	ENSG00000164627
1.1554	0.12397	ENSG00000181588
-1.1552	0.87599	ENSG00000028839
1.1551	0.12402	ENSG00000122574
1.1551	0.12403	ENSG00000164451
1.155	0.12404	ENSG00000015475
1.155	0.12405	ENSG00000146411
-1.1546	0.87587	ENSG00000205884
1.1546	0.12413	ENSG00000068489
-1.1545	0.87585	ENSG00000256655
-1.1544	0.87584	ENSG00000175445
-1.154	0.87576	ENSG00000203286
-1.1538	0.87572	ENSG00000272897
-1.1537	0.87569	ENSG00000085999
1.1537	0.12432	ENSG00000185760
-1.1534	0.87563	ENSG00000188375
-1.1533	0.87561	ENSG00000157554
1.1533	0.1244	ENSG00000212724
1.1532	0.12442	ENSG00000030419
-1.153	0.87555	ENSG00000186193
1.1529	0.12448	ENSG00000123684
-1.1528	0.8755	ENSG00000198601
-1.1528	0.87551	ENSG00000174705
-1.1528	0.87551	ENSG00000127080
-1.1527	0.87549	ENSG00000161204
1.1527	0.12452	ENSG00000143418
-1.1526	0.87546	ENSG00000118292
1.1526	0.12453	ENSG00000113327
1.1525	0.12455	ENSG00000007866
-1.1524	0.87543	ENSG00000174748
-1.1524	0.87543	ENSG00000145936
-1.1523	0.87541	ENSG00000213471
-1.1522	0.87539	ENSG00000136143
1.1519	0.12468	ENSG00000205420

-1.1517	0.87528	ENSG00000100012
-1.1514	0.87521	ENSG00000257923
1.1513	0.12481	ENSG00000138442
1.1513	0.12481	ENSG00000166508
-1.1512	0.87518	ENSG00000164675
1.1511	0.12484	ENSG00000183621
-1.1507	0.87506	ENSG00000237524
1.1507	0.12493	ENSG00000064692
-1.1505	0.87503	ENSG00000110852
-1.1503	0.87499	ENSG00000109189
-1.15	0.87493	ENSG00000138587
-1.1498	0.87488	ENSG00000184347
-1.1497	0.87487	ENSG00000160183
-1.1495	0.87483	ENSG00000099849
1.1494	0.12519	ENSG00000259431
1.1494	0.1252	ENSG00000160190
1.1492	0.12525	ENSG00000165553
1.1491	0.12526	ENSG00000114200
1.149	0.12527	ENSG00000255872
1.1489	0.1253	ENSG00000162526
1.1488	0.12533	ENSG00000256349
-1.1487	0.87465	ENSG00000108107
1.1485	0.12537	ENSG00000141524
1.1484	0.12541	ENSG00000253313
1.1483	0.12542	ENSG00000126804
1.1483	0.12543	ENSG00000112494
-1.1481	0.87454	ENSG00000168350
1.1481	0.12545	ENSG00000111530
-1.148	0.87451	ENSG00000163746
1.148	0.12548	ENSG00000142408
-1.1478	0.87447	ENSG00000090971
-1.1477	0.87446	ENSG00000183729
1.1476	0.12556	ENSG00000102753
1.1473	0.12564	ENSG00000131480
-1.1471	0.87433	ENSG00000121022
-1.1471	0.87433	ENSG00000245888
1.147	0.1257	ENSG00000236279
1.1469	0.12571	ENSG00000025156
1.1469	0.12571	ENSG00000023839
1.1469	0.12571	ENSG00000172531
1.1468	0.12574	ENSG00000185238
1.1468	0.12574	ENSG00000140280
1.1465	0.1258	ENSG00000198952
1.1463	0.12584	ENSG00000101074
1.1462	0.12587	ENSG00000198077
-1.1458	0.87406	ENSG00000104635
1.1458	0.12594	ENSG00000185290
1.1457	0.12595	ENSG00000025423
-1.1456	0.87401	ENSG00000232268
1.1456	0.12597	ENSG00000136275
1.1454	0.12601	ENSG00000151948

-1.1452	0.87394	ENSG00000172780
-1.1452	0.87394	ENSG00000013725
1.1452	0.12607	ENSG00000119913
-1.1451	0.87391	ENSG00000197213
1.1451	0.12608	ENSG00000181991
-1.145	0.8739	ENSG00000136048
1.1449	0.12613	ENSG00000117020
-1.1447	0.87383	ENSG00000100023
-1.1447	0.87384	ENSG00000091986
1.1446	0.12619	ENSG00000158458
-1.1444	0.87378	ENSG00000169180
1.1444	0.12624	ENSG00000213888
-1.1443	0.87375	ENSG00000162510
1.1442	0.12628	ENSG00000126062
-1.1441	0.87371	ENSG00000185900
1.1439	0.12633	ENSG00000267467
1.1439	0.12633	ENSG00000224916
1.1437	0.12637	ENSG00000117036
-1.1433	0.87354	ENSG00000069011
-1.1433	0.87355	ENSG00000267941
1.1432	0.12648	ENSG00000177752
-1.1428	0.87344	ENSG00000125746
1.1428	0.12656	ENSG00000100567
-1.1427	0.87341	ENSG00000197165
1.1427	0.12659	ENSG00000117385
-1.1426	0.8734	ENSG00000112343
-1.1426	0.8734	ENSG00000124701
1.1426	0.1266	ENSG00000158477
1.1425	0.12662	ENSG00000107796
1.1423	0.12667	ENSG00000103534
1.1423	0.12667	ENSG00000100360
-1.1421	0.8733	ENSG00000186765
-1.1418	0.87323	ENSG00000119737
-1.1417	0.87322	ENSG00000131507
-1.1415	0.87316	ENSG00000136813
-1.1415	0.87317	ENSG00000068120
1.1415	0.12683	ENSG00000164082
1.1415	0.12684	ENSG00000137413
-1.1414	0.87316	ENSG00000092470
1.1413	0.12688	ENSG00000122140
-1.141	0.87306	ENSG00000179909
1.1407	0.12699	ENSG00000158941
1.1407	0.12701	ENSG00000244734
-1.1406	0.87297	ENSG00000028116
1.1406	0.12702	ENSG00000049860
-1.1404	0.87294	ENSG00000139194
-1.1396	0.87276	ENSG00000153446
-1.1395	0.87276	ENSG00000136122
1.1395	0.12725	ENSG00000169609
-1.1394	0.87273	ENSG00000137414
-1.1394	0.87273	ENSG00000137492

1.1394	0.12727	ENSG00000132581
1.1393	0.1273	ENSG00000169251
-1.1392	0.87268	ENSG00000143727
1.1392	0.12732	ENSG00000151224
-1.139	0.87265	ENSG00000122224
1.1389	0.12737	ENSG00000215549
-1.1388	0.8726	ENSG00000216560
-1.1385	0.87255	ENSG00000070214
-1.1383	0.87251	ENSG00000174885
1.1378	0.1276	ENSG00000185385
-1.1376	0.87235	ENSG00000137473
1.1376	0.12765	ENSG00000184276
-1.1375	0.87234	ENSG00000269237
-1.1373	0.8723	ENSG00000109047
-1.1367	0.87216	ENSG00000145868
-1.1366	0.87215	ENSG00000187556
1.1365	0.12788	ENSG00000124688
1.1363	0.12792	ENSG00000126778
-1.1362	0.87206	ENSG00000143194
1.1361	0.12795	ENSG00000110013
1.1359	0.128	ENSG00000157326
-1.1358	0.87197	ENSG00000197037
1.1358	0.12802	ENSG00000182393
-1.1357	0.87195	ENSG00000173846
-1.1356	0.87194	ENSG00000197912
1.1356	0.12806	ENSG00000214097
1.1352	0.12814	ENSG00000173213
1.1348	0.12823	ENSG00000269155
-1.1347	0.87174	ENSG00000141639
-1.1342	0.87164	ENSG00000072110
1.1342	0.12835	ENSG00000039068
1.1339	0.12842	ENSG00000050327
-1.1337	0.87154	ENSG00000119950
-1.1337	0.87155	ENSG00000129038
1.1336	0.12847	ENSG00000136960
-1.1335	0.87149	ENSG00000165495
-1.1335	0.8715	ENSG00000214167
1.1335	0.12849	ENSG00000074803
1.1335	0.1285	ENSG00000203663
1.1331	0.12859	ENSG00000223601
1.1328	0.12864	ENSG00000006652
1.1326	0.12869	ENSG00000130544
1.1321	0.12879	ENSG00000162639
1.1321	0.1288	ENSG00000164105
1.132	0.12881	ENSG00000186564
1.132	0.12882	ENSG00000198780
-1.1313	0.87103	ENSG00000137871
-1.1312	0.87102	ENSG00000177200
1.1311	0.12901	ENSG00000115540
-1.1308	0.87094	ENSG00000156052
1.1307	0.12909	ENSG00000167670

1.1306	0.1291	ENSG00000112624
1.1305	0.12913	ENSG00000152969
-1.1301	0.87079	ENSG00000178913
1.1301	0.12922	ENSG00000145692
1.1297	0.12929	ENSG00000164120
-1.1295	0.87065	ENSG00000168476
-1.1293	0.87061	ENSG00000137040
-1.1292	0.87059	ENSG00000158806
1.1289	0.12947	ENSG00000215012
-1.1288	0.87051	ENSG00000110104
-1.1287	0.87049	ENSG00000253305
-1.1282	0.87039	ENSG00000100612
1.1281	0.12964	ENSG00000170445
-1.1276	0.87026	ENSG00000170776
1.1275	0.12977	ENSG00000132746
-1.1273	0.87019	ENSG00000164344
1.1273	0.12981	ENSG00000206190
1.127	0.12987	ENSG00000116138
1.1269	0.12989	ENSG00000165046
1.1267	0.12993	ENSG00000096080
1.1267	0.12993	ENSG00000205441
1.1267	0.12994	ENSG00000099326
1.1266	0.12996	ENSG00000100276
-1.1264	0.87	ENSG00000170929
-1.1264	0.87	ENSG00000167625
1.1264	0.13	ENSG00000059573
1.1261	0.13005	ENSG00000143850
-1.126	0.86992	ENSG00000175110
-1.1259	0.86989	ENSG00000182400
-1.1257	0.86984	ENSG00000047617
1.1254	0.1302	ENSG00000085265
1.1254	0.13021	ENSG00000255104
1.1253	0.13022	ENSG00000154330
-1.1249	0.86968	ENSG00000107882
-1.1249	0.86969	ENSG00000182631
-1.1248	0.86965	ENSG00000171055
-1.1246	0.86962	ENSG00000116852
1.1245	0.13041	ENSG00000133067
-1.1241	0.86952	ENSG00000197930
-1.124	0.86949	ENSG00000139190
-1.124	0.8695	ENSG00000131238
-1.1239	0.86947	ENSG00000184774
1.1238	0.13055	ENSG00000075884
1.1238	0.13056	ENSG00000243444
-1.1236	0.8694	ENSG00000136758
-1.1232	0.86932	ENSG00000109618
1.1232	0.13068	ENSG00000221990
-1.1231	0.86931	ENSG00000179253
1.1231	0.1307	ENSG00000011405
-1.123	0.86929	ENSG00000213853
1.1227	0.13078	ENSG00000182183

1.1227	0.13079	ENSG00000130755
-1.1221	0.8691	ENSG00000150676
-1.1219	0.86905	ENSG00000175115
-1.1217	0.869	ENSG00000070404
1.1216	0.13102	ENSG00000130024
1.1214	0.13105	ENSG00000102893
1.1211	0.13112	ENSG00000113719
1.121	0.13114	ENSG00000152611
-1.1209	0.86883	ENSG00000272195
-1.1209	0.86884	ENSG00000126522
1.1209	0.13116	ENSG00000175315
-1.1208	0.86881	ENSG00000068001
-1.1207	0.86879	ENSG00000273173
-1.1206	0.86877	ENSG00000171425
-1.1205	0.86876	ENSG00000072864
1.1203	0.13128	ENSG00000117748
1.1199	0.13137	ENSG00000187840
1.1198	0.13141	ENSG00000156976
1.1198	0.13141	ENSG00000181616
1.1195	0.13146	ENSG00000100342
1.1195	0.13147	ENSG00000122786
-1.1194	0.86851	ENSG00000139990
1.1194	0.13149	ENSG00000151079
-1.1193	0.8685	ENSG00000171133
1.1193	0.13151	ENSG00000158717
1.1192	0.13153	ENSG00000147874
1.1189	0.13158	ENSG00000186297
1.1183	0.13173	ENSG00000163931
-1.1182	0.86826	ENSG00000121481
1.118	0.13178	ENSG00000270149
1.1178	0.13183	ENSG00000104133
-1.1177	0.86814	ENSG00000213339
-1.1177	0.86815	ENSG00000057608
1.1176	0.13187	ENSG00000169814
1.1172	0.13194	ENSG00000083067
1.1169	0.13201	ENSG00000168060
-1.1167	0.86794	ENSG00000169218
-1.1167	0.86794	ENSG00000103485
-1.1164	0.86787	ENSG00000112164
1.1164	0.13212	ENSG00000167987
1.1164	0.13213	ENSG00000174059
1.1163	0.13215	ENSG00000064042
-1.1162	0.86782	ENSG00000117013
1.1162	0.13217	ENSG00000148700
1.1161	0.1322	ENSG00000237515
-1.1159	0.86777	ENSG00000104055
-1.1159	0.86778	ENSG00000257950
-1.1156	0.86769	ENSG00000164938
-1.1156	0.8677	ENSG00000172232
1.1155	0.13231	ENSG00000105696
1.1152	0.13237	ENSG00000176540

-1.1149	0.86756	ENSG00000134817
1.1145	0.13253	ENSG00000143862
-1.1142	0.8674	ENSG00000101294
-1.1141	0.86738	ENSG00000153498
1.1138	0.13268	ENSG00000185163
1.1137	0.13269	ENSG00000114999
1.1133	0.13278	ENSG00000138380
-1.1132	0.8672	ENSG00000101452
1.1132	0.13281	ENSG00000105983
1.1132	0.13281	ENSG00000176973
-1.1131	0.86718	ENSG00000175606
1.1129	0.13288	ENSG00000159173
1.1128	0.13289	ENSG00000137776
1.1126	0.13294	ENSG00000204033
1.1124	0.13299	ENSG00000124508
-1.1121	0.86694	ENSG00000169126
-1.112	0.86692	ENSG00000254122
-1.1117	0.86688	ENSG00000155100
1.1117	0.13313	ENSG00000157680
1.1115	0.13317	ENSG00000197181
-1.1113	0.86677	ENSG00000108602
-1.1112	0.86676	ENSG00000244005
-1.1109	0.86669	ENSG00000174514
-1.1109	0.86671	ENSG00000110218
1.1108	0.13332	ENSG00000122042
1.1106	0.13336	ENSG00000189320
1.1106	0.13337	ENSG00000173530
-1.1104	0.86658	ENSG00000161973
-1.1104	0.86659	ENSG00000105679
-1.1101	0.86653	ENSG00000124743
1.1098	0.13354	ENSG00000047932
-1.1096	0.8664	ENSG00000108094
-1.1095	0.86638	ENSG00000115380
1.1092	0.13366	ENSG00000023287
-1.109	0.86628	ENSG00000110900
1.109	0.13371	ENSG00000183117
1.1089	0.13374	ENSG00000213934
1.1089	0.13375	ENSG00000116833
-1.1088	0.86625	ENSG00000107902
-1.1086	0.8662	ENSG00000184937
1.1086	0.1338	ENSG00000143033
-1.1084	0.86615	ENSG00000126088
-1.1083	0.86613	ENSG00000172487
-1.1081	0.86608	ENSG00000171450
-1.1078	0.86603	ENSG00000266202
-1.1077	0.86601	ENSG00000167723
1.1077	0.13399	ENSG00000171989
1.1077	0.134	ENSG00000104853
-1.1076	0.86597	ENSG00000140955
1.1076	0.13403	ENSG00000174226
-1.1075	0.86596	ENSG00000253873

1.1075	0.13403	ENSG00000123066
1.1072	0.1341	ENSG00000197714
1.1072	0.13411	ENSG00000164818
-1.107	0.86586	ENSG00000271043
1.1069	0.13417	ENSG00000206073
-1.1064	0.86571	ENSG00000251695
-1.1064	0.86572	ENSG00000221818
-1.1063	0.86569	ENSG00000224940
-1.1061	0.86566	ENSG00000135625
-1.1061	0.86567	ENSG00000168081
-1.1058	0.86559	ENSG00000103365
1.1058	0.13441	ENSG00000215252
-1.1055	0.86553	ENSG00000100417
-1.1054	0.86551	ENSG00000085117
-1.1051	0.86545	ENSG00000220702
-1.105	0.86542	ENSG00000253846
1.1049	0.1346	ENSG00000136688
1.1048	0.13462	ENSG00000128713
-1.1047	0.86536	ENSG00000006453
-1.1044	0.86528	ENSG00000095981
-1.1041	0.86523	ENSG00000138767
-1.104	0.86521	ENSG00000089163
1.1038	0.13484	ENSG00000111262
1.1036	0.13489	ENSG00000173876
-1.1035	0.86508	ENSG00000196196
-1.1034	0.86508	ENSG00000142684
-1.1034	0.86508	ENSG00000186469
1.1031	0.135	ENSG00000121621
-1.103	0.865	ENSG00000103356
1.1028	0.13505	ENSG00000117877
1.1028	0.13506	ENSG00000076344
-1.1027	0.86492	ENSG00000234829
1.1027	0.13507	ENSG00000170619
1.1026	0.1351	ENSG00000141506
1.1025	0.13512	ENSG00000151806
1.1022	0.13519	ENSG00000184220
1.1021	0.13521	ENSG00000175691
-1.1018	0.86473	ENSG00000176170
1.1018	0.13528	ENSG00000089220
-1.1016	0.86468	ENSG00000163064
1.1015	0.13534	ENSG00000143502
-1.1014	0.86464	ENSG00000003987
-1.1012	0.8646	ENSG00000172543
1.1012	0.13541	ENSG00000113946
-1.1011	0.86458	ENSG00000256632
1.1011	0.13543	ENSG00000134013
-1.1009	0.86452	ENSG00000180113
-1.1009	0.86453	ENSG00000177453
-1.1007	0.86449	ENSG00000170961
1.1007	0.1355	ENSG00000180871
1.1007	0.13552	ENSG00000197057

-1.1006	0.86447	ENSG00000106771
-1.1005	0.86443	ENSG00000120963
1.1005	0.13556	ENSG00000141458
1.1001	0.13563	ENSG00000205856
1.0997	0.13573	ENSG00000152359
1.0995	0.13577	ENSG00000214946
1.0995	0.13578	ENSG00000138308
-1.0994	0.86421	ENSG00000156486
1.0994	0.13579	ENSG00000106462
-1.0991	0.86413	ENSG00000135953
-1.0991	0.86414	ENSG00000242107
1.099	0.13588	ENSG00000258804
1.0989	0.13591	ENSG00000160678
-1.0988	0.86408	ENSG00000258366
1.0988	0.13592	ENSG00000249240
1.0987	0.13595	ENSG00000215306
-1.0981	0.86392	ENSG00000196159
-1.0977	0.86382	ENSG00000107954
-1.0977	0.86383	ENSG00000170448
-1.0976	0.86382	ENSG00000204991
-1.0974	0.86376	ENSG00000258728
-1.0973	0.86375	ENSG00000134717
1.0973	0.13625	ENSG00000164106
1.0973	0.13626	ENSG0000023445
-1.0972	0.86373	ENSG00000173227
-1.0969	0.86366	ENSG00000214788
1.0968	0.13636	ENSG00000198846
-1.0965	0.86358	ENSG00000198900
1.0965	0.13643	ENSG00000256870
1.0962	0.13649	ENSG00000086015
1.0961	0.13652	ENSG00000198356
1.096	0.13655	ENSG00000152430
-1.0951	0.86327	ENSG00000149679
-1.095	0.86325	ENSG00000187735
1.095	0.13675	ENSG00000235750
-1.0948	0.86321	ENSG00000058729
-1.0947	0.86317	ENSG00000126249
1.0947	0.13683	ENSG00000105784
-1.0945	0.86314	ENSG00000120137
-1.0944	0.86311	ENSG00000171444
1.0944	0.1369	ENSG00000253548
-1.0943	0.86309	ENSG00000088827
1.0942	0.13694	ENSG00000155886
-1.0939	0.86301	ENSG00000144485
1.0937	0.13705	ENSG00000150961
1.0936	0.13707	ENSG00000198242
1.0933	0.13712	ENSG00000135472
1.0932	0.13714	ENSG00000135740
-1.0929	0.86278	ENSG00000172731
1.0929	0.13722	ENSG00000135898
-1.0926	0.86272	ENSG00000181284

-1.0924	0.86268	ENSG00000141933
1.0922	0.13737	ENSG00000162722
1.092	0.13742	ENSG00000197696
-1.0919	0.86256	ENSG00000101255
-1.0917	0.86251	ENSG00000196268
1.0917	0.13749	ENSG00000138684
-1.0916	0.8625	ENSG00000196604
1.0915	0.13753	ENSG00000128595
1.0914	0.13754	ENSG00000157211
1.0914	0.13756	ENSG00000118705
1.0913	0.13758	ENSG00000254827
1.0913	0.13758	ENSG00000269741
1.0911	0.13762	ENSG00000169760
-1.091	0.86236	ENSG00000099385
1.091	0.13764	ENSG00000008735
1.0909	0.13766	ENSG00000204446
-1.0907	0.86229	ENSG00000162300
1.0907	0.13771	ENSG00000146250
-1.0905	0.86224	ENSG00000173237
1.0904	0.13777	ENSG00000154370
-1.0903	0.8622	ENSG00000119596
1.0902	0.13781	ENSG00000128891
1.0902	0.13782	ENSG00000197775
-1.09	0.86215	ENSG00000170262
1.0896	0.13794	ENSG00000100139
1.0895	0.13797	ENSG00000259112
-1.0887	0.86185	ENSG00000128268
1.0886	0.13816	ENSG00000176771
1.0885	0.13818	ENSG00000102524
1.0885	0.13819	ENSG00000184384
-1.0883	0.86176	ENSG00000268485
-1.0883	0.86177	ENSG00000154016
1.0883	0.13823	ENSG00000115233
-1.0881	0.86171	ENSG00000152683
1.0881	0.13828	ENSG00000103266
-1.0875	0.86158	ENSG00000152689
-1.0874	0.86158	ENSG00000156374
1.0872	0.13846	ENSG00000086730
1.087	0.13852	ENSG00000160226
-1.0867	0.86141	ENSG00000196944
1.0865	0.13863	ENSG00000163281
1.0865	0.13863	ENSG00000186814
-1.0864	0.86134	ENSG00000181085
-1.0863	0.86133	ENSG00000188984
1.0863	0.13867	ENSG00000166532
1.0863	0.13867	ENSG00000159723
-1.0861	0.86129	ENSG00000150938
-1.0861	0.86129	ENSG00000135945
1.0858	0.13877	ENSG00000136379
-1.0857	0.86118	ENSG00000184155
1.0857	0.1388	ENSG00000189266

1.0857	0.1388	ENSG00000112685
-1.0855	0.86115	ENSG00000107736
-1.0855	0.86116	ENSG00000121690
1.0855	0.13885	ENSG00000006451
-1.0852	0.86109	ENSG00000147724
1.0852	0.13893	ENSG00000143546
1.0851	0.13894	ENSG00000168386
-1.085	0.86103	ENSG00000121440
-1.085	0.86103	ENSG00000150269
-1.0849	0.86101	ENSG00000105550
1.0849	0.13897	ENSG00000132394
1.0849	0.13899	ENSG00000067955
1.0846	0.13904	ENSG00000166888
-1.0845	0.86093	ENSG00000142102
1.0845	0.13907	ENSG00000166037
-1.0842	0.86086	ENSG00000145919
1.0842	0.13915	ENSG00000257017
-1.084	0.86081	ENSG00000085377
-1.084	0.86082	ENSG00000268861
1.084	0.13918	ENSG00000122711
1.084	0.13918	ENSG00000197111
1.084	0.13919	ENSG00000111481
-1.0838	0.86078	ENSG00000177084
1.0838	0.13924	ENSG00000101084
1.0837	0.13925	ENSG00000114353
-1.0836	0.86073	ENSG00000169758
1.0836	0.13926	ENSG00000164500
1.0836	0.13927	ENSG00000132664
-1.0835	0.86071	ENSG00000134061
1.0835	0.13928	ENSG00000174405
-1.0834	0.86069	ENSG00000172500
1.0833	0.13933	ENSG00000100354
1.0833	0.13935	ENSG00000184507
-1.0832	0.86064	ENSG00000109101
1.0832	0.13936	ENSG00000128482
-1.0829	0.86057	ENSG00000163251
-1.0825	0.86049	ENSG00000267772
-1.0824	0.86045	ENSG00000100814
-1.0824	0.86046	ENSG00000137944
1.0824	0.13955	ENSG00000188869
1.0823	0.13955	ENSG00000236637
1.0822	0.13959	ENSG00000006712
1.0821	0.1396	ENSG00000139797
-1.082	0.86036	ENSG00000198794
-1.0819	0.86036	ENSG00000218672
-1.0818	0.86033	ENSG00000259207
-1.0818	0.86033	ENSG00000259753
-1.0817	0.86031	ENSG00000139182
1.0817	0.1397	ENSG00000163833
-1.0815	0.86026	ENSG00000151135
1.0815	0.13974	ENSG00000172766

-1.081	0.86016	ENSG00000197309
1.081	0.13985	ENSG00000116285
-1.0806	0.86006	ENSG00000169016
-1.0806	0.86007	ENSG00000000460
1.0803	0.14	ENSG00000159387
-1.0802	0.85998	ENSG00000139324
-1.0801	0.85995	ENSG00000127530
1.0801	0.14004	ENSG00000112812
-1.08	0.85992	ENSG00000237353
-1.08	0.85993	ENSG00000262601
1.08	0.14007	ENSG00000100462
-1.0798	0.85989	ENSG00000197971
1.0797	0.14015	ENSG00000178773
1.0795	0.14019	ENSG00000187045
1.0794	0.1402	ENSG00000133703
1.0793	0.14023	ENSG00000108387
-1.0792	0.85974	ENSG00000048052
1.0792	0.14024	ENSG00000135114
1.0792	0.14026	ENSG00000164129
-1.0789	0.85969	ENSG00000139684
-1.0787	0.85964	ENSG00000034510
-1.0785	0.85959	ENSG00000065371
1.0785	0.1404	ENSG00000117262
-1.0784	0.85957	ENSG00000218357
1.0784	0.14043	ENSG00000151292
1.0784	0.14043	ENSG00000164951
-1.0783	0.85954	ENSG00000179965
1.0782	0.14047	ENSG00000225663
1.078	0.14051	ENSG00000174437
1.078	0.14052	ENSG00000060140
-1.0779	0.85947	ENSG00000008952
-1.0778	0.85943	ENSG00000187288
-1.0777	0.85941	ENSG00000165556
-1.0775	0.85936	ENSG00000136271
1.0773	0.14067	ENSG00000235931
-1.0772	0.85931	ENSG00000061656
-1.0766	0.85917	ENSG00000179270
1.0764	0.14087	ENSG00000113407
-1.0763	0.85909	ENSG00000167658
1.0763	0.14089	ENSG00000160284
-1.0762	0.85909	ENSG00000196805
-1.0759	0.859	ENSG00000253159
-1.0757	0.85896	ENSG00000175267
-1.0757	0.85897	ENSG00000213015
1.0757	0.14103	ENSG00000108771
-1.0756	0.85895	ENSG00000113368
1.0755	0.14108	ENSG00000149292
-1.0754	0.85891	ENSG00000214253
1.0754	0.1411	ENSG00000122299
1.0753	0.14111	ENSG00000152558
1.0753	0.14112	ENSG00000128709

1.0753	0.14112	ENSG00000256060
1.0752	0.14113	ENSG00000178404
1.0752	0.14114	ENSG00000165646
1.0751	0.14117	ENSG00000268656
1.0751	0.14117	ENSG00000153982
-1.0745	0.8587	ENSG00000109103
-1.0745	0.85871	ENSG00000178821
1.0745	0.1413	ENSG00000106078
-1.0744	0.85868	ENSG00000117281
1.0744	0.14131	ENSG00000154485
-1.0742	0.85864	ENSG00000173013
-1.0741	0.8586	ENSG00000187026
1.0741	0.14138	ENSG00000153551
-1.074	0.85859	ENSG00000269526
-1.0739	0.85857	ENSG00000188729
-1.0739	0.85857	ENSG00000100985
-1.0738	0.85853	ENSG00000115598
-1.0738	0.85855	ENSG00000198730
-1.0738	0.85855	ENSG00000257591
-1.0737	0.85851	ENSG00000158815
-1.0737	0.85853	ENSG00000140262
1.0736	0.1415	ENSG00000182854
1.0735	0.14153	ENSG00000131127
-1.0733	0.85843	ENSG00000135175
-1.0733	0.85844	ENSG00000204246
1.0729	0.14165	ENSG00000150667
-1.0727	0.8583	ENSG00000183098
-1.0724	0.85822	ENSG00000050426
1.0723	0.14179	ENSG00000104938
-1.0721	0.85816	ENSG00000188312
-1.0721	0.85816	ENSG00000148120
1.0721	0.14183	ENSG00000240871
1.0721	0.14184	ENSG00000145725
1.0721	0.14185	ENSG00000129282
1.072	0.14186	ENSG00000156466
-1.0719	0.85812	ENSG00000188782
-1.0719	0.85812	ENSG00000197380
1.0718	0.14191	ENSG00000151651
-1.0717	0.85808	ENSG00000251201
-1.0717	0.85808	ENSG00000243414
-1.0717	0.85808	ENSG00000095794
1.0717	0.14192	ENSG00000119632
1.0716	0.14195	ENSG00000180539
1.0715	0.14197	ENSG00000143149
-1.0712	0.85795	ENSG00000243708
-1.0712	0.85795	ENSG00000168970
1.0711	0.14206	ENSG00000108510
1.071	0.14209	ENSG00000169330
1.0709	0.1421	ENSG00000165643
1.0708	0.14212	ENSG00000171574
-1.0707	0.85785	ENSG00000184428

1.0706	0.14217	ENSG00000105928
1.0705	0.14219	ENSG00000023228
1.0703	0.14225	ENSG00000123358
1.0702	0.14227	ENSG00000130475
-1.0701	0.8577	ENSG00000154930
-1.0701	0.8577	ENSG00000125970
1.0701	0.14228	ENSG00000184990
1.0701	0.1423	ENSG00000111615
1.0699	0.14233	ENSG00000023902
1.0699	0.14233	ENSG00000162755
1.0696	0.14239	ENSG00000197147
1.0695	0.14243	ENSG00000175376
1.0694	0.14243	ENSG00000119878
1.0692	0.1425	ENSG00000140948
-1.069	0.85747	ENSG00000130173
1.069	0.14253	ENSG00000182752
1.0689	0.14256	ENSG00000141570
1.0689	0.14257	ENSG00000143994
1.0689	0.14257	ENSG00000168447
-1.0688	0.85741	ENSG00000112562
1.0686	0.14262	ENSG00000175792
-1.0678	0.85719	ENSG00000169194
1.0678	0.14281	ENSG00000110077
1.0677	0.14283	ENSG00000168306
1.0676	0.14285	ENSG00000241128
1.0674	0.14289	ENSG00000179862
1.0673	0.14292	ENSG00000268941
-1.0667	0.85694	ENSG00000066185
1.0665	0.14309	ENSG00000116731
-1.0661	0.8568	ENSG00000094963
1.066	0.1432	ENSG00000170279
-1.0658	0.85675	ENSG00000169241
-1.0657	0.85673	ENSG00000188938
-1.0656	0.85671	ENSG00000160539
-1.0655	0.85668	ENSG00000100316
1.0655	0.14332	ENSG00000180549
-1.0654	0.85665	ENSG00000104880
-1.0653	0.85663	ENSG00000161203
1.0653	0.14336	ENSG00000136834
-1.065	0.85657	ENSG00000170549
1.0644	0.14357	ENSG00000256660
1.0641	0.14364	ENSG00000166546
1.0639	0.14369	ENSG00000066279
-1.0638	0.85629	ENSG00000064666
1.0638	0.14371	ENSG00000222017
1.0637	0.14374	ENSG00000107077
-1.0636	0.85624	ENSG00000150244
-1.0635	0.85621	ENSG00000147576
-1.0635	0.85623	ENSG00000255468
-1.0634	0.85621	ENSG00000134020
1.0633	0.14383	ENSG00000184903

1.0629	0.14391	ENSG00000213762
1.0626	0.14399	ENSG00000172594
-1.0623	0.85595	ENSG00000137204
-1.0622	0.85593	ENSG00000145569
-1.0621	0.85591	ENSG00000144029
-1.062	0.85588	ENSG00000130560
1.0619	0.14414	ENSG00000166111
1.0617	0.14418	ENSG00000100034
1.0616	0.1442	ENSG00000134684
1.0616	0.1442	ENSG00000136490
1.0616	0.14421	ENSG00000133706
-1.0614	0.85575	ENSG00000196233
1.0612	0.1443	ENSG00000268024
1.0612	0.14431	ENSG00000175393
1.061	0.14435	ENSG00000159720
1.0609	0.14437	ENSG00000119865
-1.0608	0.8556	ENSG00000172238
1.0608	0.1444	ENSG00000103495
-1.0605	0.85555	ENSG00000134049
1.0605	0.14447	ENSG00000001460
-1.0603	0.85549	ENSG00000137975
1.0603	0.14451	ENSG00000112167
1.0603	0.14451	ENSG00000173826
-1.0602	0.85548	ENSG00000172016
1.0602	0.14453	ENSG00000103994
-1.0601	0.85544	ENSG00000125347
1.06	0.14457	ENSG00000010282
-1.0598	0.85539	ENSG00000092445
1.0598	0.14461	ENSG00000107438
-1.0594	0.8553	ENSG00000168875
-1.0594	0.8553	ENSG00000086062
1.0594	0.1447	ENSG00000125826
1.0593	0.14473	ENSG00000058262
1.0591	0.14478	ENSG00000163428
1.059	0.14479	ENSG00000115216
1.0589	0.14482	ENSG00000113269
1.0587	0.14486	ENSG00000116701
1.0587	0.14486	ENSG00000197705
-1.0585	0.85509	ENSG00000147655
1.0585	0.14491	ENSG00000164124
1.0585	0.14492	ENSG00000035862
1.0584	0.14494	ENSG00000142449
-1.0583	0.85503	ENSG00000130592
-1.0581	0.855	ENSG00000173250
1.0576	0.14511	ENSG00000134046
1.0576	0.14512	ENSG00000100298
1.0575	0.14515	ENSG00000198498
-1.0574	0.85483	ENSG00000123178
1.0574	0.14516	ENSG00000109133
-1.0572	0.85479	ENSG00000042980
-1.0571	0.85477	ENSG00000264278

-1.057	0.85474	ENSG00000112782
-1.057	0.85474	ENSG00000099364
-1.057	0.85475	ENSG00000204390
1.0567	0.14533	ENSG00000160097
-1.0564	0.85462	ENSG00000143768
-1.0563	0.85458	ENSG00000140474
1.0563	0.14541	ENSG00000183128
1.0563	0.14543	ENSG00000107187
1.0562	0.14544	ENSG00000171560
-1.056	0.85451	ENSG00000167996
-1.056	0.85453	ENSG00000139726
-1.0559	0.8545	ENSG00000186235
-1.0557	0.85444	ENSG00000227471
-1.0557	0.85445	ENSG00000183748
-1.0556	0.85443	ENSG00000135929
1.0556	0.14558	ENSG00000229086
-1.0551	0.85431	ENSG00000197343
1.0551	0.14569	ENSG00000064763
-1.055	0.85429	ENSG00000139209
1.0548	0.14576	ENSG00000189269
-1.0543	0.85413	ENSG00000180155
-1.0542	0.85411	ENSG00000235863
-1.054	0.85406	ENSG00000100028
1.054	0.14593	ENSG00000114541
-1.0537	0.85399	ENSG00000117266
1.0535	0.14606	ENSG00000112511
1.0535	0.14606	ENSG00000176386
-1.0534	0.85391	ENSG00000134757
1.0533	0.1461	ENSG00000155438
1.0533	0.1461	ENSG00000126246
1.0529	0.14619	ENSG00000183844
1.0529	0.1462	ENSG00000066923
1.0529	0.1462	ENSG00000256825
1.0528	0.14622	ENSG00000185499
1.0527	0.14623	ENSG00000211455
-1.0524	0.85368	ENSG00000158292
-1.0524	0.8537	ENSG00000173679
1.0524	0.1463	ENSG00000117289
1.0523	0.14632	ENSG00000093183
1.0522	0.14635	ENSG00000116176
1.0522	0.14635	ENSG00000167280
1.0522	0.14636	ENSG00000149596
1.052	0.14639	ENSG00000228835
1.052	0.1464	ENSG00000150394
-1.0518	0.85355	ENSG00000116652
1.0517	0.14647	ENSG00000174842
1.0513	0.14655	ENSG00000164645
1.0513	0.14657	ENSG00000185339
1.051	0.14662	ENSG00000243147
1.051	0.14663	ENSG00000181026
-1.0509	0.85334	ENSG00000136930

-1.0508	0.85332	ENSG00000253719
-1.0507	0.85329	ENSG00000215527
1.0507	0.1467	ENSG00000109775
1.0503	0.14678	ENSG00000092036
-1.05	0.85315	ENSG00000166762
1.0498	0.1469	ENSG00000126233
1.0498	0.14691	ENSG00000111897
1.0497	0.14692	ENSG00000144909
-1.0495	0.85303	ENSG00000082996
1.0495	0.14699	ENSG00000163823
-1.0494	0.853	ENSG00000137133
1.0493	0.14701	ENSG00000164070
-1.049	0.85292	ENSG00000184544
-1.049	0.85292	ENSG00000105483
1.049	0.14708	ENSG00000171094
1.0488	0.14713	ENSG00000153561
1.0487	0.14717	ENSG00000203756
1.0485	0.1472	ENSG00000171202
1.0484	0.14723	ENSG00000171551
1.0484	0.14723	ENSG00000100030
-1.0483	0.85275	ENSG00000008405
-1.0482	0.85272	ENSG00000198300
1.0482	0.14728	ENSG00000164062
-1.0481	0.8527	ENSG00000168256
1.048	0.14731	ENSG00000258875
-1.0478	0.85263	ENSG00000177455
-1.0475	0.85257	ENSG00000173702
1.0474	0.14747	ENSG00000215271
-1.0472	0.85249	ENSG00000269533
-1.0472	0.8525	ENSG00000087128
1.0472	0.1475	ENSG00000241690
-1.0471	0.85247	ENSG00000037965
-1.047	0.85245	ENSG00000215454
-1.0468	0.8524	ENSG00000185897
1.0464	0.1477	ENSG00000102760
1.0463	0.1477	ENSG00000227268
-1.0462	0.85226	ENSG00000197353
-1.0461	0.85224	ENSG00000102575
1.0461	0.14776	ENSG00000084090
1.0461	0.14776	ENSG00000119669
1.0457	0.14785	ENSG00000124228
-1.0454	0.85208	ENSG00000166012
1.0453	0.14795	ENSG00000128285
-1.0452	0.85204	ENSG00000162063
1.045	0.14801	ENSG00000175764
1.0449	0.14805	ENSG00000129991
1.0448	0.14805	ENSG00000233822
1.0448	0.14806	ENSG00000241935
1.0447	0.14808	ENSG00000119772
1.0445	0.14812	ENSG00000143171
1.0445	0.14814	ENSG00000188981

-1.0441	0.85179	ENSG00000110713
-1.044	0.85176	ENSG00000198711
-1.0439	0.85175	ENSG00000181610
1.0439	0.14827	ENSG00000178084
-1.0438	0.85171	ENSG00000138166
-1.0437	0.85168	ENSG00000103091
1.0436	0.14832	ENSG00000203963
-1.0435	0.85164	ENSG00000161981
1.0435	0.14835	ENSG00000115042
1.0433	0.1484	ENSG00000173908
-1.0432	0.85157	ENSG00000131951
-1.0432	0.85158	ENSG00000198160
1.0432	0.14843	ENSG00000235531
-1.0426	0.85143	ENSG00000181374
1.0424	0.14861	ENSG00000105366
-1.0423	0.85137	ENSG00000117394
1.0423	0.14864	ENSG00000151500
-1.0422	0.85134	ENSG00000162490
-1.0422	0.85134	ENSG00000160808
-1.0422	0.85135	ENSG00000128849
1.0422	0.14866	ENSG00000088726
-1.042	0.8513	ENSG00000224997
1.0419	0.14873	ENSG00000256223
1.0419	0.14874	ENSG00000090612
1.0418	0.14876	ENSG00000167618
-1.0417	0.85123	ENSG00000204314
-1.0416	0.85119	ENSG00000146830
-1.0416	0.85119	ENSG00000157617
1.0416	0.14879	ENSG00000172057
1.0416	0.14881	ENSG00000173614
1.0414	0.14886	ENSG00000167716
1.041	0.14893	ENSG00000112305
1.041	0.14895	ENSG00000142025
-1.0408	0.85102	ENSG00000100433
-1.0407	0.85099	ENSG00000177000
-1.0401	0.85085	ENSG00000123307
1.0399	0.14919	ENSG00000196975
1.0398	0.14921	ENSG00000101230
1.0395	0.14928	ENSG00000101144
-1.0394	0.8507	ENSG00000007376
1.0391	0.14938	ENSG00000134258
-1.039	0.85061	ENSG00000184677
1.039	0.1494	ENSG00000198604
1.0389	0.14944	ENSG00000184709
-1.0386	0.85051	ENSG00000123643
1.0383	0.14957	ENSG00000072401
1.0383	0.14957	ENSG00000070540
1.0382	0.1496	ENSG00000256453
-1.0381	0.8504	ENSG00000173692
-1.0381	0.8504	ENSG00000119616
1.0381	0.14961	ENSG00000117411

1.0379	0.14965	ENSG00000196979
1.0376	0.14972	ENSG00000162009
1.0375	0.14975	ENSG00000143977
1.0375	0.14975	ENSG00000120798
1.0375	0.14976	ENSG00000182944
1.0374	0.14976	ENSG00000117139
1.0374	0.14977	ENSG00000142046
1.037	0.14987	ENSG00000240021
-1.0368	0.85009	ENSG00000154553
1.0368	0.14992	ENSG00000185008
1.0368	0.14992	ENSG00000183638
-1.0364	0.85	ENSG00000132478
-1.036	0.8499	ENSG00000156384
-1.036	0.8499	ENSG00000182979
1.036	0.1501	ENSG00000153015
1.036	0.1501	ENSG00000156017
1.0355	0.15022	ENSG00000130762
-1.0354	0.84977	ENSG00000105419
1.0353	0.15026	ENSG00000187867
-1.0349	0.84963	ENSG00000116983
-1.0349	0.84964	ENSG00000184060
1.0349	0.15036	ENSG00000068697
1.0345	0.15045	ENSG00000142694
1.0343	0.1505	ENSG00000158014
-1.0342	0.84947	ENSG00000196139
-1.0341	0.84946	ENSG00000167964
-1.034	0.84943	ENSG00000223501
-1.0339	0.8494	ENSG00000185049
-1.0338	0.84938	ENSG00000110680
1.0338	0.15062	ENSG00000164715
1.0336	0.15066	ENSG00000183625
1.0333	0.15072	ENSG00000173175
1.0332	0.15076	ENSG00000175497
1.0331	0.15079	ENSG00000164764
1.033	0.15081	ENSG00000135100
1.0329	0.15082	ENSG00000137203
-1.0328	0.84914	ENSG00000142959
-1.0328	0.84914	ENSG00000173208
-1.0328	0.84915	ENSG00000166558
-1.0328	0.84915	ENSG00000124091
1.0327	0.15086	ENSG00000136732
1.0327	0.15087	ENSG00000136155
1.0327	0.15087	ENSG00000176108
1.0327	0.15088	ENSG00000154265
-1.0326	0.8491	ENSG00000240386
-1.0323	0.84904	ENSG00000074317
1.0321	0.15101	ENSG00000085719
1.032	0.15104	ENSG00000141564
-1.0319	0.84893	ENSG00000127249
-1.0318	0.84891	ENSG00000204709
1.0318	0.15108	ENSG00000163507

1.0318	0.15109	ENSG00000229474
-1.0316	0.84887	ENSG00000196844
1.0315	0.15115	ENSG00000137959
1.0314	0.15118	ENSG00000124201
1.0314	0.15119	ENSG00000187607
1.0313	0.1512	ENSG00000261086
1.0312	0.15122	ENSG00000112237
-1.0311	0.84876	ENSG00000125571
-1.031	0.84874	ENSG00000188042
1.0308	0.15131	ENSG00000185697
-1.0306	0.84865	ENSG00000007264
1.0306	0.15136	ENSG00000111049
1.0305	0.15139	ENSG00000165863
1.0304	0.1514	ENSG00000267849
1.0304	0.15141	ENSG00000144821
1.0304	0.15141	ENSG00000128039
1.0303	0.15144	ENSG00000129465
1.0303	0.15144	ENSG00000196408
-1.0302	0.84854	ENSG00000188389
-1.0301	0.84852	ENSG00000096264
-1.03	0.84851	ENSG00000159197
-1.0299	0.84846	ENSG00000185787
1.0298	0.15154	ENSG00000142208
1.0298	0.15156	ENSG00000104611
-1.0297	0.84842	ENSG00000163481
1.0297	0.15158	ENSG00000166548
-1.0296	0.84841	ENSG00000065911
1.0296	0.1516	ENSG00000162384
-1.0295	0.84839	ENSG00000183401
1.0295	0.15163	ENSG00000104901
-1.029	0.84826	ENSG00000144635
-1.0289	0.84823	ENSG00000196235
1.0289	0.15176	ENSG00000079335
-1.0288	0.84821	ENSG00000126785
-1.0287	0.84818	ENSG00000162664
1.0287	0.15181	ENSG00000253251
-1.0285	0.84814	ENSG00000135220
1.0282	0.15194	ENSG00000116478
-1.0281	0.84804	ENSG00000135144
1.0281	0.15195	ENSG00000108448
-1.028	0.84803	ENSG00000183470
1.028	0.15198	ENSG00000100084
-1.0278	0.84797	ENSG00000256087
-1.0278	0.84798	ENSG00000184811
1.0277	0.15206	ENSG00000086205
-1.0276	0.84792	ENSG00000010327
-1.0276	0.84793	ENSG00000163009
1.0276	0.15207	ENSG00000198756
1.0274	0.15211	ENSG00000165392
-1.0273	0.84786	ENSG00000060688
1.0272	0.15217	ENSG00000052802

1.0269	0.15224	ENSG00000128510
-1.0266	0.84769	ENSG00000075223
1.0266	0.1523	ENSG00000070269
1.0266	0.1523	ENSG00000268470
1.0266	0.1523	ENSG00000064205
-1.0265	0.84767	ENSG00000205078
-1.0263	0.84762	ENSG00000104760
-1.0263	0.84762	ENSG00000267335
-1.0261	0.84759	ENSG00000180269
-1.026	0.84756	ENSG00000139970
1.0259	0.15247	ENSG00000183114
1.0259	0.15248	ENSG00000139725
1.0258	0.15249	ENSG00000160908
1.0258	0.1525	ENSG00000115604
-1.0257	0.84749	ENSG00000135148
1.0256	0.15254	ENSG00000125753
-1.0253	0.84738	ENSG00000138744
-1.0253	0.8474	ENSG00000169018
-1.0252	0.84737	ENSG00000103274
1.0252	0.15265	ENSG00000179213
-1.025	0.84733	ENSG00000117643
-1.0246	0.84723	ENSG00000133107
1.0246	0.15277	ENSG00000089486
-1.0245	0.84721	ENSG00000158106
-1.0242	0.84713	ENSG00000139193
-1.0242	0.84714	ENSG00000169919
1.0242	0.15287	ENSG00000164087
-1.0236	0.84698	ENSG00000176049
-1.0233	0.84691	ENSG00000137806
1.0233	0.15309	ENSG00000164181
-1.0228	0.84679	ENSG00000158411
1.0228	0.1532	ENSG00000116221
-1.0226	0.84674	ENSG00000129055
1.0225	0.15328	ENSG00000133313
1.0222	0.15335	ENSG00000254685
-1.0218	0.84655	ENSG00000071575
1.0218	0.15344	ENSG00000244405
-1.0216	0.84651	ENSG00000164338
-1.0216	0.84652	ENSG00000197451
-1.0216	0.84652	ENSG00000130158
1.0216	0.15348	ENSG00000130309
-1.0213	0.84645	ENSG00000196167
1.0213	0.15356	ENSG00000164556
1.0212	0.15357	ENSG00000225614
1.0211	0.15361	ENSG00000077514
1.0209	0.15365	ENSG00000134548
-1.0206	0.84628	ENSG00000130545
-1.0205	0.84625	ENSG00000103150
1.0205	0.15375	ENSG00000196208
1.0204	0.15377	ENSG00000139579
1.02	0.15387	ENSG00000224982

-1.0199	0.8461	ENSG00000152128
-1.0197	0.84605	ENSG00000148690
-1.0197	0.84608	ENSG00000182591
1.0196	0.15397	ENSG00000135040
-1.0191	0.84591	ENSG00000117525
1.0191	0.15407	ENSG00000038274
1.019	0.1541	ENSG00000144843
1.0189	0.15413	ENSG00000134709
1.0188	0.15415	ENSG00000143437
-1.0185	0.84579	ENSG00000092208
1.0185	0.15422	ENSG00000127377
-1.0184	0.84575	ENSG00000119396
-1.0184	0.84577	ENSG00000185019
-1.0183	0.84573	ENSG00000107779
-1.018	0.84567	ENSG00000047249
-1.0179	0.84564	ENSG00000155719
-1.0178	0.84562	ENSG00000183671
-1.0177	0.8456	ENSG00000107829
1.0174	0.15448	ENSG00000115616
-1.0173	0.84549	ENSG00000244687
-1.0171	0.84545	ENSG00000203747
1.0171	0.15456	ENSG00000071967
1.0168	0.15464	ENSG00000032444
-1.0165	0.84531	ENSG00000163825
1.0165	0.15469	ENSG00000244187
-1.0162	0.84523	ENSG00000168961
1.0162	0.15477	ENSG00000137674
-1.0161	0.84522	ENSG00000056558
1.0161	0.1548	ENSG00000171864
1.016	0.15481	ENSG00000127419
1.0159	0.15483	ENSG00000063978
1.0157	0.15488	ENSG00000171940
1.0156	0.15492	ENSG00000181552
-1.0154	0.84505	ENSG00000044459
1.0154	0.15495	ENSG00000143653
1.0153	0.15499	ENSG00000182541
1.015	0.15505	ENSG00000214513
-1.0149	0.84493	ENSG00000113296
-1.0146	0.84485	ENSG00000198590
-1.0146	0.84485	ENSG00000060237
1.0146	0.15514	ENSG00000135956
-1.0144	0.8448	ENSG00000104818
1.0144	0.15519	ENSG00000135677
-1.0143	0.84479	ENSG00000035115
1.0143	0.15523	ENSG00000115548
-1.0142	0.84476	ENSG00000012983
-1.0141	0.84474	ENSG00000143190
1.014	0.1553	ENSG00000135111
-1.0137	0.84464	ENSG00000142961
1.0135	0.15541	ENSG00000057149
-1.0134	0.84455	ENSG00000144674

1.0134	0.15545	ENSG00000158747
-1.0133	0.84455	ENSG00000179407
-1.0132	0.84451	ENSG00000172171
1.0132	0.15547	ENSG00000143256
-1.013	0.84447	ENSG00000172716
1.0129	0.15556	ENSG00000106799
-1.0128	0.84443	ENSG00000131899
1.0128	0.15557	ENSG00000185684
1.0125	0.15564	ENSG00000196782
1.0124	0.15568	ENSG00000204278
-1.0123	0.8443	ENSG00000187595
-1.0123	0.84431	ENSG00000049130
-1.0123	0.84431	ENSG00000131845
-1.0121	0.84425	ENSG00000118508
1.012	0.15577	ENSG00000268387
-1.0119	0.84421	ENSG00000242715
1.0119	0.15578	ENSG00000170616
1.0118	0.15582	ENSG00000059804
-1.0117	0.84415	ENSG00000133962
-1.0115	0.84411	ENSG00000113580
1.0113	0.15593	ENSG00000169946
1.0112	0.15595	ENSG00000148426
1.0112	0.15597	ENSG00000135999
-1.0109	0.84396	ENSG00000175745
1.0108	0.15605	ENSG00000103415
-1.0107	0.84392	ENSG00000063660
-1.0107	0.84393	ENSG00000074071
1.0107	0.15608	ENSG00000169139
-1.0106	0.8439	ENSG00000137815
1.0105	0.15613	ENSG00000117859
1.0104	0.15615	ENSG00000225556
1.0104	0.15616	ENSG00000197919
1.0102	0.15619	ENSG00000166130
-1.0101	0.84377	ENSG00000141682
1.01	0.15624	ENSG00000103023
-1.0099	0.84372	ENSG00000153721
-1.0099	0.84373	ENSG00000182851
1.0097	0.15631	ENSG00000166106
1.0095	0.15636	ENSG00000198965
-1.0092	0.84355	ENSG00000147475
-1.0092	0.84355	ENSG00000198901
-1.009	0.84351	ENSG00000104714
-1.009	0.84352	ENSG00000163947
1.0089	0.1565	ENSG00000159761
1.0089	0.15651	ENSG00000135164
1.0088	0.15654	ENSG00000116514
-1.0086	0.84343	ENSG00000246922
-1.0085	0.8434	ENSG00000196275
-1.0085	0.8434	ENSG00000172009
-1.0082	0.84333	ENSG00000146587
1.0082	0.15668	ENSG00000140968

-1.0081	0.84329	ENSG00000011009
1.0079	0.15674	ENSG00000123607
1.0079	0.15675	ENSG00000146918
-1.0077	0.8432	ENSG00000006788
-1.0076	0.84318	ENSG00000146833
-1.0075	0.84316	ENSG00000147533
-1.0073	0.84311	ENSG00000128886
1.0073	0.15689	ENSG00000167862
1.0071	0.15695	ENSG00000183036
-1.0069	0.84301	ENSG00000114107
1.0069	0.15698	ENSG00000092203
1.0066	0.15707	ENSG00000197938
1.0059	0.15722	ENSG00000163421
1.0058	0.15724	ENSG00000001461
1.0057	0.15729	ENSG00000022355
-1.0056	0.8427	ENSG00000271741
1.0056	0.1573	ENSG00000092094
1.0047	0.15751	ENSG00000171564
1.0046	0.15753	ENSG00000074590
1.0046	0.15754	ENSG00000164309
1.0043	0.15763	ENSG00000198668
1.0042	0.15765	ENSG00000167765
1.004	0.1577	ENSG00000162062
-1.0038	0.84226	ENSG00000099625
-1.0038	0.84227	ENSG00000104067
1.0037	0.15776	ENSG00000112659
-1.0035	0.8422	ENSG00000131018
1.0029	0.15796	ENSG00000165511
-1.0026	0.84196	ENSG00000174996
-1.0024	0.84193	ENSG00000203724
1.0024	0.15808	ENSG00000109171
1.0023	0.1581	ENSG00000139546
-1.0022	0.84188	ENSG00000144847
-1.0018	0.84178	ENSG00000107957
-1.0018	0.84179	ENSG00000185619
-1.0017	0.84175	ENSG00000166394
-1.0016	0.84174	ENSG00000174306
-1.0015	0.8417	ENSG00000126266
-1.0014	0.84168	ENSG00000164308
1.0014	0.15832	ENSG00000139278
1.0013	0.15833	ENSG00000168028
1.0013	0.15834	ENSG00000198919
1.0012	0.15837	ENSG00000167978
-1.0009	0.84157	ENSG00000173809
1.0009	0.15844	ENSG00000240563
1.0007	0.15849	ENSG00000122390
1.0007	0.1585	ENSG00000055917
-1.0005	0.84146	ENSG00000156574
1.0005	0.15853	ENSG00000258386
-1.0003	0.84141	ENSG00000071073
-1.0003	0.84141	ENSG00000109943

1.0002	0.1586	ENSG00000149742
1.0002	0.15861	ENSG00000269035
0.99989	0.15868	ENSG00000167371
0.99964	0.15874	ENSG00000121807
-0.99956	0.84124	ENSG00000115694
-0.99945	0.84121	ENSG00000177989
-0.99914	0.84114	ENSG00000171496
-0.99909	0.84112	ENSG00000152465
0.9988	0.15894	ENSG00000159189
0.9981	0.15912	ENSG00000268091
0.99791	0.15916	ENSG00000141646
0.99762	0.15923	ENSG00000162909
-0.99761	0.84077	ENSG00000181804
-0.99744	0.84072	ENSG00000130429
0.99703	0.15937	ENSG00000158473
-0.99667	0.84054	ENSG00000101266
-0.99636	0.84046	ENSG00000113140
-0.99635	0.84046	ENSG00000108828
-0.99593	0.84036	ENSG00000165480
-0.99578	0.84032	ENSG0000010438
0.99576	0.15968	ENSG00000108773
-0.99574	0.84031	ENSG00000181350
-0.99573	0.84031	ENSG00000140395
-0.99562	0.84028	ENSG00000183643
0.99553	0.15974	ENSG00000166634
-0.99546	0.84024	ENSG00000131467
-0.99545	0.84024	ENSG00000062725
0.9954	0.15977	ENSG00000162695
0.99534	0.15978	ENSG00000253379
-0.99531	0.84021	ENSG00000240204
-0.99529	0.8402	ENSG00000204084
-0.99526	0.84019	ENSG00000101391
0.99519	0.15982	ENSG00000175334
-0.99483	0.84009	ENSG00000169908
-0.9948	0.84008	ENSG00000099139
-0.99477	0.84008	ENSG00000115649
0.99474	0.15993	ENSG00000006210
-0.99473	0.84007	ENSG00000175489
-0.99462	0.84004	ENSG00000127329
-0.99445	0.84	ENSG00000162642
-0.99412	0.83992	ENSG00000213923
0.99411	0.16008	ENSG00000182329
0.99406	0.1601	ENSG00000133612
-0.99405	0.8399	ENSG00000269121
0.99401	0.16011	ENSG00000125089
-0.99394	0.83987	ENSG00000173156
0.99378	0.16017	ENSG00000167100
0.99367	0.16019	ENSG00000220256
-0.99342	0.83975	ENSG00000164929
0.9934	0.16026	ENSG00000111653
-0.9933	0.83972	ENSG00000169991

-0.99323	0.8397	ENSG00000179038
0.99316	0.16032	ENSG00000038358
-0.99304	0.83965	ENSG00000116489
-0.99294	0.83963	ENSG00000137842
-0.99284	0.83961	ENSG00000181234
0.99282	0.1604	ENSG00000187912
0.99274	0.16042	ENSG00000150990
0.99271	0.16043	ENSG00000186115
0.99209	0.16058	ENSG00000118434
0.99181	0.16065	ENSG00000138032
0.99178	0.16065	ENSG00000180872
-0.99172	0.83933	ENSG00000115514
0.9916	0.1607	ENSG00000179409
-0.99156	0.83929	ENSG00000136695
-0.99151	0.83928	ENSG00000166780
-0.9913	0.83923	ENSG00000086696
0.99128	0.16078	ENSG00000104112
0.99086	0.16088	ENSG00000164587
0.99064	0.16093	ENSG00000159261
0.99058	0.16094	ENSG00000104941
-0.9905	0.83904	ENSG00000085514
-0.99047	0.83903	ENSG00000163762
-0.99046	0.83903	ENSG00000115556
-0.99038	0.83901	ENSG00000268467
0.99029	0.16102	ENSG00000117519
0.99018	0.16104	ENSG00000105146
0.99002	0.16108	ENSG00000163866
0.98999	0.16109	ENSG00000174640
-0.98998	0.83891	ENSG00000143641
0.98994	0.1611	ENSG00000100038
0.98992	0.16111	ENSG00000087095
0.98975	0.16115	ENSG00000105750
0.98967	0.16117	ENSG00000114982
-0.98961	0.83882	ENSG00000121898
-0.98948	0.83879	ENSG00000134760
-0.98946	0.83878	ENSG00000139974
0.9894	0.16123	ENSG00000141030
-0.98933	0.83875	ENSG00000268193
0.98917	0.16129	ENSG00000215009
-0.98915	0.83871	ENSG00000125815
-0.98911	0.8387	ENSG00000163006
0.98909	0.16131	ENSG00000233608
0.98894	0.16135	ENSG00000127528
0.98885	0.16137	ENSG00000169375
0.98859	0.16143	ENSG00000168876
0.98859	0.16143	ENSG00000167286
0.98856	0.16144	ENSG00000160439
-0.98855	0.83856	ENSG00000187624
0.98848	0.16146	ENSG00000111432
0.9884	0.16148	ENSG00000153904
0.98816	0.16154	ENSG00000110721

0.98813	0.16154	ENSG00000158865
0.98808	0.16156	ENSG00000107105
0.98798	0.16158	ENSG00000198948
-0.98797	0.83842	ENSG00000107789
-0.98794	0.83841	ENSG00000141698
-0.98776	0.83837	ENSG00000213297
0.98769	0.16165	ENSG00000137225
0.98769	0.16165	ENSG00000205409
0.98759	0.16168	ENSG00000133794
0.98725	0.16176	ENSG00000154839
-0.98701	0.83818	ENSG00000178734
-0.987	0.83818	ENSG00000132010
0.987	0.16182	ENSG00000130768
-0.98683	0.83814	ENSG00000180739
0.98668	0.1619	ENSG00000242252
-0.98667	0.8381	ENSG00000182957
0.98664	0.16191	ENSG00000156414
0.98663	0.16191	ENSG00000146166
-0.9866	0.83808	ENSG00000142867
0.9866	0.16192	ENSG00000237765
-0.98659	0.83808	ENSG00000153822
0.98634	0.16198	ENSG00000011198
0.98624	0.16201	ENSG00000100997
0.98603	0.16206	ENSG00000137868
0.98595	0.16208	ENSG00000100644
0.9857	0.16214	ENSG00000105287
0.98559	0.16217	ENSG00000188784
0.98551	0.16219	ENSG00000149781
-0.98546	0.8378	ENSG00000155545
-0.98504	0.8377	ENSG00000233701
-0.98503	0.83769	ENSG00000164266
-0.98501	0.83769	ENSG00000079277
-0.98493	0.83767	ENSG00000090263
0.98488	0.16234	ENSG00000165417
0.9847	0.16239	ENSG00000010539
-0.98414	0.83748	ENSG00000214954
-0.98414	0.83748	ENSG00000120832
0.98409	0.16254	ENSG00000157240
0.98406	0.16254	ENSG00000160310
-0.98375	0.83738	ENSG00000143368
0.98357	0.16266	ENSG00000256391
0.98353	0.16267	ENSG00000007306
0.98347	0.16269	ENSG00000115252
0.98347	0.16269	ENSG00000241973
-0.98342	0.8373	ENSG00000188976
0.98326	0.16274	ENSG00000125255
0.98326	0.16274	ENSG00000105497
0.98324	0.16274	ENSG00000085978
0.98314	0.16277	ENSG00000171067
0.98285	0.16284	ENSG00000146278
0.98269	0.16288	ENSG00000115947

0.98246	0.16294	ENSG00000196600
-0.98197	0.83694	ENSG00000075711
-0.98192	0.83693	ENSG00000243364
-0.98185	0.83691	ENSG00000150995
-0.98177	0.83689	ENSG00000204138
0.9814	0.1632	ENSG00000125888
-0.98137	0.8368	ENSG00000100722
0.98127	0.16323	ENSG00000143127
0.98127	0.16323	ENSG00000151498
-0.98126	0.83677	ENSG00000186513
0.98079	0.16335	ENSG00000124713
-0.98073	0.83664	ENSG00000129007
-0.98054	0.83659	ENSG00000204574
0.98051	0.16342	ENSG00000183010
0.98045	0.16343	ENSG00000155970
-0.98043	0.83656	ENSG00000119986
-0.98029	0.83653	ENSG00000215695
-0.98024	0.83652	ENSG00000107099
-0.98004	0.83647	ENSG00000172478
0.97936	0.1637	ENSG00000120647
-0.97915	0.83625	ENSG00000144648
-0.9791	0.83624	ENSG00000118271
-0.97906	0.83623	ENSG00000180370
-0.97904	0.83622	ENSG00000104365
0.97901	0.16379	ENSG00000132906
-0.97897	0.8362	ENSG00000108018
0.97875	0.16385	ENSG00000161270
-0.97871	0.83614	ENSG00000163159
-0.97864	0.83612	ENSG00000139173
0.97857	0.1639	ENSG00000113583
-0.97855	0.8361	ENSG00000171044
-0.97851	0.83609	ENSG00000124104
0.97851	0.16391	ENSG00000214814
-0.97848	0.83608	ENSG00000154134
-0.97838	0.83606	ENSG00000074047
-0.9783	0.83604	ENSG00000203965
0.97825	0.16397	ENSG00000065526
0.97815	0.164	ENSG00000181013
0.97765	0.16412	ENSG00000101247
0.97759	0.16414	ENSG00000092841
0.97755	0.16415	ENSG00000055147
-0.97743	0.83582	ENSG00000141161
-0.97741	0.83582	ENSG00000132872
-0.9772	0.83577	ENSG00000104722
-0.97707	0.83573	ENSG00000187957
-0.97704	0.83572	ENSG00000101162
0.97688	0.16431	ENSG00000100815
0.97686	0.16432	ENSG00000196277
0.97671	0.16436	ENSG00000091592
0.97628	0.16446	ENSG00000176903
0.97614	0.1645	ENSG00000175324

0.976	0.16453	ENSG00000154217
0.97581	0.16458	ENSG00000119314
-0.97567	0.83539	ENSG00000186971
-0.97552	0.83535	ENSG00000168710
-0.97544	0.83533	ENSG00000110906
-0.9754	0.83532	ENSG00000116525
-0.97537	0.83531	ENSG00000100258
-0.97518	0.83526	ENSG00000257390
-0.97517	0.83526	ENSG00000198648
-0.97515	0.83526	ENSG00000249160
-0.9751	0.83524	ENSG00000269307
0.97499	0.16478	ENSG00000130711
-0.97498	0.83521	ENSG00000127990
0.97492	0.1648	ENSG00000102981
0.97489	0.16481	ENSG00000174482
0.97476	0.16484	ENSG00000163517
0.97474	0.16484	ENSG00000204843
0.97469	0.16486	ENSG00000135720
-0.97445	0.83508	ENSG00000121848
0.97438	0.16493	ENSG00000259224
0.97437	0.16494	ENSG00000143199
-0.97433	0.83505	ENSG00000134545
0.97432	0.16495	ENSG00000196366
0.97431	0.16495	ENSG00000130703
0.97425	0.16497	ENSG00000114646
0.97413	0.16499	ENSG00000103343
0.97411	0.165	ENSG00000182083
0.9741	0.165	ENSG00000121989
0.97406	0.16501	ENSG00000170615
-0.97402	0.83498	ENSG00000115183
0.97389	0.16506	ENSG00000177981
0.97362	0.16512	ENSG00000172508
0.97357	0.16513	ENSG00000106018
0.97351	0.16515	ENSG00000167614
0.97346	0.16516	ENSG00000138778
-0.97344	0.83483	ENSG00000021826
0.97314	0.16524	ENSG00000099260
0.97259	0.16538	ENSG00000002822
0.97259	0.16538	ENSG00000149534
-0.9725	0.8346	ENSG00000149182
0.97236	0.16544	ENSG00000163462
0.97227	0.16546	ENSG00000272790
-0.97224	0.83453	ENSG00000089199
0.97212	0.1655	ENSG00000138035
0.97196	0.16553	ENSG00000162761
-0.97189	0.83445	ENSG00000125457
-0.97181	0.83443	ENSG00000205269
-0.9718	0.83442	ENSG00000120057
0.97135	0.16569	ENSG00000113211
-0.97072	0.83416	ENSG00000073417
-0.9706	0.83413	ENSG00000197013

0.97056	0.16588	ENSG00000006116
-0.97037	0.83407	ENSG00000158457
-0.97036	0.83407	ENSG00000173889
0.97032	0.16594	ENSG00000087302
-0.97028	0.83405	ENSG00000170949
-0.97023	0.83403	ENSG00000155034
-0.96988	0.83395	ENSG00000099256
0.96952	0.16614	ENSG00000251369
0.9695	0.16615	ENSG00000242259
-0.96944	0.83384	ENSG00000158863
-0.9692	0.83378	ENSG00000069943
0.96906	0.16626	ENSG00000171475
-0.96889	0.8337	ENSG00000087111
-0.96888	0.8337	ENSG00000090857
-0.96887	0.8337	ENSG00000148541
-0.96869	0.83365	ENSG00000141424
0.96863	0.16637	ENSG00000169599
0.96852	0.16639	ENSG00000143278
-0.96847	0.83359	ENSG00000181195
0.96815	0.16649	ENSG00000143595
0.96801	0.16652	ENSG00000127526
0.96799	0.16653	ENSG00000077044
0.96786	0.16656	ENSG00000171819
0.96786	0.16656	ENSG00000080910
-0.96783	0.83343	ENSG00000158816
-0.96779	0.83343	ENSG00000011523
0.96779	0.16658	ENSG00000105793
0.96777	0.16658	ENSG00000168743
0.96775	0.16658	ENSG00000266076
0.96765	0.16661	ENSG00000174456
-0.96752	0.83336	ENSG00000166783
0.96737	0.16668	ENSG00000099797
0.96728	0.1667	ENSG00000169744
-0.96704	0.83324	ENSG00000084092
-0.96704	0.83324	ENSG00000204694
-0.96703	0.83323	ENSG00000115844
0.96699	0.16678	ENSG00000119559
0.96684	0.16681	ENSG00000125899
-0.9667	0.83315	ENSG00000188425
0.96651	0.16689	ENSG00000158406
0.96651	0.16689	ENSG00000111961
-0.96642	0.83308	ENSG00000186532
0.96638	0.16693	ENSG00000106392
0.96609	0.167	ENSG00000087086
-0.96573	0.83291	ENSG00000204099
0.96567	0.16711	ENSG00000103502
0.9656	0.16712	ENSG00000170374
-0.96532	0.83281	ENSG00000145476
0.96523	0.16722	ENSG00000247270
0.96504	0.16726	ENSG00000158869
-0.9649	0.8327	ENSG00000234127

-0.96487	0.83269	ENSG00000136327
0.96485	0.16731	ENSG00000169031
-0.96461	0.83263	ENSG00000215251
-0.9646	0.83263	ENSG00000162194
0.96447	0.16741	ENSG00000131069
-0.96435	0.83256	ENSG00000110328
0.96406	0.16751	ENSG00000088053
-0.96394	0.83246	ENSG00000106025
-0.9638	0.83243	ENSG00000166959
0.9638	0.16757	ENSG00000148842
0.96366	0.16761	ENSG00000186862
0.96359	0.16763	ENSG00000130332
0.96359	0.16763	ENSG00000183850
-0.96344	0.83234	ENSG00000126698
-0.96341	0.83233	ENSG00000273167
0.96338	0.16768	ENSG00000144559
-0.96325	0.83229	ENSG00000198054
0.96316	0.16773	ENSG00000157570
0.96279	0.16783	ENSG00000163541
0.96262	0.16787	ENSG00000085788
-0.96236	0.83207	ENSG00000160868
0.96216	0.16798	ENSG00000170500
-0.96215	0.83201	ENSG00000111752
-0.96213	0.83201	ENSG00000112530
-0.96198	0.83197	ENSG00000063244
0.96198	0.16803	ENSG00000267699
0.9618	0.16808	ENSG00000187889
0.96179	0.16808	ENSG00000090104
-0.96151	0.83185	ENSG00000148908
-0.96151	0.83185	ENSG00000131196
0.96147	0.16816	ENSG00000124444
-0.96146	0.83184	ENSG00000182566
0.96138	0.16818	ENSG00000006128
0.96124	0.16821	ENSG00000198736
-0.9612	0.83178	ENSG00000198924
0.96119	0.16823	ENSG00000135838
0.96113	0.16824	ENSG00000071991
-0.96096	0.83171	ENSG00000196182
-0.96093	0.83171	ENSG00000164385
0.9609	0.1683	ENSG00000136531
0.96088	0.16831	ENSG00000165868
0.96081	0.16832	ENSG00000164323
0.96046	0.16841	ENSG00000105290
0.96034	0.16844	ENSG00000111046
0.96029	0.16845	ENSG00000120594
0.96027	0.16846	ENSG00000157429
0.96022	0.16847	ENSG00000101265
-0.95991	0.83145	ENSG00000168481
0.95962	0.16862	ENSG00000144867
-0.95951	0.83135	ENSG00000253797
-0.95929	0.83129	ENSG00000185522

0.95928	0.16871	ENSG00000130038
0.95927	0.16871	ENSG00000214212
-0.95922	0.83128	ENSG00000164049
-0.95847	0.83109	ENSG00000153208
-0.95841	0.83107	ENSG00000173960
0.95825	0.16897	ENSG00000164904
-0.9582	0.83102	ENSG00000184313
-0.95817	0.83101	ENSG00000121892
0.95808	0.16901	ENSG00000167842
-0.958	0.83097	ENSG00000116703
0.95798	0.16904	ENSG00000196735
-0.95786	0.83093	ENSG00000240720
-0.95783	0.83092	ENSG00000171873
-0.95772	0.8309	ENSG00000151006
0.95768	0.16911	ENSG00000173714
0.95767	0.16911	ENSG00000130675
0.95765	0.16912	ENSG00000158008
0.95756	0.16914	ENSG00000160953
0.95745	0.16917	ENSG00000179598
-0.95732	0.8308	ENSG00000204977
0.95722	0.16923	ENSG00000170515
-0.9572	0.83077	ENSG00000070985
-0.95704	0.83073	ENSG00000093000
-0.95701	0.83072	ENSG00000266958
-0.95696	0.83071	ENSG00000175877
0.95684	0.16932	ENSG00000164438
-0.95679	0.83066	ENSG00000112763
0.95672	0.16935	ENSG00000257599
0.95659	0.16939	ENSG00000166170
-0.9565	0.83059	ENSG00000099617
-0.95643	0.83057	ENSG00000113575
-0.95632	0.83054	ENSG00000135248
-0.95621	0.83052	ENSG00000166510
-0.95584	0.83042	ENSG00000106012
-0.95568	0.83038	ENSG00000166979
0.95567	0.16962	ENSG00000180626
0.95523	0.16973	ENSG00000139832
-0.95521	0.83026	ENSG00000186113
0.95517	0.16975	ENSG00000221843
-0.95507	0.83023	ENSG00000137876
0.95488	0.16982	ENSG00000113240
-0.9547	0.83014	ENSG00000174595
0.95453	0.16991	ENSG00000162460
0.95452	0.16991	ENSG00000166704
0.95439	0.16994	ENSG00000023330
-0.95438	0.83005	ENSG00000100938
0.95436	0.16995	ENSG00000163508
-0.9542	0.83001	ENSG00000132693
0.95409	0.17002	ENSG00000181915
0.95404	0.17003	ENSG00000187094
-0.95402	0.82996	ENSG00000224877

0.95402	0.17004	ENSG00000234511
0.9539	0.17007	ENSG00000204442
0.95389	0.17007	ENSG00000137710
0.95386	0.17008	ENSG00000168090
0.95382	0.17009	ENSG00000197483
0.95329	0.17022	ENSG00000123106
0.95325	0.17023	ENSG00000121270
0.95317	0.17025	ENSG00000162065
-0.95316	0.82975	ENSG00000163126
0.95303	0.17029	ENSG00000144045
0.95295	0.17031	ENSG00000187398
-0.95268	0.82962	ENSG00000124257
0.95266	0.17038	ENSG00000110934
-0.9526	0.8296	ENSG00000186136
-0.95259	0.8296	ENSG00000175970
0.95254	0.17041	ENSG00000114744
0.95247	0.17043	ENSG00000185507
-0.95242	0.82956	ENSG00000120688
-0.95241	0.82956	ENSG00000090554
0.95228	0.17048	ENSG00000162434
0.95219	0.1705	ENSG00000104140
0.95194	0.17056	ENSG00000141084
-0.95189	0.82942	ENSG00000185087
0.95189	0.17058	ENSG00000100678
-0.95182	0.82941	ENSG00000075643
0.9518	0.1706	ENSG00000142700
0.95169	0.17063	ENSG00000136542
0.95166	0.17064	ENSG00000075673
0.95136	0.17071	ENSG00000127515
-0.95128	0.82927	ENSG00000173726
-0.95123	0.82926	ENSG00000197446
0.95088	0.17083	ENSG00000108840
-0.9502	0.82899	ENSG00000108296
-0.95018	0.82899	ENSG00000215346
-0.9501	0.82897	ENSG00000183066
-0.95008	0.82896	ENSG00000166987
-0.94983	0.8289	ENSG00000167995
-0.94963	0.82885	ENSG00000160323
-0.94945	0.8288	ENSG00000135773
-0.94939	0.82879	ENSG00000196611
-0.94928	0.82876	ENSG00000158417
0.9492	0.17126	ENSG00000136267
-0.94895	0.82868	ENSG00000155324
-0.9489	0.82866	ENSG00000132130
-0.9486	0.82859	ENSG00000232258
-0.94857	0.82858	ENSG00000132563
-0.94854	0.82857	ENSG00000073756
-0.94847	0.82855	ENSG00000108582
-0.94843	0.82855	ENSG00000119812
-0.94815	0.82847	ENSG00000186184
0.94793	0.17158	ENSG00000187824

0.94792	0.17159	ENSG00000186354
0.94791	0.17159	ENSG00000260851
0.94788	0.17159	ENSG00000155530
0.94777	0.17162	ENSG00000254999
0.94772	0.17164	ENSG00000165501
0.9477	0.17164	ENSG00000108389
0.9476	0.17167	ENSG00000163467
-0.94742	0.82829	ENSG00000187871
0.94719	0.17177	ENSG00000114054
0.94712	0.17179	ENSG00000116127
0.9471	0.1718	ENSG00000212123
-0.94694	0.82816	ENSG00000168268
-0.94689	0.82815	ENSG00000058063
-0.94674	0.82811	ENSG00000135503
0.94672	0.17189	ENSG00000164086
0.9467	0.1719	ENSG00000168061
-0.94661	0.82808	ENSG00000146360
-0.94635	0.82802	ENSG00000177946
0.9461	0.17205	ENSG00000268423
0.94607	0.17206	ENSG00000144134
0.94585	0.17211	ENSG00000114857
0.94548	0.17221	ENSG00000141642
0.94544	0.17222	ENSG00000066405
-0.94541	0.82778	ENSG00000126243
0.9453	0.17225	ENSG00000066135
-0.94523	0.82773	ENSG00000134551
-0.94516	0.82771	ENSG00000121210
0.94497	0.17234	ENSG00000134242
0.94478	0.17239	ENSG00000138735
-0.94462	0.82757	ENSG00000113790
0.9446	0.17243	ENSG00000136830
0.94454	0.17245	ENSG00000105472
-0.94452	0.82755	ENSG00000148798
0.94449	0.17246	ENSG00000164465
-0.94443	0.82753	ENSG00000104320
-0.94428	0.82749	ENSG00000185842
0.94426	0.17252	ENSG00000262621
0.94424	0.17252	ENSG00000174236
-0.94417	0.82746	ENSG00000126562
0.94393	0.1726	ENSG00000106153
0.94385	0.17262	ENSG00000163702
0.94364	0.17268	ENSG00000166796
-0.94361	0.82731	ENSG00000179761
-0.94358	0.82731	ENSG00000159842
-0.94356	0.8273	ENSG00000026036
-0.94347	0.82728	ENSG00000109132
-0.94337	0.82725	ENSG00000168916
-0.94333	0.82724	ENSG00000136950
0.94328	0.17277	ENSG00000268537
-0.94323	0.82722	ENSG00000161249
0.94321	0.17279	ENSG00000103852

-0.94319	0.82721	ENSG00000188778
0.94317	0.1728	ENSG00000089177
-0.94297	0.82715	ENSG00000197980
0.9427	0.17292	ENSG00000118777
0.94267	0.17292	ENSG00000156603
0.94263	0.17293	ENSG00000122970
0.94246	0.17298	ENSG00000137273
0.94223	0.17304	ENSG00000169989
0.94217	0.17305	ENSG00000185567
-0.94214	0.82694	ENSG00000197653
0.9419	0.17312	ENSG00000007312
0.94182	0.17314	ENSG00000164327
-0.94176	0.82684	ENSG00000197959
0.9416	0.1732	ENSG00000070159
0.94159	0.1732	ENSG00000148948
0.94157	0.17321	ENSG00000140743
-0.94144	0.82676	ENSG00000071282
0.94141	0.17325	ENSG00000117091
-0.94137	0.82674	ENSG00000179335
-0.94129	0.82672	ENSG00000167083
0.94117	0.17331	ENSG00000108039
0.94116	0.17331	ENSG00000087586
0.94109	0.17333	ENSG00000268155
0.94108	0.17333	ENSG00000188069
-0.94083	0.8266	ENSG00000131015
0.94083	0.1734	ENSG00000132294
-0.94079	0.82659	ENSG00000197608
0.94078	0.17341	ENSG00000124357
-0.9407	0.82657	ENSG00000206562
0.94043	0.1735	ENSG00000103310
-0.94042	0.8265	ENSG00000115365
-0.9404	0.82649	ENSG00000197991
0.9404	0.17351	ENSG00000109180
0.94031	0.17353	ENSG00000269883
-0.94023	0.82645	ENSG00000132972
0.94023	0.17355	ENSG00000151366
-0.93979	0.82634	ENSG00000160075
0.93958	0.17372	ENSG00000077150
0.9395	0.17374	ENSG00000135446
-0.93947	0.82625	ENSG00000148925
0.93943	0.17375	ENSG00000072657
0.9394	0.17376	ENSG00000100519
-0.93918	0.82618	ENSG00000181472
0.93911	0.17384	ENSG00000104219
-0.93879	0.82608	ENSG00000081014
-0.93849	0.826	ENSG00000184954
-0.93826	0.82595	ENSG00000043591
-0.93822	0.82593	ENSG00000134815
0.9382	0.17407	ENSG00000126106
-0.93816	0.82592	ENSG00000164761
0.9381	0.1741	ENSG00000063177

-0.93799	0.82588	ENSG00000162747
0.93793	0.17414	ENSG00000138802
0.93781	0.17417	ENSG00000124882
0.93777	0.17418	ENSG00000108511
0.93775	0.17419	ENSG00000136928
-0.93749	0.82575	ENSG00000148335
-0.93744	0.82573	ENSG00000225683
0.93743	0.17427	ENSG00000084073
-0.93738	0.82572	ENSG00000168546
0.93734	0.17429	ENSG00000160349
-0.93726	0.82569	ENSG00000063761
0.93709	0.17436	ENSG00000170558
0.93704	0.17437	ENSG00000115295
-0.93684	0.82558	ENSG00000089723
-0.93681	0.82557	ENSG00000110841
0.9367	0.17446	ENSG00000173545
0.93667	0.17446	ENSG00000070190
0.93666	0.17447	ENSG00000172381
0.93659	0.17448	ENSG00000188112
0.93656	0.17449	ENSG00000151465
-0.93646	0.82548	ENSG00000205177
0.93638	0.17454	ENSG00000125879
-0.93619	0.82541	ENSG00000171794
-0.93614	0.8254	ENSG00000146122
-0.93612	0.8254	ENSG00000167904
0.93596	0.17465	ENSG00000155090
0.9359	0.17466	ENSG00000070759
-0.93567	0.82528	ENSG00000205359
0.93558	0.17474	ENSG00000162814
0.93558	0.17475	ENSG00000137200
0.93557	0.17475	ENSG00000123975
-0.93526	0.82517	ENSG00000184436
-0.93515	0.82514	ENSG00000087494
-0.93514	0.82514	ENSG00000106636
0.93512	0.17486	ENSG00000107317
0.93506	0.17488	ENSG00000267120
0.93487	0.17493	ENSG00000198682
-0.93484	0.82506	ENSG00000169860
-0.93467	0.82502	ENSG00000165338
-0.93464	0.82501	ENSG00000064225
-0.93455	0.82499	ENSG00000165525
0.93448	0.17503	ENSG00000153487
-0.93445	0.82496	ENSG00000269795
0.93431	0.17507	ENSG00000114670
0.9343	0.17507	ENSG00000107164
-0.93426	0.82492	ENSG00000120162
-0.93425	0.82491	ENSG00000163781
0.93423	0.17509	ENSG00000196663
-0.93402	0.82485	ENSG00000178150
0.93382	0.1752	ENSG00000050767
-0.93373	0.82478	ENSG00000179059

-0.93363	0.82475	ENSG00000173093
0.93354	0.17527	ENSG00000162365
-0.93347	0.82471	ENSG00000106080
-0.93346	0.82471	ENSG00000162290
0.93345	0.17529	ENSG00000182095
0.93342	0.1753	ENSG00000143341
0.9334	0.17531	ENSG00000116574
0.93337	0.17532	ENSG00000163584
0.93313	0.17538	ENSG00000006634
0.93295	0.17542	ENSG00000179604
-0.93288	0.82456	ENSG00000110925
0.93243	0.17556	ENSG00000104835
0.93243	0.17556	ENSG00000269547
-0.93242	0.82444	ENSG00000163297
-0.93228	0.8244	ENSG00000174721
-0.93221	0.82439	ENSG00000178591
0.93216	0.17563	ENSG00000197961
0.93214	0.17563	ENSG00000179627
-0.93168	0.82425	ENSG00000137877
0.9316	0.17577	ENSG00000263053
0.93155	0.17579	ENSG00000183971
0.93153	0.17579	ENSG00000170345
-0.93152	0.82421	ENSG00000105610
0.93147	0.1758	ENSG00000150873
-0.93128	0.82415	ENSG00000159251
0.93124	0.17587	ENSG00000127863
-0.93117	0.82412	ENSG00000139645
-0.93113	0.82411	ENSG00000162971
-0.93084	0.82403	ENSG00000134569
0.93073	0.176	ENSG00000198168
-0.93036	0.82391	ENSG00000185730
-0.93008	0.82384	ENSG00000108753
0.93004	0.17617	ENSG00000144331
0.92993	0.1762	ENSG00000164163
0.92991	0.17621	ENSG00000108819
0.9299	0.17621	ENSG00000153879
0.92987	0.17622	ENSG00000122359
-0.92985	0.82378	ENSG00000169605
-0.92979	0.82376	ENSG00000141141
-0.92975	0.82375	ENSG00000081277
-0.92953	0.82369	ENSG00000134489
-0.92941	0.82366	ENSG00000205029
-0.92935	0.82364	ENSG00000104738
-0.92932	0.82364	ENSG00000197084
0.92922	0.17639	ENSG00000185467
0.92917	0.1764	ENSG00000108395
0.92913	0.17641	ENSG00000107518
-0.92907	0.82357	ENSG00000205309
-0.92905	0.82357	ENSG00000120318
0.92865	0.17653	ENSG00000170891
-0.92857	0.82344	ENSG00000164093

-0.92852	0.82343	ENSG00000106077
-0.9285	0.82343	ENSG00000050730
0.92826	0.17664	ENSG00000156136
0.92818	0.17666	ENSG00000071994
0.92813	0.17667	ENSG00000213741
-0.92801	0.8233	ENSG00000178922
0.92779	0.17676	ENSG00000156958
0.92746	0.17684	ENSG00000101493
-0.92736	0.82313	ENSG00000124610
-0.92679	0.82298	ENSG00000196456
0.92653	0.17708	ENSG00000111707
0.92647	0.1771	ENSG00000235942
-0.92646	0.8229	ENSG00000182389
0.92641	0.17712	ENSG00000152409
-0.92625	0.82284	ENSG00000146233
-0.92623	0.82284	ENSG00000131042
-0.92612	0.82281	ENSG00000166126
-0.92595	0.82276	ENSG00000170234
0.92595	0.17724	ENSG00000177614
0.92587	0.17726	ENSG00000132639
-0.92576	0.82271	ENSG00000106819
-0.9257	0.8227	ENSG00000256812
-0.92566	0.82269	ENSG00000185219
0.92566	0.17731	ENSG00000100883
-0.92563	0.82268	ENSG00000212899
-0.92555	0.82266	ENSG00000048545
-0.92554	0.82266	ENSG00000114784
0.92527	0.17741	ENSG00000183495
-0.92526	0.82258	ENSG00000163867
0.92508	0.17746	ENSG00000258984
-0.92503	0.82253	ENSG00000152669
-0.92493	0.8225	ENSG00000232434
-0.9249	0.82249	ENSG00000213139
0.92469	0.17756	ENSG00000205189
-0.92446	0.82238	ENSG00000217825
0.92446	0.17762	ENSG00000172264
-0.92417	0.8223	ENSG00000181927
-0.92405	0.82227	ENSG00000120833
-0.92375	0.82219	ENSG00000139410
0.92366	0.17783	ENSG00000168515
-0.92365	0.82217	ENSG00000135951
0.9236	0.17785	ENSG00000130023
0.92347	0.17788	ENSG00000188730
0.92347	0.17788	ENSG00000185156
0.92345	0.17789	ENSG00000174839
-0.92325	0.82206	ENSG00000109063
-0.92315	0.82204	ENSG00000186188
0.92311	0.17798	ENSG00000089505
-0.92308	0.82202	ENSG00000151150
0.92296	0.17801	ENSG00000258643
-0.92284	0.82195	ENSG00000241468

0.92281	0.17805	ENSG00000185737
-0.92276	0.82193	ENSG00000128309
0.92268	0.17809	ENSG00000174032
0.92261	0.17811	ENSG00000132017
-0.92242	0.82184	ENSG00000123119
-0.92237	0.82183	ENSG00000204614
0.92228	0.17819	ENSG00000130638
-0.92219	0.82179	ENSG00000130255
-0.92209	0.82176	ENSG00000119969
-0.92202	0.82174	ENSG00000130254
-0.9219	0.82171	ENSG00000105723
0.92177	0.17833	ENSG00000178974
0.92163	0.17836	ENSG00000257315
-0.9215	0.82161	ENSG00000160282
0.92144	0.17841	ENSG00000087448
0.9214	0.17842	ENSG00000086102
-0.92137	0.82157	ENSG00000107623
-0.92113	0.82151	ENSG00000003056
-0.9211	0.8215	ENSG00000169900
-0.92082	0.82143	ENSG00000240682
0.92077	0.17859	ENSG00000140326
0.92063	0.17862	ENSG00000145113
-0.92057	0.82136	ENSG00000181518
-0.92055	0.82136	ENSG00000146083
-0.92049	0.82134	ENSG00000106436
0.92031	0.1787	ENSG00000127452
0.92011	0.17876	ENSG00000171443
-0.92005	0.82123	ENSG00000164051
-0.92003	0.82122	ENSG00000130749
0.92001	0.17878	ENSG00000144659
-0.91995	0.8212	ENSG00000268798
0.91982	0.17883	ENSG00000065615
0.91972	0.17886	ENSG00000091483
0.91972	0.17886	ENSG00000160563
-0.91964	0.82112	ENSG00000187815
-0.91931	0.82103	ENSG00000166349
0.91908	0.17903	ENSG00000164300
0.91902	0.17904	ENSG00000147799
-0.919	0.82095	ENSG00000272772
0.91886	0.17908	ENSG00000187013
0.91849	0.17918	ENSG00000174136
-0.91848	0.82082	ENSG00000113504
0.91843	0.1792	ENSG00000173465
-0.91836	0.82078	ENSG00000110911
0.91809	0.17928	ENSG00000100983
0.91807	0.17929	ENSG00000197563
0.91804	0.1793	ENSG00000113595
-0.91802	0.8207	ENSG00000241837
-0.91798	0.82069	ENSG00000135775
-0.91796	0.82068	ENSG00000135976
-0.91788	0.82066	ENSG00000168491

0.91785	0.17935	ENSG00000139514
0.91776	0.17937	ENSG00000185436
0.91737	0.17947	ENSG00000198301
0.91733	0.17948	ENSG00000165156
0.91733	0.17948	ENSG00000103599
-0.9173	0.82051	ENSG00000221829
-0.91725	0.82049	ENSG00000168569
-0.91719	0.82048	ENSG00000226976
-0.91713	0.82046	ENSG00000164134
-0.91697	0.82042	ENSG00000151687
0.91697	0.17958	ENSG00000104953
0.91685	0.17961	ENSG00000169228
0.91681	0.17962	ENSG00000185652
-0.91663	0.82033	ENSG00000197471
-0.91659	0.82032	ENSG00000100167
0.91653	0.17969	ENSG00000188783
0.91638	0.17973	ENSG00000204889
0.91638	0.17973	ENSG00000132671
0.91631	0.17975	ENSG00000124226
0.91624	0.17977	ENSG00000243729
0.91613	0.1798	ENSG00000204560
0.91612	0.1798	ENSG00000100393
-0.91604	0.82018	ENSG00000120656
0.91594	0.17985	ENSG00000153575
0.91583	0.17988	ENSG00000134243
0.91567	0.17992	ENSG00000269468
0.91543	0.17998	ENSG00000174837
0.91535	0.18	ENSG00000158258
0.91532	0.18001	ENSG00000122965
-0.91527	0.81997	ENSG00000149443
-0.91505	0.81992	ENSG00000129151
0.91488	0.18013	ENSG00000198633
-0.91477	0.81984	ENSG00000113532
0.91473	0.18017	ENSG00000186468
0.91462	0.18019	ENSG00000099953
0.91455	0.18022	ENSG00000151881
0.91454	0.18022	ENSG00000100911
0.91444	0.18024	ENSG00000124098
0.91443	0.18025	ENSG00000179262
-0.91438	0.81974	ENSG00000131808
0.91437	0.18026	ENSG00000119471
0.91431	0.18028	ENSG00000100249
-0.91427	0.81971	ENSG00000137310
-0.91416	0.81968	ENSG00000047315
0.91409	0.18033	ENSG00000141098
-0.91407	0.81966	ENSG00000124422
0.91399	0.18036	ENSG00000140299
0.91386	0.1804	ENSG00000149428
0.91377	0.18042	ENSG00000115523
0.91369	0.18044	ENSG00000138303
0.91366	0.18045	ENSG00000102897

0.91366	0.18045	ENSG00000128165
-0.91363	0.81955	ENSG00000184886
-0.91339	0.81948	ENSG00000058804
-0.91325	0.81944	ENSG00000165948
0.91286	0.18066	ENSG00000113597
0.91253	0.18075	ENSG00000198042
-0.91241	0.81922	ENSG00000187017
-0.91232	0.8192	ENSG00000197301
-0.91221	0.81917	ENSG00000203943
0.91202	0.18088	ENSG00000136367
-0.912	0.81912	ENSG00000189143
0.91177	0.18095	ENSG00000213231
0.91176	0.18095	ENSG00000169131
-0.91174	0.81905	ENSG00000142556
0.91161	0.18099	ENSG00000173705
-0.91159	0.81901	ENSG00000137218
-0.91152	0.81899	ENSG00000203791
-0.91138	0.81895	ENSG00000213977
-0.91132	0.81894	ENSG00000145965
0.91128	0.18107	ENSG00000161551
-0.91113	0.81889	ENSG00000100321
0.91113	0.18111	ENSG00000157150
-0.91102	0.81886	ENSG00000174953
0.91102	0.18114	ENSG00000135597
0.91086	0.18118	ENSG00000147862
-0.9108	0.8188	ENSG00000196475
0.9108	0.1812	ENSG00000163795
-0.91066	0.81876	ENSG00000127252
-0.91053	0.81873	ENSG00000136044
0.9105	0.18128	ENSG00000124374
0.9104	0.1813	ENSG00000137507
0.90995	0.18142	ENSG00000141391
-0.90993	0.81857	ENSG00000269549
0.90986	0.18145	ENSG00000184967
-0.90959	0.81848	ENSG00000118520
-0.90956	0.81847	ENSG00000198752
-0.9094	0.81843	ENSG00000067533
0.90927	0.18161	ENSG00000187689
-0.90922	0.81838	ENSG00000140391
0.90896	0.18169	ENSG00000160014
0.90894	0.18169	ENSG00000177483
0.90893	0.18169	ENSG00000183657
0.90881	0.18173	ENSG00000035681
-0.9088	0.81827	ENSG00000105135
0.90878	0.18173	ENSG00000036448
-0.90875	0.81826	ENSG00000130382
0.90874	0.18174	ENSG00000131389
-0.90873	0.81825	ENSG00000196166
-0.90868	0.81824	ENSG00000020577
0.90868	0.18176	ENSG00000038382
-0.90857	0.81821	ENSG00000172935

0.90836	0.18184	ENSG00000140307
0.90819	0.18189	ENSG00000167110
0.90804	0.18193	ENSG00000176595
-0.90793	0.81804	ENSG00000206527
0.90793	0.18196	ENSG00000198835
0.90781	0.18199	ENSG00000124256
-0.90772	0.81799	ENSG00000147488
-0.90766	0.81797	ENSG00000175906
0.90765	0.18203	ENSG00000152104
0.90745	0.18208	ENSG00000164100
0.90745	0.18209	ENSG00000173862
-0.90712	0.81783	ENSG00000189167
0.90712	0.18217	ENSG00000170684
0.90711	0.18217	ENSG00000037241
0.90711	0.18217	ENSG00000128563
0.90706	0.18219	ENSG00000163703
0.90696	0.18221	ENSG00000173567
-0.90688	0.81777	ENSG00000241644
-0.90683	0.81775	ENSG00000162456
-0.90667	0.81771	ENSG00000183161
-0.90667	0.81771	ENSG00000187741
0.90655	0.18232	ENSG00000146192
0.90654	0.18232	ENSG00000113068
0.90652	0.18233	ENSG00000205858
0.90647	0.18234	ENSG00000073146
0.90646	0.18235	ENSG00000165806
-0.90639	0.81763	ENSG00000131668
-0.90634	0.81762	ENSG00000177459
0.90632	0.18238	ENSG00000147883
-0.90626	0.8176	ENSG00000258292
0.90626	0.1824	ENSG00000172742
0.90621	0.18241	ENSG00000226364
-0.90618	0.81758	ENSG00000157017
-0.90604	0.81754	ENSG00000120942
0.90585	0.18251	ENSG00000185527
0.90579	0.18252	ENSG00000179094
0.90566	0.18256	ENSG00000166839
-0.90542	0.81738	ENSG00000069329
-0.90534	0.81736	ENSG00000151623
-0.90532	0.81735	ENSG00000143554
0.90522	0.18267	ENSG00000204683
-0.90508	0.81729	ENSG00000182199
-0.90456	0.81715	ENSG00000205022
0.90447	0.18287	ENSG00000155287
0.90447	0.18287	ENSG00000132874
0.90445	0.18288	ENSG00000177732
0.9043	0.18292	ENSG00000091831
-0.90424	0.81707	ENSG00000182010
0.90414	0.18296	ENSG00000112242
-0.90407	0.81702	ENSG00000122543
-0.90398	0.817	ENSG00000153233

0.90365	0.18309	ENSG00000100711
-0.90357	0.81689	ENSG00000188015
-0.90356	0.81689	ENSG00000206483
0.90333	0.18317	ENSG00000254788
-0.90325	0.8168	ENSG00000093010
-0.90295	0.81672	ENSG00000188817
0.90272	0.18334	ENSG00000167131
0.90262	0.18336	ENSG00000147684
-0.90254	0.81661	ENSG00000125991
0.90253	0.18339	ENSG00000121380
-0.90246	0.81659	ENSG00000110060
-0.90245	0.81659	ENSG00000150893
0.90242	0.18342	ENSG00000260914
0.90229	0.18345	ENSG00000125046
0.90225	0.18346	ENSG00000187003
-0.9022	0.81652	ENSG00000021776
0.9022	0.18348	ENSG00000062650
-0.90219	0.81652	ENSG00000214189
0.90215	0.18349	ENSG00000187546
0.90207	0.18351	ENSG00000112855
0.90199	0.18353	ENSG00000168005
0.90197	0.18354	ENSG00000112210
0.90197	0.18354	ENSG00000100399
0.90177	0.18359	ENSG00000126803
-0.90159	0.81636	ENSG00000135577
0.90155	0.18365	ENSG00000135604
0.90151	0.18366	ENSG00000153406
0.90141	0.18368	ENSG00000127314
0.9011	0.18377	ENSG00000168495
0.90108	0.18377	ENSG00000142789
-0.90105	0.81622	ENSG00000155097
0.90102	0.18379	ENSG00000125386
0.90091	0.18382	ENSG00000161929
-0.9006	0.8161	ENSG00000170291
-0.9006	0.8161	ENSG00000099624
0.90059	0.1839	ENSG00000111605
0.90053	0.18392	ENSG00000162711
-0.90032	0.81602	ENSG00000198837
-0.90009	0.81596	ENSG00000164151
0.90009	0.18404	ENSG00000117707
-0.89998	0.81594	ENSG00000187021
0.89985	0.1841	ENSG00000268265
-0.89982	0.81589	ENSG00000102805
-0.89979	0.81588	ENSG00000114446
0.89966	0.18415	ENSG00000158485
-0.89961	0.81584	ENSG00000105173
-0.8996	0.81583	ENSG00000083454
-0.89957	0.81582	ENSG00000113525
-0.89937	0.81577	ENSG00000198001
-0.89934	0.81576	ENSG00000027001
-0.89925	0.81574	ENSG00000205857

-0.89916	0.81572	ENSG00000112697
0.89901	0.18432	ENSG00000166886
0.899	0.18433	ENSG00000123094
0.89892	0.18435	ENSG00000254858
0.89887	0.18436	ENSG00000133872
-0.89861	0.81557	ENSG00000117592
-0.89797	0.8154	ENSG00000150337
0.89784	0.18464	ENSG00000119979
0.89782	0.18464	ENSG00000090316
-0.8977	0.81533	ENSG00000175206
-0.8976	0.8153	ENSG00000196990
0.89748	0.18473	ENSG00000143106
0.89735	0.18477	ENSG00000164588
0.8973	0.18478	ENSG00000269028
0.89725	0.18479	ENSG00000156804
-0.89722	0.8152	ENSG00000007047
0.8972	0.1848	ENSG00000151065
0.89717	0.18481	ENSG00000213865
0.89716	0.18482	ENSG00000110057
0.8971	0.18483	ENSG00000136908
-0.89694	0.81512	ENSG00000162086
0.89691	0.18488	ENSG00000175575
0.89688	0.18489	ENSG00000113360
-0.89666	0.81505	ENSG00000204613
-0.89654	0.81502	ENSG00000116668
-0.89654	0.81502	ENSG00000075275
-0.89643	0.81499	ENSG00000152284
-0.89643	0.81499	ENSG00000180053
0.89635	0.18503	ENSG00000224361
-0.89631	0.81496	ENSG00000168329
0.8963	0.18505	ENSG00000136574
0.89617	0.18508	ENSG00000265629
-0.8961	0.8149	ENSG00000135973
0.89604	0.18511	ENSG00000160791
0.89601	0.18512	ENSG00000110422
-0.89591	0.81485	ENSG00000183251
0.89551	0.18526	ENSG00000186943
-0.89538	0.81471	ENSG00000254772
0.89538	0.18529	ENSG00000205085
0.89528	0.18532	ENSG00000169718
-0.8952	0.81466	ENSG00000183317
-0.895	0.81461	ENSG00000132507
-0.89498	0.8146	ENSG00000104884
-0.89497	0.8146	ENSG00000185386
-0.89493	0.81459	ENSG00000103496
-0.89485	0.81457	ENSG00000205670
-0.89479	0.81455	ENSG00000183955
0.89478	0.18545	ENSG00000196503
-0.89461	0.8145	ENSG00000130813
0.8946	0.1855	ENSG00000204377
0.89459	0.1855	ENSG00000110723

0.89455	0.18551	ENSG00000184363
0.89405	0.18565	ENSG00000186340
0.89404	0.18565	ENSG00000233493
0.89397	0.18567	ENSG00000156735
0.89396	0.18567	ENSG00000130707
0.89392	0.18568	ENSG00000197272
-0.89348	0.8142	ENSG00000124151
0.89326	0.18586	ENSG00000258677
0.8929	0.18595	ENSG00000267981
0.89284	0.18597	ENSG00000182333
0.89282	0.18598	ENSG00000111885
-0.89279	0.81402	ENSG00000154767
-0.89261	0.81397	ENSG00000177174
0.89257	0.18605	ENSG00000141505
0.89248	0.18607	ENSG00000180828
-0.89224	0.81387	ENSG00000168434
0.89224	0.18613	ENSG00000123179
-0.89222	0.81386	ENSG00000262543
0.89204	0.18618	ENSG00000185518
-0.89196	0.81379	ENSG00000161888
0.8919	0.18622	ENSG00000185774
0.89188	0.18623	ENSG00000110880
0.89169	0.18628	ENSG00000166930
0.89156	0.18632	ENSG00000165914
0.89145	0.18634	ENSG00000272442
-0.89134	0.81363	ENSG00000172188
-0.89133	0.81362	ENSG00000075399
0.89125	0.1864	ENSG00000100884
-0.89118	0.81358	ENSG00000187944
-0.89101	0.81354	ENSG00000236882
0.89084	0.18651	ENSG00000072163
0.89061	0.18657	ENSG00000157734
-0.89058	0.81342	ENSG00000174871
-0.89046	0.81339	ENSG00000273452
-0.89022	0.81333	ENSG00000083535
0.89014	0.18669	ENSG00000144681
-0.89004	0.81328	ENSG00000176208
0.88999	0.18674	ENSG00000011590
-0.88995	0.81325	ENSG00000175390
0.8898	0.18679	ENSG00000044012
-0.88977	0.8132	ENSG00000106633
0.88971	0.18681	ENSG00000080618
0.88962	0.18683	ENSG00000166997
0.88949	0.18687	ENSG00000176020
0.88949	0.18687	ENSG00000173540
0.88947	0.18687	ENSG00000080824
-0.88937	0.8131	ENSG00000076928
-0.88936	0.8131	ENSG00000132376
0.8892	0.18695	ENSG00000174606
-0.88919	0.81305	ENSG00000067066
-0.88916	0.81304	ENSG00000151778

0.88904	0.18699	ENSG00000152954
0.88893	0.18702	ENSG00000196150
0.88892	0.18702	ENSG00000128652
0.88886	0.18704	ENSG00000173389
-0.88884	0.81295	ENSG00000161055
-0.88878	0.81294	ENSG00000228198
-0.88868	0.81291	ENSG00000103152
0.88851	0.18713	ENSG00000133250
0.88839	0.18717	ENSG00000169302
0.8883	0.18719	ENSG00000118162
-0.88803	0.81274	ENSG00000048162
0.888	0.18727	ENSG00000166211
-0.88795	0.81272	ENSG00000117501
0.88758	0.18738	ENSG00000105698
0.88741	0.18743	ENSG00000160818
-0.88726	0.81253	ENSG00000149531
-0.88719	0.81251	ENSG00000179397
-0.88708	0.81248	ENSG00000105171
0.88706	0.18752	ENSG00000236980
0.88704	0.18753	ENSG00000054598
-0.88683	0.81241	ENSG00000152778
-0.88657	0.81235	ENSG00000242866
-0.88648	0.81232	ENSG00000165804
0.88646	0.18768	ENSG00000138750
0.88645	0.18769	ENSG00000110169
0.88643	0.18769	ENSG00000177054
0.88631	0.18773	ENSG00000185624
0.88628	0.18773	ENSG00000170100
-0.88614	0.81223	ENSG00000205213
0.88614	0.18777	ENSG00000115902
0.88611	0.18778	ENSG00000035720
0.88586	0.18785	ENSG00000092621
-0.88583	0.81215	ENSG00000187175
-0.88579	0.81213	ENSG00000136940
-0.88579	0.81213	ENSG00000171206
0.88577	0.18787	ENSG00000151838
0.88572	0.18788	ENSG00000160785
0.88563	0.18791	ENSG00000119922
0.88562	0.18791	ENSG00000196821
-0.88547	0.81205	ENSG00000135373
0.88537	0.18798	ENSG00000186451
0.88528	0.188	ENSG00000095059
0.88524	0.18801	ENSG00000214447
-0.88497	0.81191	ENSG00000204335
-0.88496	0.81191	ENSG00000172366
0.88492	0.1881	ENSG00000204524
0.88485	0.18812	ENSG00000175619
-0.88484	0.81188	ENSG00000164733
0.88474	0.18815	ENSG00000173020
0.8847	0.18816	ENSG00000128656
-0.8846	0.81181	ENSG00000173327

0.88452	0.18821	ENSG00000120690
-0.88435	0.81175	ENSG00000053501
0.88417	0.1883	ENSG00000221890
0.88416	0.18831	ENSG00000196772
0.88409	0.18832	ENSG00000100124
0.88403	0.18834	ENSG00000165669
-0.88377	0.81159	ENSG00000108963
0.88375	0.18841	ENSG00000168746
0.88365	0.18844	ENSG00000188107
-0.88345	0.8115	ENSG00000135919
0.88335	0.18852	ENSG00000185024
-0.88334	0.81147	ENSG00000145428
-0.88334	0.81147	ENSG00000126773
0.88334	0.18853	ENSG00000241839
0.88314	0.18858	ENSG00000110076
-0.88311	0.81141	ENSG00000138835
-0.88305	0.8114	ENSG00000168765
0.88293	0.18864	ENSG00000173762
-0.8829	0.81135	ENSG00000177688
-0.88282	0.81133	ENSG00000165271
0.8825	0.18875	ENSG00000174093
0.8825	0.18875	ENSG00000198171
0.88243	0.18877	ENSG00000173452
-0.88233	0.8112	ENSG00000149115
-0.88229	0.81119	ENSG00000133678
-0.88218	0.81116	ENSG00000136002
0.88212	0.18885	ENSG00000130751
-0.88194	0.8111	ENSG00000164091
-0.88181	0.81106	ENSG00000184983
-0.88175	0.81104	ENSG00000162999
0.88174	0.18896	ENSG00000121904
0.88165	0.18898	ENSG00000123815
-0.88149	0.81097	ENSG00000007341
-0.88147	0.81097	ENSG00000104415
0.88141	0.18905	ENSG00000196378
-0.88132	0.81093	ENSG00000099991
0.88121	0.1891	ENSG00000198090
0.88113	0.18912	ENSG00000132359
-0.88096	0.81083	ENSG00000196636
0.88089	0.18919	ENSG00000188372
-0.88082	0.81079	ENSG00000095203
-0.88081	0.81079	ENSG00000154227
-0.88075	0.81077	ENSG00000111799
0.88075	0.18923	ENSG00000136819
-0.88063	0.81074	ENSG00000162604
0.8806	0.18927	ENSG00000015133
-0.88044	0.81069	ENSG00000139133
-0.88039	0.81068	ENSG00000170260
0.88036	0.18933	ENSG00000122304
-0.88026	0.81064	ENSG00000131409
-0.88013	0.81061	ENSG00000140455

-0.88008	0.81059	ENSG00000173285
0.87984	0.18947	ENSG00000259066
0.87983	0.18948	ENSG00000111087
-0.87977	0.81051	ENSG00000164823
0.87974	0.1895	ENSG00000084463
0.8796	0.18954	ENSG00000063127
0.87952	0.18956	ENSG00000176244
0.87924	0.18964	ENSG00000067900
0.87922	0.18964	ENSG00000104341
0.87913	0.18966	ENSG00000182263
0.87874	0.18977	ENSG00000259658
-0.87859	0.81019	ENSG00000163754
0.87858	0.18981	ENSG00000169504
-0.87852	0.81017	ENSG00000167654
0.87807	0.18995	ENSG00000115204
-0.87805	0.81004	ENSG00000243710
0.87787	0.19001	ENSG00000144820
-0.87784	0.80998	ENSG00000148187
0.87783	0.19002	ENSG00000186509
-0.87774	0.80996	ENSG00000268324
0.87774	0.19004	ENSG00000196843
-0.87773	0.80995	ENSG00000034677
0.87762	0.19008	ENSG00000100372
0.87751	0.1901	ENSG00000182732
-0.87738	0.80986	ENSG00000221866
0.8773	0.19016	ENSG00000248483
-0.87729	0.80984	ENSG00000105737
0.87727	0.19017	ENSG00000169607
-0.8772	0.80981	ENSG00000142507
0.8771	0.19022	ENSG00000104765
-0.87701	0.80976	ENSG00000172932
0.87698	0.19025	ENSG00000196758
0.87693	0.19026	ENSG00000177311
-0.87692	0.80973	ENSG00000126821
-0.87688	0.80972	ENSG00000146409
0.87661	0.19035	ENSG00000174586
0.87649	0.19038	ENSG00000214597
0.87612	0.19048	ENSG00000064999
-0.87557	0.80937	ENSG00000169398
0.87539	0.19068	ENSG00000104047
-0.87533	0.8093	ENSG00000138071
0.87532	0.1907	ENSG00000175264
0.87528	0.19071	ENSG00000171962
0.87527	0.19071	ENSG00000168374
-0.87508	0.80924	ENSG00000188542
0.87508	0.19077	ENSG00000101463
0.87507	0.19077	ENSG00000122254
0.87486	0.19082	ENSG00000155367
0.87477	0.19085	ENSG00000105255
0.87465	0.19088	ENSG00000153006
0.87452	0.19092	ENSG00000168228

-0.87447	0.80907	ENSG00000178149
0.87439	0.19095	ENSG00000142185
0.87433	0.19097	ENSG00000168813
-0.87425	0.80901	ENSG00000122033
-0.87421	0.809	ENSG00000143536
0.87406	0.19104	ENSG00000120341
-0.87401	0.80894	ENSG00000149506
-0.87392	0.80892	ENSG00000174928
0.87368	0.19115	ENSG00000184986
0.87364	0.19116	ENSG00000170955
-0.87345	0.80879	ENSG00000168539
0.87344	0.19121	ENSG00000135452
-0.8734	0.80878	ENSG00000113812
0.87328	0.19125	ENSG00000198216
0.87296	0.19134	ENSG00000115137
0.87292	0.19135	ENSG00000197893
0.87287	0.19137	ENSG00000092531
-0.87273	0.80859	ENSG00000110492
0.87267	0.19142	ENSG00000147573
0.8726	0.19144	ENSG00000166589
-0.87245	0.80852	ENSG00000132964
0.8721	0.19158	ENSG00000110675
-0.87202	0.8084	ENSG00000082701
0.87177	0.19167	ENSG00000127666
0.87168	0.19169	ENSG00000130669
0.87163	0.1917	ENSG00000128617
0.87145	0.19176	ENSG00000182053
-0.87144	0.80824	ENSG00000156011
0.87108	0.19185	ENSG00000115665
0.87108	0.19186	ENSG00000257327
-0.87081	0.80807	ENSG00000101445
0.87063	0.19198	ENSG00000089012
0.8706	0.19198	ENSG00000198369
-0.87046	0.80798	ENSG00000183760
-0.87045	0.80797	ENSG00000007174
0.87031	0.19207	ENSG00000127412
-0.8702	0.80791	ENSG00000111731
0.8701	0.19212	ENSG00000078295
-0.87001	0.80785	ENSG00000198535
-0.86996	0.80784	ENSG00000215462
-0.86994	0.80783	ENSG00000105357
0.8699	0.19218	ENSG00000086289
0.86986	0.19219	ENSG00000176160
-0.86944	0.8077	ENSG00000138363
-0.86942	0.80769	ENSG00000115568
0.86925	0.19235	ENSG00000145321
-0.86897	0.80757	ENSG00000198925
0.86894	0.19244	ENSG00000160013
-0.86891	0.80755	ENSG00000136897
0.86891	0.19245	ENSG00000108219
0.86889	0.19245	ENSG00000100201

0.86885	0.19246	ENSG00000136826
0.86868	0.19251	ENSG00000125965
-0.86861	0.80747	ENSG00000221858
-0.86846	0.80743	ENSG00000124302
-0.86839	0.80741	ENSG00000173660
0.86834	0.1926	ENSG00000166348
-0.86813	0.80734	ENSG00000104537
0.86799	0.1927	ENSG00000223510
-0.86794	0.80729	ENSG00000107560
0.86782	0.19275	ENSG00000165006
0.86759	0.19281	ENSG00000213996
-0.86755	0.80718	ENSG00000141568
-0.86734	0.80712	ENSG00000164002
-0.86713	0.80707	ENSG00000197077
-0.86709	0.80705	ENSG00000104332
-0.86693	0.80701	ENSG00000099958
-0.86692	0.80701	ENSG00000115159
0.86687	0.19301	ENSG00000127337
0.86674	0.19304	ENSG00000121749
-0.86652	0.8069	ENSG00000232112
-0.86652	0.8069	ENSG00000028277
0.86642	0.19313	ENSG00000078808
-0.86618	0.8068	ENSG00000166963
0.86607	0.19323	ENSG00000143776
0.866	0.19325	ENSG00000181963
-0.86583	0.80671	ENSG00000152763
-0.86581	0.8067	ENSG00000165644
0.8658	0.1933	ENSG00000255737
-0.8657	0.80667	ENSG00000158296
0.8657	0.19333	ENSG00000217128
-0.86566	0.80666	ENSG00000173786
-0.86563	0.80665	ENSG00000140297
-0.8656	0.80664	ENSG00000125813
0.86553	0.19337	ENSG00000197070
-0.86552	0.80662	ENSG00000107223
0.86535	0.19342	ENSG00000171295
-0.86532	0.80657	ENSG00000198795
0.86522	0.19346	ENSG00000248385
-0.86506	0.8065	ENSG00000164754
0.86501	0.19352	ENSG00000110324
-0.86491	0.80646	ENSG00000031823
0.86486	0.19356	ENSG00000177383
-0.86482	0.80643	ENSG00000115464
-0.86479	0.80642	ENSG00000052126
-0.86456	0.80636	ENSG00000094914
-0.86451	0.80635	ENSG00000197279
-0.86439	0.80631	ENSG00000214113
0.8642	0.19374	ENSG00000188800
-0.86398	0.8062	ENSG00000268856
0.86396	0.1938	ENSG00000175182
0.86389	0.19382	ENSG00000162631

0.86379	0.19385	ENSG00000176714
0.86356	0.19391	ENSG00000151353
0.86355	0.19392	ENSG00000167910
0.86352	0.19392	ENSG00000273217
0.86339	0.19396	ENSG00000217555
0.86284	0.19411	ENSG00000269591
0.86272	0.19415	ENSG00000173821
0.86271	0.19415	ENSG00000198570
0.86264	0.19417	ENSG00000258973
-0.86258	0.80582	ENSG00000163956
0.86251	0.1942	ENSG00000114854
-0.86242	0.80577	ENSG00000188242
0.8624	0.19423	ENSG00000102683
0.86231	0.19426	ENSG00000163440
-0.86222	0.80572	ENSG00000185246
-0.86219	0.80571	ENSG00000150540
0.86217	0.1943	ENSG00000173409
-0.86214	0.80569	ENSG00000242019
-0.86213	0.80569	ENSG00000151332
-0.86183	0.80561	ENSG00000240583
0.86182	0.19439	ENSG00000125107
-0.86173	0.80558	ENSG00000250510
0.86168	0.19443	ENSG00000146477
-0.86152	0.80552	ENSG00000180210
0.86139	0.19451	ENSG00000175548
0.86138	0.19451	ENSG00000126259
-0.86137	0.80548	ENSG00000178473
-0.86126	0.80545	ENSG00000115841
-0.86122	0.80544	ENSG00000269113
0.8612	0.19456	ENSG00000103707
-0.86119	0.80543	ENSG00000187231
0.86105	0.19461	ENSG00000147432
0.86097	0.19463	ENSG00000011454
-0.86093	0.80536	ENSG00000166960
0.86092	0.19464	ENSG00000143878
0.86086	0.19466	ENSG00000170873
0.8608	0.19467	ENSG00000137251
-0.86079	0.80532	ENSG00000181001
-0.8607	0.8053	ENSG00000232810
-0.86065	0.80528	ENSG00000163995
-0.86036	0.8052	ENSG00000178372
0.86017	0.19485	ENSG00000177600
0.85991	0.19492	ENSG00000111912
-0.85951	0.80497	ENSG00000156787
0.85931	0.19509	ENSG00000212721
-0.85929	0.80491	ENSG00000102935
-0.85914	0.80487	ENSG00000198198
-0.85913	0.80487	ENSG00000117600
0.85913	0.19513	ENSG00000223609
-0.85906	0.80485	ENSG00000162517
0.85891	0.19519	ENSG00000154678

-0.85858	0.80471	ENSG00000136319
0.85845	0.19532	ENSG00000183309
-0.85844	0.80468	ENSG00000091664
0.85843	0.19533	ENSG00000090487
0.85833	0.19535	ENSG00000105699
0.85832	0.19536	ENSG00000116213
0.85817	0.1954	ENSG00000170837
0.85801	0.19544	ENSG00000113273
0.85781	0.1955	ENSG00000268275
0.85753	0.19557	ENSG00000025796
0.8575	0.19559	ENSG00000078399
-0.85733	0.80437	ENSG00000164841
-0.85732	0.80437	ENSG00000153714
0.85732	0.19563	ENSG00000067082
0.85723	0.19566	ENSG00000167664
-0.857	0.80428	ENSG00000010278
-0.85694	0.80426	ENSG00000112079
-0.85692	0.80425	ENSG00000189283
-0.85688	0.80425	ENSG00000130684
0.85683	0.19577	ENSG00000198128
-0.85682	0.80423	ENSG00000258945
0.85671	0.1958	ENSG00000077782
-0.85656	0.80415	ENSG00000148832
-0.85613	0.80404	ENSG00000138356
-0.85604	0.80401	ENSG00000120149
0.85602	0.19599	ENSG00000162444
0.85593	0.19602	ENSG00000100395
-0.8558	0.80395	ENSG00000105755
0.85565	0.1961	ENSG00000188770
-0.85564	0.8039	ENSG00000255508
-0.85561	0.80389	ENSG00000135049
-0.85559	0.80389	ENSG00000231500
-0.85558	0.80388	ENSG00000049540
0.85553	0.19613	ENSG00000179583
-0.85551	0.80387	ENSG00000157890
-0.85534	0.80382	ENSG00000118939
-0.85518	0.80377	ENSG00000135374
-0.85507	0.80374	ENSG00000158169
-0.85506	0.80374	ENSG00000075624
0.85494	0.19629	ENSG00000188676
0.85492	0.1963	ENSG00000241595
0.85491	0.1963	ENSG00000100897
0.85476	0.19634	ENSG00000164532
-0.85463	0.80362	ENSG00000177932
0.85434	0.19646	ENSG00000167461
0.85428	0.19648	ENSG00000093009
-0.85425	0.80352	ENSG00000183273
-0.85408	0.80347	ENSG00000111206
0.85408	0.19653	ENSG00000125618
0.85395	0.19657	ENSG00000180332
0.85386	0.19659	ENSG00000107798

-0.85384	0.8034	ENSG00000168209
-0.85372	0.80337	ENSG00000152034
-0.8537	0.80336	ENSG00000174851
-0.85357	0.80333	ENSG00000091513
-0.85348	0.8033	ENSG00000112787
-0.85323	0.80323	ENSG00000174948
-0.8532	0.80323	ENSG00000081059
0.85314	0.19679	ENSG00000005486
0.8531	0.1968	ENSG00000181019
0.85297	0.19684	ENSG00000134627
-0.85263	0.80307	ENSG00000184731
-0.8526	0.80306	ENSG00000162923
-0.85246	0.80302	ENSG00000212993
0.85246	0.19698	ENSG00000105821
-0.85237	0.803	ENSG00000120729
-0.85209	0.80292	ENSG00000070413
0.852	0.19711	ENSG00000167196
-0.85165	0.8028	ENSG00000111737
0.85161	0.19722	ENSG00000126709
0.85129	0.1973	ENSG00000170369
0.85126	0.19731	ENSG00000140557
-0.85124	0.80268	ENSG00000120645
-0.85118	0.80267	ENSG00000167863
0.85109	0.19736	ENSG00000106772
-0.85107	0.80264	ENSG00000127946
0.85077	0.19745	ENSG00000082482
0.85069	0.19747	ENSG00000182318
0.85061	0.19749	ENSG00000126602
0.85054	0.19751	ENSG00000101003
0.85029	0.19758	ENSG00000163633
-0.85017	0.80239	ENSG00000048471
0.84995	0.19768	ENSG00000109107
-0.84987	0.8023	ENSG00000269407
0.84969	0.19775	ENSG00000204695
-0.84968	0.80225	ENSG00000117395
-0.84963	0.80223	ENSG00000166925
0.8496	0.19777	ENSG00000164647
-0.84959	0.80222	ENSG00000179152
0.84955	0.19779	ENSG00000186652
-0.84952	0.8022	ENSG00000151892
-0.84949	0.8022	ENSG00000159403
-0.84944	0.80218	ENSG00000249222
-0.8493	0.80214	ENSG00000196209
-0.84926	0.80213	ENSG00000117115
-0.84904	0.80207	ENSG00000183770
-0.84887	0.80202	ENSG00000143842
0.8488	0.198	ENSG00000140932
0.84871	0.19802	ENSG00000100784
0.84866	0.19803	ENSG00000111729
0.84859	0.19805	ENSG00000256269
-0.84858	0.80194	ENSG00000146910

-0.84846	0.80191	ENSG00000137274
0.84834	0.19813	ENSG00000124731
-0.84817	0.80183	ENSG00000053371
-0.84799	0.80178	ENSG00000173276
0.84765	0.19832	ENSG00000173473
-0.84763	0.80168	ENSG00000128394
-0.84749	0.80164	ENSG00000158636
-0.84731	0.80159	ENSG00000105492
0.84712	0.19846	ENSG00000100280
0.84693	0.19852	ENSG00000158987
0.84692	0.19852	ENSG00000259900
0.84689	0.19853	ENSG00000187173
0.84688	0.19853	ENSG00000100151
-0.84654	0.80137	ENSG00000128228
-0.84647	0.80135	ENSG00000213213
-0.84647	0.80136	ENSG00000119203
-0.84633	0.80132	ENSG00000103089
-0.84631	0.80131	ENSG00000171811
0.84625	0.19871	ENSG00000186417
-0.84624	0.80129	ENSG00000186642
-0.84607	0.80124	ENSG00000157954
0.84601	0.19877	ENSG00000114850
0.84586	0.19881	ENSG00000214694
-0.84584	0.80118	ENSG00000172774
-0.84583	0.80118	ENSG00000197683
-0.84582	0.80117	ENSG00000064601
-0.84576	0.80116	ENSG00000105519
0.84561	0.19889	ENSG00000103222
0.84544	0.19893	ENSG00000128655
0.84541	0.19894	ENSG00000174100
-0.84533	0.80104	ENSG00000176928
0.84521	0.199	ENSG00000104361
-0.84513	0.80098	ENSG00000160917
-0.84501	0.80095	ENSG00000069122
-0.84488	0.80091	ENSG00000104442
0.84485	0.1991	ENSG00000152932
-0.84483	0.8009	ENSG00000131508
-0.84483	0.8009	ENSG00000165443
0.84481	0.19911	ENSG00000239305
-0.84479	0.80089	ENSG00000143512
0.84466	0.19915	ENSG00000170421
0.84438	0.19923	ENSG00000265303
0.84413	0.1993	ENSG00000112029
0.84401	0.19933	ENSG00000158055
0.84386	0.19937	ENSG00000120696
0.8438	0.19939	ENSG00000253110
-0.84375	0.8006	ENSG00000145431
-0.8437	0.80058	ENSG00000113312
-0.8436	0.80055	ENSG00000268950
0.84353	0.19947	ENSG00000112367
-0.84346	0.80051	ENSG00000169208

0.84345	0.19949	ENSG00000099864
-0.84334	0.80048	ENSG00000152292
0.84329	0.19953	ENSG00000180938
-0.84325	0.80045	ENSG00000177398
0.84321	0.19956	ENSG00000116198
-0.84312	0.80042	ENSG00000142677
0.8431	0.19959	ENSG00000186300
0.84305	0.1996	ENSG00000188152
0.84279	0.19967	ENSG00000159216
0.84273	0.19969	ENSG00000123353
-0.84271	0.8003	ENSG00000146433
0.84262	0.19972	ENSG00000169169
0.84253	0.19975	ENSG00000137878
-0.84232	0.8002	ENSG00000185745
-0.84227	0.80018	ENSG00000166199
-0.84224	0.80017	ENSG00000101333
0.84215	0.19985	ENSG00000181634
0.84212	0.19986	ENSG00000123838
0.84191	0.19992	ENSG00000100095
0.84188	0.19993	ENSG00000204880
-0.84181	0.80005	ENSG00000162623
-0.8418	0.80005	ENSG00000171877
0.84158	0.20001	ENSG00000187566
0.8414	0.20006	ENSG00000068903
-0.84136	0.79993	ENSG00000127995
0.84125	0.2001	ENSG00000139160
-0.84112	0.79986	ENSG00000131482
-0.84111	0.79986	ENSG00000121691
-0.84097	0.79982	ENSG00000169575
-0.84093	0.79981	ENSG00000170265
-0.8409	0.7998	ENSG00000182768
-0.8409	0.7998	ENSG00000105647
0.84082	0.20023	ENSG00000174227
0.8406	0.20029	ENSG00000144306
0.8406	0.20029	ENSG00000205669
-0.84047	0.79968	ENSG00000112651
0.84037	0.20035	ENSG00000133246
0.84035	0.20035	ENSG00000087077
0.84015	0.20041	ENSG00000111877
-0.84014	0.79958	ENSG00000104313
0.83995	0.20047	ENSG00000090273
0.83991	0.20048	ENSG00000186001
-0.8399	0.79952	ENSG00000109832
0.83971	0.20054	ENSG00000171953
0.83928	0.20066	ENSG00000070366
-0.83916	0.79931	ENSG00000186260
-0.83905	0.79928	ENSG00000136929
-0.83901	0.79927	ENSG00000134042
0.83874	0.20081	ENSG00000115758
0.83866	0.20083	ENSG00000136694
-0.83865	0.79917	ENSG00000172346

0.83865	0.20083	ENSG00000058453
-0.83859	0.79915	ENSG00000103740
-0.83858	0.79915	ENSG00000206503
-0.8384	0.7991	ENSG00000178567
-0.83839	0.79909	ENSG00000111142
-0.83831	0.79907	ENSG00000142856
0.83809	0.20099	ENSG00000181392
0.83802	0.20101	ENSG00000145687
-0.83798	0.79898	ENSG00000135519
-0.83797	0.79898	ENSG00000075391
0.83769	0.2011	ENSG00000155511
0.83761	0.20112	ENSG00000172239
0.83754	0.20115	ENSG00000244038
0.83751	0.20115	ENSG00000120805
-0.83749	0.79884	ENSG00000197595
-0.83744	0.79883	ENSG00000181894
0.83735	0.2012	ENSG00000162981
0.83721	0.20124	ENSG00000042304
0.83713	0.20126	ENSG00000146776
-0.83702	0.79871	ENSG00000163923
0.83689	0.20133	ENSG00000105355
0.83686	0.20134	ENSG00000087365
0.83679	0.20136	ENSG00000239264
-0.83671	0.79862	ENSG00000125166
0.8367	0.20138	ENSG00000062282
0.83665	0.2014	ENSG00000173207
-0.83663	0.7986	ENSG00000141298
0.8366	0.20141	ENSG00000143669
-0.83652	0.79857	ENSG00000134317
-0.83649	0.79856	ENSG00000173585
-0.83632	0.79851	ENSG00000167543
0.83629	0.2015	ENSG00000073712
0.83595	0.20159	ENSG00000103184
-0.83581	0.79837	ENSG00000164458
-0.83571	0.79834	ENSG00000180066
-0.83542	0.79826	ENSG00000150722
0.83539	0.20175	ENSG00000215704
0.83527	0.20178	ENSG00000169604
-0.83515	0.79818	ENSG00000205364
-0.8351	0.79817	ENSG00000124191
-0.83509	0.79817	ENSG00000110075
-0.83496	0.79813	ENSG00000110888
0.83479	0.20192	ENSG00000160991
0.83477	0.20192	ENSG00000106366
0.83471	0.20194	ENSG00000100804
0.83468	0.20195	ENSG00000005381
0.83467	0.20195	ENSG00000102531
-0.83465	0.79804	ENSG00000112294
-0.8345	0.798	ENSG00000197406
0.83442	0.20202	ENSG00000169957
0.83433	0.20205	ENSG00000140400

-0.8343	0.79795	ENSG00000165929
0.83422	0.20208	ENSG00000148735
-0.83417	0.79791	ENSG00000270800
-0.83417	0.79791	ENSG00000130589
0.83417	0.20209	ENSG00000150361
-0.83406	0.79788	ENSG00000108106
-0.83404	0.79787	ENSG00000089639
0.83398	0.20215	ENSG00000129696
0.83375	0.20221	ENSG00000134291
-0.83365	0.79776	ENSG00000220575
-0.83361	0.79775	ENSG00000169777
0.83358	0.20226	ENSG00000151023
-0.83345	0.7977	ENSG00000273274
-0.83339	0.79769	ENSG00000101222
0.83319	0.20237	ENSG00000118007
-0.83298	0.79757	ENSG00000100307
-0.83292	0.79756	ENSG00000001629
0.83285	0.20246	ENSG00000140057
0.83277	0.20249	ENSG00000169752
0.83262	0.20253	ENSG00000214518
0.83258	0.20254	ENSG00000180537
0.83256	0.20255	ENSG00000181789
0.83238	0.2026	ENSG00000054654
0.83232	0.20261	ENSG00000151418
-0.83229	0.79738	ENSG00000166128
0.83229	0.20262	ENSG00000124205
0.83218	0.20265	ENSG00000118985
0.83212	0.20267	ENSG00000151690
0.83212	0.20267	ENSG00000165507
-0.83189	0.79727	ENSG00000171792
0.83177	0.20277	ENSG00000176986
0.83149	0.20285	ENSG00000162676
0.83093	0.20301	ENSG00000103876
-0.83091	0.79699	ENSG00000187676
-0.83067	0.79692	ENSG00000055732
-0.83049	0.79687	ENSG00000111701
-0.83038	0.79684	ENSG00000005812
0.83014	0.20323	ENSG00000196248
0.82985	0.20331	ENSG00000148057
0.82981	0.20332	ENSG00000130487
-0.8297	0.79664	ENSG00000172572
-0.82942	0.79657	ENSG00000160392
0.82937	0.20345	ENSG00000197891
0.8291	0.20352	ENSG00000185345
0.82899	0.20355	ENSG00000169499
-0.82887	0.79641	ENSG00000182035
0.82878	0.20361	ENSG00000072832
0.82876	0.20362	ENSG00000183873
-0.82844	0.79629	ENSG00000141258
0.8281	0.20381	ENSG00000164096
0.82809	0.20381	ENSG00000135870

0.82803	0.20383	ENSG00000227500
0.828	0.20383	ENSG00000140015
0.82783	0.20388	ENSG00000137504
0.82777	0.2039	ENSG00000118564
-0.82767	0.79607	ENSG00000113716
0.82764	0.20394	ENSG00000163214
-0.82754	0.79603	ENSG00000156831
-0.82754	0.79603	ENSG00000169840
-0.8274	0.79599	ENSG00000125508
0.82738	0.20401	ENSG00000123810
-0.82727	0.79596	ENSG00000179088
0.82721	0.20406	ENSG00000167419
-0.82703	0.79589	ENSG00000123171
-0.82703	0.79589	ENSG00000075461
-0.82701	0.79588	ENSG00000103174
-0.82693	0.79586	ENSG00000129484
-0.82671	0.7958	ENSG00000212864
-0.82669	0.79579	ENSG00000123473
-0.82659	0.79576	ENSG00000159685
0.82659	0.20423	ENSG00000089250
-0.82651	0.79574	ENSG00000151240
0.82649	0.20426	ENSG00000157933
0.82649	0.20426	ENSG00000172380
-0.82648	0.79573	ENSG00000156345
0.82635	0.2043	ENSG00000177990
-0.82632	0.79569	ENSG00000176798
-0.82632	0.79569	ENSG00000154734
0.82631	0.20431	ENSG00000140025
0.8262	0.20434	ENSG00000149054
-0.82615	0.79564	ENSG00000171467
0.82608	0.20438	ENSG00000166224
0.82605	0.20439	ENSG00000168828
0.82603	0.20439	ENSG00000170128
-0.82601	0.7956	ENSG00000224389
-0.82599	0.79559	ENSG00000226979
-0.82577	0.79553	ENSG00000204387
-0.82536	0.79542	ENSG00000203722
-0.82516	0.79536	ENSG00000071246
0.82495	0.2047	ENSG00000119640
0.82491	0.20471	ENSG00000162222
0.8248	0.20474	ENSG00000205835
-0.82479	0.79525	ENSG00000236287
-0.82479	0.79525	ENSG00000129353
-0.82467	0.79522	ENSG00000197502
-0.82457	0.79519	ENSG00000070371
-0.82447	0.79516	ENSG00000134030
-0.82444	0.79516	ENSG00000112531
-0.82438	0.79514	ENSG00000144959
0.82437	0.20486	ENSG00000223874
0.82424	0.2049	ENSG00000135823
-0.82422	0.79509	ENSG00000005238

-0.82422	0.79509	ENSG00000135127
0.82397	0.20498	ENSG00000139352
0.8239	0.205	ENSG00000221859
-0.82388	0.795	ENSG00000134245
-0.82375	0.79496	ENSG00000100055
0.82375	0.20504	ENSG00000165025
0.82372	0.20505	ENSG00000105352
0.8235	0.20511	ENSG00000213722
-0.82343	0.79487	ENSG00000178038
0.82337	0.20515	ENSG00000220205
0.82329	0.20517	ENSG00000152784
0.82328	0.20517	ENSG00000134504
-0.82295	0.79473	ENSG00000106246
-0.82271	0.79466	ENSG00000185305
0.82266	0.20535	ENSG00000100523
-0.82251	0.79461	ENSG00000106341
0.82241	0.20542	ENSG00000179580
0.8223	0.20545	ENSG00000070669
0.82214	0.2055	ENSG00000120242
-0.8221	0.79449	ENSG00000108518
0.82166	0.20563	ENSG00000164442
0.82158	0.20566	ENSG00000136527
-0.82155	0.79433	ENSG00000111669
0.82149	0.20568	ENSG00000186834
-0.82142	0.7943	ENSG00000106479
0.82131	0.20574	ENSG00000105662
-0.82112	0.79421	ENSG00000060558
-0.82105	0.79419	ENSG00000272047
0.82057	0.20595	ENSG00000159905
-0.82054	0.79405	ENSG00000168412
-0.8205	0.79403	ENSG00000169981
-0.82046	0.79402	ENSG00000113384
-0.82039	0.794	ENSG00000035499
0.82031	0.20602	ENSG00000196131
0.82028	0.20603	ENSG00000204700
-0.82014	0.79393	ENSG00000205495
0.82007	0.20609	ENSG00000197780
-0.82003	0.7939	ENSG00000172425
0.82	0.20611	ENSG00000262660
-0.81995	0.79388	ENSG00000101361
0.8199	0.20614	ENSG00000136888
-0.81973	0.79381	ENSG00000184916
-0.81972	0.79381	ENSG00000188277
-0.81949	0.79375	ENSG00000162482
-0.81927	0.79368	ENSG00000138078
-0.81911	0.79364	ENSG00000131370
-0.81909	0.79363	ENSG00000085840
-0.81898	0.7936	ENSG00000172236
-0.81894	0.79359	ENSG00000115263
-0.81868	0.79352	ENSG00000115267
-0.81861	0.7935	ENSG00000185278

0.81849	0.20654	ENSG00000140525
-0.81848	0.79346	ENSG00000119686
-0.8184	0.79344	ENSG00000228672
-0.8184	0.79344	ENSG00000070501
0.81831	0.20659	ENSG00000113600
0.81821	0.20662	ENSG00000185361
0.81819	0.20662	ENSG00000135052
-0.81818	0.79337	ENSG00000103507
-0.81811	0.79335	ENSG00000183570
0.81799	0.20668	ENSG00000153933
0.81797	0.20669	ENSG00000114455
0.81793	0.2067	ENSG00000184702
0.81793	0.2067	ENSG00000203618
-0.8179	0.79329	ENSG00000186204
0.81783	0.20673	ENSG00000157315
-0.81771	0.79324	ENSG00000125977
-0.81755	0.79319	ENSG00000148773
-0.81751	0.79318	ENSG00000152213
-0.81748	0.79317	ENSG00000116750
0.81746	0.20683	ENSG00000226397
0.81737	0.20686	ENSG00000142186
-0.81735	0.79314	ENSG00000148331
0.8173	0.20688	ENSG00000178257
-0.81725	0.79311	ENSG00000125818
-0.81719	0.79309	ENSG00000197604
0.81719	0.20691	ENSG00000156172
-0.8171	0.79306	ENSG00000160679
-0.81707	0.79306	ENSG00000268744
-0.81701	0.79304	ENSG00000167785
0.81694	0.20698	ENSG00000188803
-0.81693	0.79302	ENSG00000102595
0.81693	0.20698	ENSG00000196187
-0.81658	0.79292	ENSG00000128519
0.81654	0.2071	ENSG00000111335
-0.81642	0.79287	ENSG00000100365
-0.81627	0.79283	ENSG00000154889
0.81611	0.20722	ENSG00000180263
-0.81609	0.79278	ENSG00000075429
0.81605	0.20723	ENSG00000040275
-0.81603	0.79276	ENSG00000162367
0.81603	0.20724	ENSG00000158882
0.81594	0.20727	ENSG00000186185
-0.81571	0.79267	ENSG00000078674
-0.81565	0.79265	ENSG00000148300
0.81549	0.20739	ENSG00000145375
0.81542	0.20742	ENSG00000159167
0.81532	0.20744	ENSG00000164199
0.8153	0.20745	ENSG00000169429
-0.81527	0.79254	ENSG00000117152
0.81502	0.20753	ENSG00000176925
0.81484	0.20758	ENSG00000006125

0.81464	0.20764	ENSG00000151364
0.81461	0.20765	ENSG00000171017
-0.81442	0.7923	ENSG00000129744
-0.81442	0.7923	ENSG00000158792
0.81442	0.2077	ENSG00000129455
0.81439	0.20771	ENSG00000122550
-0.81425	0.79225	ENSG00000101413
0.81424	0.20775	ENSG00000159753
-0.81411	0.79221	ENSG00000108255
-0.81402	0.79218	ENSG00000187630
0.81398	0.20783	ENSG00000137409
-0.81387	0.79214	ENSG00000186141
0.81377	0.20789	ENSG00000124827
0.81372	0.2079	ENSG00000176783
0.81372	0.2079	ENSG00000189227
0.81367	0.20792	ENSG00000151779
0.81352	0.20796	ENSG00000259649
0.81346	0.20798	ENSG00000213366
-0.8134	0.79201	ENSG00000263812
0.81318	0.20806	ENSG00000205138
-0.81313	0.79193	ENSG00000177238
0.81307	0.20809	ENSG00000184012
-0.81303	0.7919	ENSG00000185813
-0.81281	0.79184	ENSG00000204469
0.81265	0.20821	ENSG00000273049
0.81238	0.20829	ENSG00000126091
0.81232	0.2083	ENSG00000174469
0.81232	0.2083	ENSG00000222012
-0.81225	0.79168	ENSG00000162729
0.81218	0.20834	ENSG00000164970
-0.8121	0.79163	ENSG00000166326
0.81195	0.20841	ENSG00000186638
-0.8119	0.79158	ENSG00000258818
-0.81168	0.79151	ENSG00000198670
0.81167	0.20849	ENSG00000214046
-0.81161	0.79149	ENSG00000119042
0.81161	0.20851	ENSG00000065675
-0.81157	0.79148	ENSG00000167613
0.81156	0.20852	ENSG00000183520
-0.81146	0.79145	ENSG00000196284
0.81141	0.20856	ENSG00000186086
-0.8112	0.79137	ENSG00000236939
-0.81118	0.79137	ENSG00000133858
-0.81107	0.79134	ENSG00000177879
-0.81107	0.79134	ENSG00000197261
-0.81098	0.79131	ENSG00000169885
-0.81083	0.79127	ENSG00000158467
0.81077	0.20875	ENSG00000181355
-0.81076	0.79125	ENSG00000167359
-0.81068	0.79122	ENSG00000135845
0.8106	0.2088	ENSG00000159871

0.81058	0.2088	ENSG00000172315
-0.81048	0.79117	ENSG00000125863
-0.81036	0.79113	ENSG00000076641
-0.81027	0.79111	ENSG00000132122
0.80978	0.20903	ENSG00000112200
0.80976	0.20904	ENSG00000116954
-0.80958	0.79091	ENSG00000102580
-0.80948	0.79088	ENSG00000099331
-0.80946	0.79088	ENSG00000101336
0.80938	0.20915	ENSG00000158042
0.80931	0.20917	ENSG00000064787
0.80925	0.20919	ENSG00000118263
0.80903	0.20925	ENSG00000138050
-0.80882	0.79069	ENSG00000163362
-0.80875	0.79067	ENSG00000178498
0.80872	0.20934	ENSG00000162430
0.80811	0.20951	ENSG00000108591
-0.80808	0.79048	ENSG00000154518
0.80807	0.20952	ENSG00000146555
0.80807	0.20953	ENSG00000149503
0.80792	0.20957	ENSG00000203907
-0.80773	0.79038	ENSG00000169288
-0.80769	0.79036	ENSG00000170561
-0.80766	0.79036	ENSG00000213967
-0.80765	0.79035	ENSG00000101596
-0.80751	0.79031	ENSG00000081985
-0.80746	0.7903	ENSG00000149806
0.80716	0.20979	ENSG00000185038
-0.80714	0.79021	ENSG00000272297
0.80714	0.20979	ENSG00000267001
-0.80685	0.79012	ENSG00000038295
-0.80666	0.79007	ENSG00000188266
0.80666	0.20993	ENSG00000173120
0.80664	0.20994	ENSG00000176845
-0.80648	0.79002	ENSG00000122507
-0.80638	0.78999	ENSG00000132424
-0.80609	0.7899	ENSG00000204220
-0.80602	0.78988	ENSG00000091164
0.80598	0.21013	ENSG00000112667
0.80596	0.21013	ENSG00000173976
-0.80594	0.78986	ENSG00000148296
0.80594	0.21014	ENSG00000187239
0.80579	0.21018	ENSG00000136141
0.80577	0.21019	ENSG00000136274
-0.80571	0.78979	ENSG00000178741
0.80555	0.21025	ENSG00000272741
0.80551	0.21026	ENSG00000108883
0.80549	0.21027	ENSG00000172638
-0.80548	0.78973	ENSG00000266953
0.80546	0.21028	ENSG00000213625
-0.80523	0.78966	ENSG00000176105

-0.80508	0.78961	ENSG00000141750
-0.80499	0.78959	ENSG00000188032
0.80499	0.21041	ENSG00000117154
0.80499	0.21041	ENSG00000257218
-0.80495	0.78958	ENSG00000186577
0.80477	0.21048	ENSG00000188603
-0.80465	0.78949	ENSG00000188886
0.80448	0.21056	ENSG00000079257
0.80448	0.21056	ENSG00000164924
0.80443	0.21057	ENSG00000101680
-0.80434	0.7894	ENSG00000268046
-0.80426	0.78938	ENSG00000135424
-0.80397	0.78929	ENSG00000034971
-0.80394	0.78928	ENSG00000196405
0.80378	0.21076	ENSG00000139926
0.80377	0.21076	ENSG00000198715
0.8037	0.21079	ENSG00000183914
0.80347	0.21085	ENSG00000137193
0.80343	0.21086	ENSG00000166118
0.80341	0.21087	ENSG00000145088
0.80334	0.21089	ENSG00000135269
0.80327	0.21091	ENSG00000188162
-0.80311	0.78905	ENSG00000197122
0.80284	0.21103	ENSG00000198380
0.80279	0.21105	ENSG00000091073
0.80266	0.21109	ENSG00000213171
0.80261	0.2111	ENSG00000147408
0.8025	0.21113	ENSG00000171773
0.80248	0.21114	ENSG00000018408
0.80195	0.21129	ENSG00000118762
-0.80182	0.78867	ENSG00000166800
0.80182	0.21133	ENSG00000184925
-0.80173	0.78865	ENSG00000170248
-0.80163	0.78862	ENSG00000117601
-0.80158	0.7886	ENSG00000135469
-0.80157	0.7886	ENSG00000100439
-0.80156	0.7886	ENSG00000213316
-0.8015	0.78858	ENSG00000152910
0.8015	0.21142	ENSG00000154646
0.80149	0.21143	ENSG00000130939
0.80132	0.21147	ENSG00000167972
0.80129	0.21148	ENSG00000144426
-0.80123	0.7885	ENSG00000250424
0.80123	0.2115	ENSG00000180090
0.80113	0.21153	ENSG00000162772
0.80102	0.21156	ENSG00000101384
0.8008	0.21162	ENSG00000118804
-0.80077	0.78837	ENSG00000227057
-0.80067	0.78834	ENSG00000215114
-0.80046	0.78828	ENSG00000178694
0.80035	0.21175	ENSG00000006047

-0.80034	0.78824	ENSG00000124120
-0.80031	0.78823	ENSG00000156689
0.80029	0.21177	ENSG00000185236
-0.80027	0.78822	ENSG00000108671
-0.80023	0.78821	ENSG00000126353
0.80015	0.21181	ENSG00000160360
0.80011	0.21182	ENSG00000167619
-0.79991	0.78812	ENSG00000166171
-0.79987	0.78811	ENSG00000196367
0.79984	0.2119	ENSG00000129636
0.79983	0.2119	ENSG00000164307
-0.79976	0.78808	ENSG00000134644
0.79976	0.21193	ENSG00000152580
0.79975	0.21193	ENSG00000177191
-0.79965	0.78804	ENSG00000124614
-0.79962	0.78804	ENSG00000113196
-0.79959	0.78803	ENSG00000108829
0.79959	0.21197	ENSG00000164283
0.79959	0.21198	ENSG00000172667
0.79953	0.21199	ENSG00000132467
0.79947	0.21201	ENSG00000136560
0.79946	0.21201	ENSG00000130558
0.79911	0.21211	ENSG00000143851
0.79909	0.21212	ENSG00000132612
0.79908	0.21212	ENSG00000167646
-0.79904	0.78787	ENSG00000149633
0.79899	0.21215	ENSG00000184226
0.79891	0.21217	ENSG00000074219
-0.7989	0.78783	ENSG00000157426
0.79887	0.21218	ENSG00000255398
-0.79857	0.78773	ENSG00000133105
0.79855	0.21228	ENSG00000206531
0.79853	0.21228	ENSG00000125872
-0.79847	0.7877	ENSG00000175544
-0.79843	0.78769	ENSG00000244617
-0.79823	0.78763	ENSG00000149507
0.79801	0.21243	ENSG00000063515
-0.79798	0.78756	ENSG00000034053
0.79786	0.21247	ENSG00000120457
-0.79785	0.78752	ENSG00000131386
0.79775	0.21251	ENSG00000272414
0.79775	0.21251	ENSG00000181143
0.79772	0.21252	ENSG00000163374
0.7977	0.21252	ENSG00000070748
-0.79768	0.78747	ENSG00000206181
-0.79756	0.78744	ENSG00000198915
-0.79756	0.78744	ENSG00000133980
-0.79745	0.7874	ENSG00000163516
0.79735	0.21262	ENSG00000196116
0.79705	0.21271	ENSG00000181513
-0.79696	0.78726	ENSG00000106105

-0.79692	0.78725	ENSG00000149489
0.79679	0.21279	ENSG00000147481
0.79668	0.21282	ENSG00000165304
0.79667	0.21282	ENSG00000153132
0.79663	0.21283	ENSG00000145734
-0.79662	0.78716	ENSG00000163501
0.7964	0.2129	ENSG00000153066
0.79633	0.21292	ENSG00000101188
-0.79615	0.78703	ENSG00000148803
0.79611	0.21298	ENSG00000241553
-0.79601	0.78699	ENSG00000150628
0.79586	0.21306	ENSG00000177595
0.79585	0.21306	ENSG00000172172
0.79579	0.21308	ENSG00000241241
0.79566	0.21312	ENSG00000144057
0.79548	0.21317	ENSG00000104783
-0.79542	0.78682	ENSG00000153187
0.79539	0.21319	ENSG00000185442
-0.79536	0.7868	ENSG00000129515
0.79526	0.21323	ENSG00000121454
0.79512	0.21327	ENSG00000105281
-0.79511	0.78672	ENSG00000080608
-0.79501	0.7867	ENSG00000101400
-0.79494	0.78667	ENSG00000232859
0.79491	0.21333	ENSG00000150625
0.7949	0.21333	ENSG00000172000
-0.79479	0.78663	ENSG00000147669
0.79474	0.21338	ENSG00000188958
0.79455	0.21344	ENSG00000112655
0.79448	0.21346	ENSG00000124490
0.79446	0.21346	ENSG00000116288
0.79437	0.21349	ENSG00000131495
0.79432	0.21351	ENSG00000182271
-0.7942	0.78646	ENSG00000184635
-0.79419	0.78646	ENSG00000105982
-0.79419	0.78646	ENSG00000197969
-0.79416	0.78645	ENSG00000087995
0.79408	0.21357	ENSG00000127081
-0.79389	0.78637	ENSG00000007384
0.79385	0.21364	ENSG00000213057
-0.79376	0.78633	ENSG00000142937
-0.79375	0.78633	ENSG00000147813
-0.7937	0.78632	ENSG00000074696
0.79369	0.21369	ENSG00000141076
0.79367	0.21369	ENSG00000183813
-0.79361	0.78629	ENSG00000214367
0.79359	0.21372	ENSG00000197697
0.79358	0.21372	ENSG00000108961
0.79354	0.21373	ENSG00000109466
0.79351	0.21374	ENSG00000184602
0.79342	0.21377	ENSG00000186716

-0.79327	0.78619	ENSG00000132801
0.79322	0.21383	ENSG00000183549
0.79316	0.21384	ENSG00000260170
0.79314	0.21385	ENSG00000204913
-0.79313	0.78615	ENSG00000117597
-0.79312	0.78615	ENSG00000180354
0.79308	0.21387	ENSG00000196358
-0.79295	0.7861	ENSG00000176907
0.79283	0.21394	ENSG00000153234
-0.79271	0.78603	ENSG00000140538
0.79271	0.21397	ENSG00000051108
0.79262	0.214	ENSG00000166226
0.7926	0.21401	ENSG00000124164
0.79258	0.21401	ENSG00000127334
0.79256	0.21402	ENSG00000144233
-0.7925	0.78596	ENSG00000167118
0.7925	0.21403	ENSG00000185340
-0.79229	0.7859	ENSG00000108826
0.79227	0.2141	ENSG00000166220
0.79227	0.2141	ENSG00000004700
0.79215	0.21414	ENSG00000171824
-0.79197	0.78581	ENSG00000179873
0.79193	0.2142	ENSG00000121075
-0.79178	0.78576	ENSG00000071794
-0.7917	0.78573	ENSG00000187987
0.79141	0.21435	ENSG00000257138
-0.79134	0.78563	ENSG00000062485
-0.7913	0.78561	ENSG00000181803
0.79109	0.21445	ENSG00000162399
0.79103	0.21446	ENSG00000107014
0.79082	0.21452	ENSG00000204572
-0.79078	0.78546	ENSG00000089041
-0.79063	0.78542	ENSG00000125861
0.79054	0.21461	ENSG00000081913
0.79053	0.21461	ENSG00000168827
0.79046	0.21463	ENSG00000198018
-0.79038	0.78535	ENSG00000121671
0.79023	0.2147	ENSG00000185101
-0.79004	0.78525	ENSG00000182968
-0.79004	0.78525	ENSG00000125845
0.78997	0.21477	ENSG00000163900
-0.7897	0.78515	ENSG00000182141
0.78942	0.21493	ENSG00000180481
-0.78914	0.78499	ENSG00000161847
0.78914	0.21502	ENSG00000178722
0.78913	0.21502	ENSG00000149782
-0.78897	0.78494	ENSG00000104371
0.78881	0.21511	ENSG00000178201
0.78878	0.21512	ENSG00000161904
0.78869	0.21515	ENSG00000023608
-0.78848	0.78479	ENSG00000214688

0.78838	0.21524	ENSG00000178776
0.78798	0.21535	ENSG00000248235
0.78784	0.2154	ENSG00000083093
0.78779	0.21541	ENSG00000167194
-0.78749	0.7845	ENSG00000100601
0.78719	0.21558	ENSG00000177873
0.78719	0.21558	ENSG00000168062
0.78701	0.21564	ENSG00000182187
-0.78693	0.78434	ENSG00000186364
0.7869	0.21567	ENSG00000184144
-0.78649	0.78421	ENSG00000061938
-0.78628	0.78415	ENSG00000213214
-0.78618	0.78412	ENSG00000142178
-0.78613	0.78411	ENSG00000001631
0.78612	0.2159	ENSG00000260001
0.78604	0.21592	ENSG00000164076
-0.78589	0.78403	ENSG00000175895
-0.78583	0.78402	ENSG00000215014
0.78577	0.216	ENSG00000105700
0.78567	0.21603	ENSG00000260371
0.78546	0.21609	ENSG00000180532
-0.78543	0.7839	ENSG00000102870
0.78538	0.21611	ENSG00000140365
-0.78532	0.78387	ENSG00000171813
-0.78519	0.78383	ENSG00000149089
0.78517	0.21618	ENSG00000123384
-0.78501	0.78378	ENSG00000154274
-0.78492	0.78375	ENSG00000106554
0.78483	0.21628	ENSG00000137103
-0.78479	0.78371	ENSG00000142513
0.78468	0.21632	ENSG00000139826
-0.78466	0.78367	ENSG00000105717
-0.78464	0.78367	ENSG00000261833
-0.7846	0.78366	ENSG00000077092
-0.78453	0.78364	ENSG00000217442
0.78451	0.21637	ENSG00000239382
-0.7845	0.78363	ENSG00000134470
0.7845	0.21637	ENSG00000163485
0.78424	0.21645	ENSG00000076382
0.78388	0.21656	ENSG00000132109
0.7838	0.21658	ENSG00000176623
-0.78374	0.7834	ENSG00000254445
-0.78373	0.7834	ENSG00000250741
-0.78373	0.7834	ENSG00000185013
-0.78372	0.7834	ENSG00000100811
-0.7837	0.78339	ENSG00000116157
-0.78356	0.78335	ENSG00000077454
0.78335	0.21671	ENSG00000146007
0.78315	0.21677	ENSG00000152457
0.7831	0.21678	ENSG00000074266
-0.78304	0.7832	ENSG00000168259

0.78304	0.2168	ENSG00000053524
-0.783	0.78319	ENSG00000137261
-0.78294	0.78317	ENSG00000143612
0.78274	0.21689	ENSG00000254004
0.78268	0.21691	ENSG00000188566
0.78264	0.21692	ENSG00000152315
0.78262	0.21692	ENSG00000142530
0.78258	0.21694	ENSG00000175170
-0.78254	0.78305	ENSG00000145780
0.78253	0.21695	ENSG00000131153
0.78247	0.21697	ENSG00000183826
0.78244	0.21698	ENSG00000205927
-0.78239	0.78301	ENSG00000150760
-0.78219	0.78295	ENSG00000153266
0.78176	0.21718	ENSG00000161570
-0.78175	0.78282	ENSG00000042493
0.78144	0.21727	ENSG00000154957
-0.78123	0.78267	ENSG00000164746
0.78095	0.21742	ENSG00000134897
0.78055	0.21753	ENSG00000141522
0.7805	0.21755	ENSG00000179636
-0.78039	0.78242	ENSG00000175595
0.78026	0.21762	ENSG00000158315
0.78025	0.21762	ENSG00000171492
-0.78023	0.78237	ENSG00000117153
0.78017	0.21765	ENSG00000171617
0.78011	0.21766	ENSG00000056586
-0.7801	0.78233	ENSG00000063322
0.78001	0.21769	ENSG00000162373
-0.77992	0.78228	ENSG00000160339
0.77989	0.21773	ENSG00000267881
0.77985	0.21774	ENSG00000105954
0.7798	0.21775	ENSG00000160767
-0.77965	0.7822	ENSG00000206199
-0.77964	0.7822	ENSG00000164403
0.77964	0.2178	ENSG00000232838
-0.77957	0.78218	ENSG00000151348
-0.77955	0.78217	ENSG00000267795
0.77939	0.21787	ENSG00000178538
-0.77928	0.78209	ENSG00000142279
0.77926	0.21791	ENSG00000103653
0.77914	0.21795	ENSG00000170160
0.77914	0.21795	ENSG00000266302
-0.77908	0.78203	ENSG00000182674
0.779	0.21799	ENSG00000111348
-0.77893	0.78199	ENSG00000099949
0.7788	0.21805	ENSG00000112425
-0.77874	0.78193	ENSG00000131044
0.77863	0.2181	ENSG00000165124
-0.77848	0.78186	ENSG00000203814
-0.77846	0.78185	ENSG00000172548

0.77836	0.21818	ENSG00000185252
0.77817	0.21823	ENSG00000148384
-0.77811	0.78175	ENSG00000182667
-0.77808	0.78174	ENSG00000150627
-0.77808	0.78174	ENSG00000125841
0.77771	0.21837	ENSG00000203837
-0.77768	0.78162	ENSG00000183186
0.77734	0.21848	ENSG00000198758
0.77714	0.21854	ENSG00000112208
-0.77705	0.78143	ENSG00000254873
0.77694	0.2186	ENSG00000144962
-0.77686	0.78138	ENSG00000181609
-0.77684	0.78137	ENSG00000168159
0.77676	0.21865	ENSG00000254598
0.77657	0.21871	ENSG00000227059
0.77646	0.21874	ENSG00000187372
-0.77642	0.78125	ENSG00000197712
-0.77625	0.7812	ENSG00000173041
0.77621	0.21881	ENSG00000176387
-0.77617	0.78118	ENSG00000197734
-0.77601	0.78113	ENSG00000027644
0.77589	0.21891	ENSG00000106853
-0.77588	0.78109	ENSG00000152592
0.77584	0.21892	ENSG00000172789
-0.77579	0.78106	ENSG00000137033
-0.77576	0.78105	ENSG00000133742
0.77571	0.21896	ENSG00000163945
-0.7756	0.78101	ENSG00000132005
0.77558	0.219	ENSG00000105939
-0.77555	0.78099	ENSG00000255537
-0.77542	0.78095	ENSG00000068745
0.77527	0.21909	ENSG00000182256
0.77525	0.2191	ENSG00000170323
0.77524	0.2191	ENSG00000178184
0.77502	0.21916	ENSG00000065621
-0.77495	0.78082	ENSG00000144395
0.77488	0.2192	ENSG00000107745
0.77479	0.21923	ENSG00000130699
-0.77475	0.78076	ENSG00000159495
0.77475	0.21924	ENSG00000146197
0.77475	0.21924	ENSG00000160844
-0.77445	0.78067	ENSG00000054938
0.77418	0.21941	ENSG00000139800
-0.77413	0.78057	ENSG00000096746
0.77409	0.21944	ENSG00000128815
0.77407	0.21945	ENSG00000196470
-0.77405	0.78055	ENSG00000171119
0.774	0.21947	ENSG00000027847
0.77368	0.21956	ENSG00000149925
0.77367	0.21956	ENSG00000181273
0.77366	0.21956	ENSG00000158122

0.77365	0.21957	ENSG00000183751
-0.77362	0.78042	ENSG00000163959
-0.77361	0.78042	ENSG00000230989
-0.77356	0.78041	ENSG00000003249
-0.77352	0.78039	ENSG00000135097
0.77344	0.21963	ENSG00000041802
0.77339	0.21965	ENSG00000163257
0.77334	0.21966	ENSG00000172270
0.77317	0.21971	ENSG00000109927
-0.77314	0.78028	ENSG00000122641
-0.7731	0.78027	ENSG00000078237
-0.77305	0.78025	ENSG00000116786
0.77299	0.21977	ENSG00000270033
0.77291	0.21979	ENSG00000180974
-0.77287	0.7802	ENSG00000172324
0.77281	0.21982	ENSG00000184009
0.77276	0.21983	ENSG00000163110
0.7727	0.21985	ENSG00000064199
0.77259	0.21988	ENSG00000103196
0.77255	0.21989	ENSG00000122566
0.77235	0.21995	ENSG00000105963
0.77213	0.22002	ENSG00000176732
-0.7721	0.77997	ENSG00000099977
0.77206	0.22004	ENSG00000166233
0.77203	0.22005	ENSG00000050344
0.77188	0.22009	ENSG00000128298
0.77183	0.22011	ENSG00000140983
-0.77169	0.77985	ENSG00000152527
-0.77154	0.77981	ENSG00000105219
0.77135	0.22025	ENSG00000158480
-0.77132	0.77974	ENSG00000150756
-0.77125	0.77972	ENSG00000125285
0.77125	0.22028	ENSG00000135549
0.77118	0.2203	ENSG00000176230
-0.77085	0.7796	ENSG00000113811
0.77081	0.22041	ENSG00000188038
0.77079	0.22042	ENSG00000118454
0.77064	0.22046	ENSG00000213465
-0.77063	0.77954	ENSG00000158402
0.77061	0.22047	ENSG00000064726
0.77054	0.22049	ENSG00000243725
0.77052	0.2205	ENSG00000175893
-0.77029	0.77943	ENSG00000197841
-0.77029	0.77944	ENSG00000188739
-0.77008	0.77937	ENSG00000085831
0.77008	0.22062	ENSG00000103197
0.77007	0.22063	ENSG00000158955
-0.77004	0.77936	ENSG00000110711
0.76992	0.22067	ENSG00000108702
-0.76986	0.77931	ENSG00000188404
0.76952	0.22079	ENSG00000122952

-0.76934	0.77916	ENSG00000249437
0.76908	0.22092	ENSG00000117984
0.76893	0.22097	ENSG00000131095
-0.76879	0.77899	ENSG00000173898
-0.76868	0.77896	ENSG00000029559
0.76859	0.22107	ENSG00000169926
-0.76857	0.77892	ENSG00000176399
0.76846	0.22111	ENSG00000217930
0.76831	0.22115	ENSG00000118894
-0.76814	0.7788	ENSG00000167740
0.7681	0.22122	ENSG00000173320
-0.76797	0.77875	ENSG00000204060
0.76797	0.22125	ENSG00000145703
-0.76792	0.77873	ENSG00000183780
0.76767	0.22134	ENSG00000258941
0.7676	0.22136	ENSG00000134864
-0.76734	0.77856	ENSG00000180785
0.7673	0.22145	ENSG00000114853
0.76729	0.22145	ENSG00000163348
0.767	0.22154	ENSG00000114113
-0.76694	0.77844	ENSG00000090339
-0.76674	0.77838	ENSG00000168237
-0.76664	0.77835	ENSG00000198398
0.76664	0.22165	ENSG00000169598
0.76658	0.22167	ENSG00000198912
0.76644	0.22171	ENSG00000163219
0.76641	0.22172	ENSG00000196428
-0.76639	0.77828	ENSG00000196859
0.76623	0.22177	ENSG00000197323
0.7661	0.22181	ENSG00000198271
0.76606	0.22182	ENSG00000121578
-0.76598	0.77815	ENSG00000155666
-0.76591	0.77814	ENSG00000100351
-0.76575	0.77809	ENSG00000220008
0.76551	0.22199	ENSG00000182557
0.7653	0.22205	ENSG00000158773
0.76529	0.22205	ENSG00000163131
0.76512	0.2221	ENSG00000269295
-0.76496	0.77785	ENSG00000269783
0.76493	0.22216	ENSG00000147570
-0.76488	0.77783	ENSG00000138613
0.76487	0.22217	ENSG00000118432
0.7648	0.2222	ENSG00000072121
0.76476	0.22221	ENSG00000163661
0.76474	0.22221	ENSG00000187553
0.76458	0.22226	ENSG00000234949
-0.76453	0.77773	ENSG00000059378
-0.76451	0.77772	ENSG00000165905
-0.7643	0.77766	ENSG00000181904
-0.76426	0.77764	ENSG00000145781
-0.76421	0.77763	ENSG00000166884

-0.76418	0.77762	ENSG00000156110
0.76414	0.22239	ENSG00000163785
-0.76406	0.77759	ENSG00000116237
0.76395	0.22245	ENSG00000158555
0.76365	0.22254	ENSG00000269920
0.76365	0.22254	ENSG00000188649
-0.76352	0.77742	ENSG00000183172
-0.76344	0.77774	ENSG00000139842
0.76311	0.2227	ENSG00000139574
0.76299	0.22273	ENSG00000263155
0.76297	0.22274	ENSG00000106410
0.76286	0.22277	ENSG00000165209
-0.76276	0.77772	ENSG00000115386
0.76242	0.2229	ENSG00000115318
-0.76226	0.77705	ENSG00000189060
0.76215	0.22299	ENSG00000112742
0.76208	0.22301	ENSG00000198853
0.76197	0.22304	ENSG00000137124
0.76182	0.22308	ENSG00000181778
-0.76171	0.77688	ENSG00000078043
-0.76162	0.77686	ENSG00000113838
0.76143	0.2232	ENSG00000196544
0.7614	0.22321	ENSG00000183715
0.76135	0.22322	ENSG00000119771
-0.76131	0.77676	ENSG00000005810
0.76125	0.22325	ENSG00000113492
0.76101	0.22333	ENSG00000113593
0.7606	0.22345	ENSG00000269190
-0.76058	0.77655	ENSG00000130649
-0.76053	0.77653	ENSG00000185792
-0.76048	0.77652	ENSG00000021574
0.76043	0.2235	ENSG00000147873
-0.7603	0.77646	ENSG00000166948
0.76015	0.22358	ENSG00000180257
-0.76009	0.7764	ENSG00000182749
0.76003	0.22362	ENSG00000055208
0.75999	0.22363	ENSG00000196876
-0.75986	0.77633	ENSG00000102934
-0.75977	0.7763	ENSG00000268500
-0.75975	0.7763	ENSG00000104331
-0.75966	0.77627	ENSG00000170419
0.75962	0.22374	ENSG00000026025
0.75956	0.22376	ENSG00000151617
0.75951	0.22377	ENSG00000108010
0.75949	0.22378	ENSG00000150787
0.75941	0.2238	ENSG00000197417
-0.75935	0.77618	ENSG00000259363
-0.75919	0.77613	ENSG00000114737
-0.75918	0.77613	ENSG00000187170
-0.75913	0.77611	ENSG00000157833
0.75878	0.22399	ENSG00000092439

0.75871	0.22401	ENSG00000032219
0.75854	0.22406	ENSG00000109205
0.75854	0.22406	ENSG00000167011
-0.75852	0.77593	ENSG00000005469
0.75849	0.22408	ENSG00000146205
-0.75846	0.77591	ENSG00000090621
-0.7584	0.77589	ENSG00000169174
-0.7583	0.77586	ENSG00000104969
-0.75815	0.77582	ENSG00000105538
0.7581	0.2242	ENSG00000107036
0.75805	0.22421	ENSG00000159409
0.75791	0.22425	ENSG00000058668
-0.75789	0.77574	ENSG00000269360
-0.75784	0.77573	ENSG00000170923
0.75782	0.22428	ENSG00000165566
-0.75762	0.77566	ENSG00000197629
0.75756	0.22436	ENSG00000166793
-0.75753	0.77563	ENSG00000104290
0.75751	0.22437	ENSG00000099337
0.75743	0.2244	ENSG00000253903
-0.75712	0.77551	ENSG00000155158
-0.75691	0.77545	ENSG00000157796
0.7568	0.22459	ENSG00000184470
0.75679	0.22459	ENSG00000204264
-0.75674	0.7754	ENSG00000197927
0.75672	0.22461	ENSG00000183508
-0.75665	0.77537	ENSG00000111684
-0.75658	0.77535	ENSG00000196411
-0.75653	0.77533	ENSG00000197771
-0.75653	0.77534	ENSG00000128654
-0.75623	0.77524	ENSG00000259171
0.75615	0.22478	ENSG00000104863
-0.75594	0.77516	ENSG00000176040
-0.75594	0.77516	ENSG00000108370
0.7559	0.22486	ENSG00000242802
-0.75586	0.77513	ENSG00000149418
0.7558	0.22488	ENSG00000159082
0.75565	0.22493	ENSG00000168894
0.75555	0.22496	ENSG00000154027
-0.75553	0.77504	ENSG00000109846
0.75553	0.22497	ENSG00000141622
-0.7555	0.77503	ENSG00000143228
0.7554	0.225	ENSG00000183048
-0.75537	0.77499	ENSG00000152779
0.75536	0.22502	ENSG00000213921
0.75529	0.22504	ENSG00000141456
0.75522	0.22506	ENSG00000079102
0.75505	0.22511	ENSG00000165997
-0.75493	0.77486	ENSG00000104142
-0.7549	0.77485	ENSG00000160193
0.75481	0.22518	ENSG00000229833

-0.7548	0.77482	ENSG00000203783
-0.75475	0.7748	ENSG00000118245
-0.75447	0.77472	ENSG00000112234
-0.75443	0.7747	ENSG00000125633
0.75442	0.2253	ENSG00000124578
-0.75439	0.77469	ENSG00000165935
0.7543	0.22534	ENSG00000086598
-0.75409	0.7746	ENSG00000128908
0.75408	0.2254	ENSG00000100246
-0.75405	0.77459	ENSG00000140463
-0.75381	0.77452	ENSG00000134755
-0.75331	0.77437	ENSG00000156170
0.75319	0.22567	ENSG00000124942
-0.75317	0.77433	ENSG00000178828
-0.753	0.77428	ENSG00000143226
0.75287	0.22576	ENSG00000135185
-0.75264	0.77417	ENSG00000144724
-0.75254	0.77414	ENSG00000261787
-0.75241	0.7741	ENSG00000106483
-0.7523	0.77407	ENSG00000174898
-0.75208	0.774	ENSG00000105227
0.75184	0.22607	ENSG00000151470
0.75161	0.22614	ENSG00000100105
-0.75157	0.77384	ENSG00000175604
0.75151	0.22617	ENSG00000214309
0.75143	0.2262	ENSG00000140521
0.75126	0.22625	ENSG00000111780
-0.75122	0.77374	ENSG00000141971
0.75118	0.22627	ENSG00000163430
-0.75115	0.77372	ENSG00000135476
0.75105	0.22631	ENSG00000139737
-0.75095	0.77366	ENSG00000185274
0.75086	0.22637	ENSG00000214787
-0.75075	0.7736	ENSG00000100078
0.75049	0.22648	ENSG00000125459
0.75046	0.22649	ENSG00000171189
0.75042	0.2265	ENSG00000167637
0.7503	0.22654	ENSG00000105705
-0.75024	0.77344	ENSG00000205030
-0.75013	0.77341	ENSG00000185621
-0.75	0.77337	ENSG00000187522
-0.74999	0.77337	ENSG00000102786
0.74994	0.22664	ENSG00000134222
0.74991	0.22665	ENSG00000164976
0.74963	0.22674	ENSG00000109208
0.74956	0.22676	ENSG00000134851
-0.74925	0.77315	ENSG00000182836
-0.74917	0.77312	ENSG00000116032
0.74905	0.22691	ENSG00000173110
0.74894	0.22695	ENSG00000102189
0.74859	0.22705	ENSG00000128310

0.74855	0.22706	ENSG00000135213
0.74854	0.22707	ENSG00000165323
0.74849	0.22708	ENSG00000128710
0.7484	0.22711	ENSG00000166105
0.7483	0.22714	ENSG00000131094
-0.74812	0.77281	ENSG00000108821
0.74805	0.22721	ENSG00000221874
-0.74789	0.77274	ENSG00000234444
0.74777	0.2273	ENSG00000172183
0.74761	0.22735	ENSG00000197647
-0.74755	0.77263	ENSG00000169896
-0.7475	0.77262	ENSG00000221819
-0.74748	0.77261	ENSG00000095585
-0.74746	0.77261	ENSG00000105618
-0.74743	0.7726	ENSG00000141543
0.74742	0.22741	ENSG00000189127
0.74741	0.22741	ENSG00000137312
-0.74731	0.77256	ENSG00000140264
0.74728	0.22745	ENSG00000115520
0.74715	0.22749	ENSG00000011007
0.74709	0.2275	ENSG00000212719
0.74698	0.22754	ENSG00000184302
0.7469	0.22756	ENSG00000090861
-0.74688	0.77243	ENSG00000111249
0.74682	0.22759	ENSG00000173905
-0.74678	0.7724	ENSG00000112981
-0.74661	0.77235	ENSG00000215910
0.74657	0.22766	ENSG00000175215
-0.74647	0.77231	ENSG00000156050
-0.74622	0.77223	ENSG00000179115
-0.7461	0.7722	ENSG00000143742
0.7461	0.2278	ENSG00000164919
0.74597	0.22784	ENSG00000162692
-0.74593	0.77214	ENSG00000141367
0.74591	0.22786	ENSG00000076513
0.74575	0.22791	ENSG00000163040
-0.74563	0.77205	ENSG00000011275
0.74552	0.22798	ENSG00000147457
-0.74535	0.77197	ENSG00000269095
0.74532	0.22804	ENSG00000143398
0.74532	0.22804	ENSG00000172244
0.74532	0.22804	ENSG00000072041
0.7452	0.22808	ENSG00000125871
-0.74504	0.77188	ENSG00000049245
0.74501	0.22813	ENSG00000007237
-0.74497	0.77185	ENSG00000179066
-0.74494	0.77184	ENSG00000120471
-0.74484	0.77182	ENSG00000185798
0.74479	0.2282	ENSG00000171722
0.74467	0.22824	ENSG00000134982
-0.74466	0.77176	ENSG00000104549

0.74435	0.22833	ENSG00000196220
0.7443	0.22835	ENSG00000177576
0.74391	0.22847	ENSG00000204920
0.74387	0.22848	ENSG00000158270
0.7438	0.2285	ENSG00000088766
0.74374	0.22852	ENSG00000164900
-0.74354	0.77142	ENSG00000130783
0.74335	0.22863	ENSG00000198060
-0.7433	0.77135	ENSG00000112273
0.7432	0.22868	ENSG00000126457
-0.74318	0.77131	ENSG00000164114
-0.74302	0.77127	ENSG00000120903
-0.74255	0.77112	ENSG00000105711
0.74253	0.22888	ENSG00000148411
0.74247	0.2289	ENSG00000257355
-0.74213	0.771	ENSG00000124177
-0.74201	0.77096	ENSG00000171954
0.7419	0.22908	ENSG00000232263
-0.74187	0.77092	ENSG00000139200
0.74182	0.2291	ENSG00000140104
-0.74175	0.77088	ENSG00000162877
-0.74121	0.77072	ENSG00000165181
-0.74114	0.77069	ENSG00000176978
-0.7409	0.77062	ENSG00000185198
0.74085	0.22939	ENSG00000125630
-0.74074	0.77057	ENSG00000162728
0.74069	0.22944	ENSG00000174840
-0.7406	0.77053	ENSG00000177721
0.74028	0.22957	ENSG00000130695
-0.74019	0.77041	ENSG00000170631
0.74	0.22965	ENSG00000144857
-0.73989	0.77032	ENSG00000099769
-0.73978	0.77028	ENSG00000142528
-0.73975	0.77027	ENSG00000103326
0.7397	0.22974	ENSG00000138615
-0.73968	0.77025	ENSG00000105501
-0.73967	0.77025	ENSG00000111540
0.73964	0.22976	ENSG00000168830
-0.73959	0.77022	ENSG00000105810
0.73945	0.22982	ENSG00000154099
-0.73941	0.77017	ENSG00000170439
-0.73937	0.77016	ENSG00000016402
0.73911	0.22992	ENSG00000047365
0.73909	0.22993	ENSG00000145949
0.73902	0.22995	ENSG00000141560
0.73886	0.23	ENSG00000066557
0.73879	0.23002	ENSG00000164972
-0.73871	0.76996	ENSG00000079931
-0.73869	0.76995	ENSG00000103647
0.73855	0.23009	ENSG00000178772
-0.73831	0.76984	ENSG00000174348

0.73828	0.23017	ENSG00000170525
0.73826	0.23018	ENSG00000160345
0.73821	0.23019	ENSG00000146707
0.73819	0.2302	ENSG00000186867
0.73816	0.23021	ENSG00000176485
0.73808	0.23023	ENSG00000158525
0.73787	0.2303	ENSG00000116824
0.73787	0.2303	ENSG00000158985
0.73787	0.2303	ENSG00000146242
-0.73782	0.76969	ENSG00000174652
-0.73779	0.76968	ENSG00000064989
-0.73779	0.76968	ENSG00000013573
0.7376	0.23038	ENSG00000104524
-0.73755	0.76961	ENSG00000185269
0.73754	0.2304	ENSG00000140332
0.73748	0.23042	ENSG00000159131
0.73742	0.23043	ENSG00000161265
0.73728	0.23048	ENSG00000118492
-0.73724	0.76951	ENSG00000139998
0.73707	0.23054	ENSG00000138131
0.73689	0.23059	ENSG00000149488
-0.73686	0.7694	ENSG00000139746
0.73675	0.23064	ENSG00000183145
-0.73672	0.76935	ENSG00000067596
0.73646	0.23072	ENSG00000175106
0.73643	0.23073	ENSG00000259024
0.73639	0.23075	ENSG00000165272
-0.73632	0.76923	ENSG00000164663
0.7363	0.23077	ENSG00000116663
-0.73617	0.76919	ENSG00000157087
-0.73615	0.76918	ENSG00000272325
-0.73593	0.76911	ENSG00000179922
-0.73581	0.76908	ENSG00000184040
-0.73572	0.76905	ENSG00000170442
0.73489	0.2312	ENSG00000105877
0.73486	0.23121	ENSG00000103544
-0.73479	0.76877	ENSG00000267314
-0.73476	0.76876	ENSG00000139155
0.73468	0.23127	ENSG00000100767
-0.73467	0.76873	ENSG00000187775
0.73464	0.23128	ENSG00000169340
-0.73456	0.7687	ENSG00000120697
-0.73455	0.76869	ENSG00000188895
-0.73448	0.76867	ENSG00000001167
-0.73443	0.76866	ENSG00000239665
-0.73438	0.76864	ENSG00000188340
-0.73437	0.76864	ENSG00000126561
0.73433	0.23138	ENSG00000168004
0.73424	0.2314	ENSG00000258881
0.7342	0.23141	ENSG00000125430
-0.73413	0.76856	ENSG00000164169

-0.7341	0.76856	ENSG00000186104
0.73392	0.2315	ENSG00000101782
0.7338	0.23154	ENSG00000258869
0.73379	0.23154	ENSG00000243207
0.73379	0.23154	ENSG00000130810
-0.73377	0.76845	ENSG00000164037
0.7337	0.23156	ENSG00000189190
0.73364	0.23158	ENSG00000168564
-0.73354	0.76839	ENSG00000215475
-0.7334	0.76834	ENSG00000103175
0.7334	0.23166	ENSG00000180884
-0.73327	0.7683	ENSG00000129250
0.73326	0.2317	ENSG00000269676
-0.73314	0.76826	ENSG00000119457
-0.73309	0.76825	ENSG00000262560
0.73291	0.23181	ENSG00000162782
0.7329	0.23181	ENSG00000217702
0.73278	0.23185	ENSG00000145332
0.73278	0.23185	ENSG00000168661
-0.7327	0.76813	ENSG00000104044
0.73267	0.23188	ENSG00000163098
-0.73264	0.76811	ENSG00000132821
0.73257	0.23191	ENSG00000152147
-0.73254	0.76808	ENSG00000186074
0.73238	0.23197	ENSG00000080503
-0.7323	0.76801	ENSG00000024526
-0.73224	0.76799	ENSG00000203326
-0.73215	0.76796	ENSG00000269529
0.73199	0.23209	ENSG00000112406
0.73188	0.23212	ENSG00000255093
-0.73183	0.76786	ENSG00000268279
0.73182	0.23214	ENSG00000116604
-0.73178	0.76785	ENSG00000168528
-0.73171	0.76783	ENSG00000100664
-0.73167	0.76781	ENSG00000204669
0.73164	0.23219	ENSG00000125798
0.73155	0.23222	ENSG00000198723
0.73152	0.23223	ENSG00000182853
-0.73151	0.76777	ENSG00000162777
-0.73147	0.76775	ENSG00000204569
-0.73136	0.76772	ENSG00000131584
0.73136	0.23228	ENSG00000168843
-0.73134	0.76771	ENSG00000172482
0.73124	0.23232	ENSG00000197769
-0.7312	0.76767	ENSG00000196437
0.73117	0.23234	ENSG00000172817
0.7311	0.23236	ENSG00000113212
0.73106	0.23237	ENSG00000164603
0.73099	0.23239	ENSG00000171488
0.73089	0.23242	ENSG00000085449
0.73084	0.23244	ENSG00000176155

-0.73081	0.76755	ENSG00000063015
0.73071	0.23248	ENSG00000112759
-0.7307	0.76752	ENSG00000259003
-0.73067	0.76751	ENSG00000115459
0.7306	0.23251	ENSG00000094975
0.73056	0.23252	ENSG00000144730
0.73053	0.23253	ENSG00000134318
-0.73051	0.76746	ENSG00000119900
-0.73049	0.76746	ENSG00000058056
0.73043	0.23256	ENSG00000176407
0.73042	0.23257	ENSG00000009335
-0.73039	0.76743	ENSG00000206069
0.73026	0.23262	ENSG00000272916
0.73022	0.23263	ENSG00000167920
0.73007	0.23267	ENSG00000106686
0.73006	0.23268	ENSG00000151967
0.72997	0.2327	ENSG00000197580
-0.72991	0.76728	ENSG00000214919
-0.72991	0.76728	ENSG00000198874
0.7299	0.23273	ENSG00000164989
0.72989	0.23273	ENSG00000139163
-0.72987	0.76727	ENSG00000146809
0.72982	0.23275	ENSG00000110881
0.72957	0.23283	ENSG00000175054
-0.72954	0.76716	ENSG00000184900
-0.72944	0.76713	ENSG00000104974
0.72939	0.23288	ENSG00000135406
-0.72938	0.76711	ENSG00000131187
0.72936	0.23289	ENSG00000138764
0.72936	0.23289	ENSG00000185670
0.72928	0.23291	ENSG00000156675
-0.72927	0.76708	ENSG00000101191
0.72911	0.23297	ENSG00000171747
0.72909	0.23297	ENSG00000166181
-0.729	0.767	ENSG00000268080
-0.729	0.767	ENSG00000141086
0.729	0.233	ENSG00000268858
-0.72899	0.767	ENSG00000070018
0.72898	0.23301	ENSG00000214402
-0.72894	0.76698	ENSG00000108953
0.72888	0.23304	ENSG00000150456
0.72884	0.23305	ENSG00000115419
-0.7288	0.76694	ENSG00000066044
0.72874	0.23308	ENSG00000145996
0.72869	0.2331	ENSG00000228259
-0.72867	0.7669	ENSG00000113520
0.72859	0.23312	ENSG00000147586
-0.72853	0.76686	ENSG00000140795
0.72851	0.23315	ENSG00000171843
0.7285	0.23315	ENSG00000134882
-0.72843	0.76683	ENSG00000149575

0.72842	0.23318	ENSG00000066336
-0.72841	0.76682	ENSG00000104755
-0.72835	0.7668	ENSG00000214022
0.72835	0.2332	ENSG00000181408
-0.72826	0.76677	ENSG00000206203
-0.72801	0.7667	ENSG00000114124
0.72796	0.23332	ENSG00000100490
0.72786	0.23335	ENSG00000198812
-0.7278	0.76663	ENSG00000129128
-0.7275	0.76654	ENSG00000146540
-0.72748	0.76653	ENSG00000165487
0.72734	0.23351	ENSG00000165283
-0.72723	0.76646	ENSG00000178297
-0.72722	0.76645	ENSG00000158901
0.72722	0.23354	ENSG00000013561
0.72698	0.23362	ENSG00000143319
-0.72693	0.76636	ENSG00000090238
-0.72689	0.76635	ENSG00000187048
0.72688	0.23365	ENSG00000175387
-0.7268	0.76632	ENSG00000101654
-0.7268	0.76633	ENSG00000121858
-0.7267	0.7663	ENSG00000170989
0.72664	0.23372	ENSG00000165300
0.72652	0.23376	ENSG00000205086
0.72644	0.23378	ENSG00000140987
0.72641	0.23379	ENSG00000163714
-0.72609	0.76611	ENSG00000204428
-0.72599	0.76608	ENSG00000124593
-0.72599	0.76608	ENSG00000172156
0.72584	0.23397	ENSG00000113387
-0.72575	0.766	ENSG00000236311
-0.72567	0.76598	ENSG00000197110
0.72531	0.23413	ENSG00000132603
-0.72523	0.76584	ENSG00000100823
0.72498	0.23423	ENSG00000213380
0.7249	0.23426	ENSG00000106537
0.72476	0.2343	ENSG00000136877
-0.72464	0.76566	ENSG00000068878
0.72458	0.23435	ENSG00000132975
0.72447	0.23439	ENSG00000179979
0.72382	0.23459	ENSG00000090534
0.7238	0.2346	ENSG00000024048
-0.72379	0.7654	ENSG00000198720
-0.72378	0.7654	ENSG00000065548
-0.72366	0.76536	ENSG00000178229
-0.72358	0.76534	ENSG00000073849
-0.72337	0.76527	ENSG00000162129
0.72331	0.23474	ENSG00000251349
0.72331	0.23474	ENSG00000241697
0.72331	0.23474	ENSG00000100292
0.72317	0.23479	ENSG00000154305

-0.72314	0.7652	ENSG00000132688
-0.72311	0.76519	ENSG00000142082
0.72307	0.23482	ENSG00000100425
-0.72305	0.76518	ENSG00000135750
0.72303	0.23483	ENSG00000136573
0.72302	0.23483	ENSG00000162595
0.72298	0.23485	ENSG00000134200
-0.72289	0.76513	ENSG00000166159
0.72284	0.23489	ENSG00000184909
-0.72274	0.76508	ENSG00000182934
-0.72268	0.76506	ENSG00000073060
0.72248	0.235	ENSG00000205329
-0.72226	0.76493	ENSG00000217455
0.72224	0.23507	ENSG00000161040
-0.72223	0.76492	ENSG00000150401
-0.72202	0.76486	ENSG00000138448
-0.72189	0.76482	ENSG00000173171
0.72183	0.2352	ENSG00000169564
0.72177	0.23522	ENSG00000168118
-0.72171	0.76476	ENSG00000115145
0.72171	0.23524	ENSG00000083097
0.72157	0.23528	ENSG00000165072
0.72154	0.23529	ENSG00000156427
-0.72146	0.76469	ENSG00000204231
-0.72141	0.76467	ENSG00000107242
-0.72134	0.76465	ENSG00000149930
-0.7213	0.76464	ENSG00000178031
-0.72117	0.7646	ENSG00000160445
0.72114	0.23541	ENSG00000083842
0.72114	0.23541	ENSG00000273439
-0.72098	0.76454	ENSG00000049246
0.7209	0.23549	ENSG00000152582
-0.72083	0.76449	ENSG00000125538
-0.7208	0.76448	ENSG00000143333
0.72052	0.2356	ENSG00000124535
-0.7205	0.76439	ENSG00000137656
0.72038	0.23565	ENSG00000158874
0.72034	0.23566	ENSG00000164548
-0.7203	0.76433	ENSG00000169902
0.72029	0.23567	ENSG00000167182
0.72026	0.23568	ENSG00000197641
0.72016	0.23571	ENSG00000268163
-0.72001	0.76424	ENSG00000141748
0.71988	0.2358	ENSG00000118960
0.71984	0.23581	ENSG00000143107
-0.71978	0.76417	ENSG00000128802
-0.71973	0.76415	ENSG00000124615
0.71959	0.23589	ENSG00000081248
-0.71952	0.76409	ENSG00000120253
-0.71943	0.76406	ENSG00000151615
0.71931	0.23597	ENSG00000049656

0.7193	0.23598	ENSG00000075388
0.71928	0.23598	ENSG00000109519
0.71927	0.23599	ENSG00000162620
0.71923	0.236	ENSG00000184162
-0.71921	0.76399	ENSG00000138135
0.71919	0.23601	ENSG00000138738
-0.71906	0.76395	ENSG00000160447
-0.71905	0.76395	ENSG00000168758
0.71899	0.23607	ENSG00000130559
0.71899	0.23607	ENSG00000196132
0.71895	0.23609	ENSG00000184166
-0.71886	0.76389	ENSG00000011114
0.71885	0.23612	ENSG00000152049
0.71884	0.23612	ENSG00000171204
-0.71879	0.76387	ENSG00000152208
-0.71846	0.76376	ENSG00000176871
-0.71836	0.76373	ENSG00000138756
-0.71819	0.76368	ENSG00000119688
-0.71819	0.76368	ENSG00000137766
-0.71806	0.76364	ENSG00000154175
0.71798	0.23638	ENSG00000148482
0.71793	0.2364	ENSG00000148362
0.71786	0.23642	ENSG00000132855
0.7178	0.23644	ENSG00000198252
-0.71767	0.76352	ENSG00000100324
-0.71765	0.76351	ENSG00000124789
-0.7176	0.7635	ENSG00000165118
-0.7175	0.76347	ENSG00000170802
0.71743	0.23656	ENSG00000127616
0.71734	0.23658	ENSG00000174123
0.71732	0.23659	ENSG00000168056
-0.71729	0.7634	ENSG00000164236
-0.71728	0.7634	ENSG00000136925
-0.71702	0.76332	ENSG00000171793
0.71697	0.2367	ENSG00000102539
-0.71692	0.76329	ENSG00000184608
0.71692	0.23671	ENSG00000131778
0.71674	0.23677	ENSG00000084674
-0.71665	0.76321	ENSG00000013588
0.71661	0.23681	ENSG00000167674
-0.71656	0.76318	ENSG00000174498
0.71641	0.23687	ENSG00000134028
-0.71637	0.76312	ENSG00000178662
-0.71628	0.76309	ENSG00000182319
0.71625	0.23692	ENSG00000004455
0.71624	0.23692	ENSG00000131849
-0.71623	0.76308	ENSG00000140675
-0.7162	0.76307	ENSG00000140368
-0.71611	0.76304	ENSG00000162571
0.71611	0.23696	ENSG00000215397
-0.71595	0.76299	ENSG00000162913

0.71594	0.23702	ENSG00000196141
0.71582	0.23705	ENSG00000138018
0.71575	0.23707	ENSG00000187223
0.71553	0.23714	ENSG00000225485
0.71549	0.23715	ENSG00000158710
-0.71546	0.76284	ENSG00000077080
0.71541	0.23718	ENSG00000142444
-0.71538	0.76281	ENSG00000010292
-0.7153	0.76279	ENSG00000101448
-0.71527	0.76278	ENSG00000197241
0.71527	0.23722	ENSG00000124562
-0.71526	0.76277	ENSG00000172262
-0.71515	0.76274	ENSG00000139291
-0.71507	0.76272	ENSG00000213024
0.71505	0.23729	ENSG00000132953
-0.71501	0.7627	ENSG00000267802
-0.71493	0.76267	ENSG00000183779
0.71475	0.23738	ENSG00000006071
0.71472	0.23739	ENSG00000130396
0.71461	0.23742	ENSG00000181830
0.71449	0.23746	ENSG00000137692
0.71445	0.23748	ENSG00000169129
0.71442	0.23748	ENSG00000125733
0.71425	0.23754	ENSG00000179256
-0.71423	0.76246	ENSG00000171421
0.71419	0.23756	ENSG00000103037
0.71404	0.2376	ENSG00000104213
-0.71386	0.76234	ENSG00000179709
-0.71384	0.76234	ENSG00000103313
-0.71383	0.76233	ENSG00000177463
0.71383	0.23767	ENSG00000187569
0.71363	0.23773	ENSG00000169213
-0.71354	0.76224	ENSG00000163586
0.71353	0.23776	ENSG00000106723
0.71349	0.23777	ENSG00000184182
-0.71345	0.76222	ENSG00000154133
-0.7134	0.7622	ENSG00000213920
0.71306	0.2379	ENSG00000136891
-0.713	0.76208	ENSG00000163191
0.71287	0.23796	ENSG00000066468
-0.71277	0.76201	ENSG00000120733
-0.71259	0.76195	ENSG00000179639
0.71245	0.23809	ENSG00000143970
0.71242	0.2381	ENSG00000178537
-0.71237	0.76188	ENSG00000148290
0.71236	0.23812	ENSG00000163739
0.71212	0.2382	ENSG00000096433
-0.71183	0.76172	ENSG00000148341
-0.71178	0.7617	ENSG00000197454
0.71171	0.23832	ENSG00000269000
-0.71166	0.76166	ENSG00000205108

-0.71161	0.76165	ENSG00000116688
0.71128	0.23846	ENSG00000129990
-0.71116	0.76151	ENSG00000005421
0.71098	0.23855	ENSG00000186660
-0.71082	0.7614	ENSG00000103381
-0.71077	0.76139	ENSG00000079841
-0.71068	0.76136	ENSG00000165841
0.71061	0.23866	ENSG00000197415
-0.71047	0.76129	ENSG00000149451
0.71047	0.23871	ENSG00000139908
-0.71043	0.76128	ENSG00000124134
0.71023	0.23878	ENSG00000142453
-0.71017	0.7612	ENSG00000165655
-0.71003	0.76116	ENSG00000137135
-0.71002	0.76116	ENSG00000249139
-0.70979	0.76108	ENSG00000119685
0.70972	0.23894	ENSG00000067182
-0.70971	0.76106	ENSG00000181744
0.70963	0.23897	ENSG00000165609
0.70944	0.23902	ENSG00000100994
0.70913	0.23912	ENSG00000261949
-0.70906	0.76086	ENSG00000182261
0.709	0.23916	ENSG00000140939
0.70884	0.23921	ENSG00000258429
-0.70872	0.76075	ENSG00000185437
-0.70861	0.76072	ENSG00000164967
-0.7086	0.76071	ENSG00000145414
-0.70855	0.7607	ENSG00000135678
-0.70854	0.7607	ENSG00000084628
-0.70849	0.76068	ENSG00000116329
0.70844	0.23934	ENSG00000173992
-0.70842	0.76066	ENSG00000130997
0.7084	0.23935	ENSG00000133943
0.70819	0.23941	ENSG00000137675
-0.70813	0.76057	ENSG00000185800
0.70813	0.23943	ENSG00000189169
-0.70809	0.76055	ENSG00000196659
-0.70795	0.76051	ENSG00000142539
-0.70787	0.76049	ENSG00000144550
-0.70783	0.76047	ENSG00000139517
-0.70779	0.76046	ENSG00000105865
-0.70774	0.76045	ENSG00000162396
-0.70762	0.76041	ENSG00000174130
-0.70762	0.76041	ENSG00000174695
0.70762	0.23959	ENSG00000112299
-0.70761	0.76041	ENSG00000089351
-0.70749	0.76037	ENSG00000173641
-0.70731	0.76031	ENSG00000166813
-0.70713	0.76026	ENSG00000067606
0.70702	0.23978	ENSG00000213088
-0.70696	0.7602	ENSG00000170417

-0.70693	0.76019	ENSG00000069702
-0.70692	0.76019	ENSG00000132002
-0.70682	0.76016	ENSG00000213420
-0.70682	0.76016	ENSG00000139370
0.70658	0.23991	ENSG00000166359
-0.7065	0.76006	ENSG00000147601
0.70648	0.23994	ENSG00000008382
-0.70643	0.76004	ENSG00000119778
0.70643	0.23996	ENSG00000130227
-0.70601	0.75991	ENSG00000048991
-0.70598	0.7599	ENSG00000129757
-0.70594	0.75989	ENSG00000168398
-0.70588	0.75987	ENSG00000198053
0.70587	0.24013	ENSG00000177192
0.70582	0.24015	ENSG00000168439
-0.70576	0.75983	ENSG00000172748
0.70558	0.24022	ENSG00000121406
-0.70557	0.75977	ENSG00000123191
-0.70555	0.75977	ENSG00000214274
0.70537	0.24029	ENSG00000108406
0.70516	0.24035	ENSG00000124788
-0.70508	0.75962	ENSG00000173068
-0.70508	0.75962	ENSG00000196118
-0.70506	0.75961	ENSG00000185404
0.70505	0.24039	ENSG00000196578
0.70503	0.2404	ENSG00000143032
0.70493	0.24043	ENSG00000083635
-0.70489	0.75956	ENSG00000174450
0.70478	0.24047	ENSG00000196936
-0.70469	0.7595	ENSG00000162613
-0.70454	0.75945	ENSG00000120329
0.70447	0.24057	ENSG00000171199
0.70442	0.24058	ENSG00000099219
0.70422	0.24065	ENSG00000163682
0.70408	0.24069	ENSG00000116539
-0.70368	0.75918	ENSG00000101746
0.70364	0.24083	ENSG00000075089
-0.7035	0.75913	ENSG00000069812
-0.70331	0.75907	ENSG00000090686
0.70328	0.24094	ENSG00000213619
0.70301	0.24102	ENSG00000042088
0.70298	0.24103	ENSG00000179813
0.70296	0.24104	ENSG00000138688
0.70291	0.24106	ENSG00000120800
-0.70289	0.75894	ENSG00000061455
0.70283	0.24108	ENSG00000168040
-0.70282	0.75892	ENSG00000135318
0.70277	0.2411	ENSG00000197568
-0.70261	0.75885	ENSG00000205639
-0.7026	0.75885	ENSG00000197587
-0.70258	0.75884	ENSG00000243789

0.70245	0.2412	ENSG00000229859
-0.70239	0.75878	ENSG00000162511
0.70233	0.24124	ENSG00000166295
-0.70211	0.75869	ENSG00000104324
0.70211	0.24131	ENSG00000168802
0.7021	0.24131	ENSG00000120705
0.7021	0.24131	ENSG00000204839
0.7021	0.24131	ENSG00000174788
0.70208	0.24131	ENSG00000146757
-0.70189	0.75863	ENSG00000105186
0.70188	0.24138	ENSG00000131477
0.70186	0.24138	ENSG00000075539
0.70185	0.24139	ENSG00000074527
0.70183	0.24139	ENSG00000106688
0.70148	0.2415	ENSG00000198189
0.70144	0.24151	ENSG00000178950
-0.70142	0.75848	ENSG00000148337
-0.70129	0.75844	ENSG00000105854
-0.70128	0.75843	ENSG00000258691
0.70128	0.24156	ENSG00000167377
-0.7012	0.75841	ENSG00000145284
0.70115	0.2416	ENSG00000183019
0.70105	0.24163	ENSG00000070601
0.70104	0.24164	ENSG00000229972
-0.70102	0.75835	ENSG00000163982
0.70098	0.24166	ENSG00000113732
-0.70086	0.7583	ENSG00000189298
0.7007	0.24174	ENSG00000168807
-0.70068	0.75825	ENSG00000152822
0.70066	0.24176	ENSG00000111879
-0.70058	0.75822	ENSG00000035687
0.70058	0.24178	ENSG00000214285
-0.70056	0.75821	ENSG00000137441
0.70053	0.2418	ENSG00000101457
-0.70052	0.7582	ENSG00000108001
-0.70051	0.7582	ENSG00000080511
0.70048	0.24181	ENSG00000188334
-0.70045	0.75818	ENSG00000080493
0.70033	0.24186	ENSG00000257482
0.70019	0.2419	ENSG00000131142
0.70014	0.24192	ENSG00000121236
-0.70013	0.75808	ENSG00000183150
-0.70008	0.75806	ENSG00000175591
-0.69993	0.75801	ENSG00000180483
0.69981	0.24202	ENSG00000147894
-0.69964	0.75792	ENSG00000126814
-0.69959	0.75791	ENSG00000197263
0.6995	0.24212	ENSG00000105289
0.6995	0.24212	ENSG00000142549
0.69936	0.24216	ENSG00000158553
-0.69926	0.75781	ENSG00000108849

0.69904	0.24226	ENSG00000136436
-0.69901	0.75773	ENSG00000117758
0.69891	0.2423	ENSG00000173805
-0.69853	0.75758	ENSG00000036549
-0.69848	0.75756	ENSG00000162702
0.69829	0.2425	ENSG00000179943
-0.69826	0.75749	ENSG00000141378
0.6982	0.24252	ENSG00000243696
-0.69811	0.75745	ENSG00000158604
0.69809	0.24256	ENSG00000206557
0.69809	0.24256	ENSG00000165915
-0.69782	0.75736	ENSG00000162368
-0.69773	0.75733	ENSG00000268241
0.69762	0.24271	ENSG00000146574
0.69761	0.24271	ENSG00000107959
0.69755	0.24273	ENSG00000119714
-0.6974	0.75722	ENSG00000184224
0.69736	0.24279	ENSG00000112658
0.69734	0.24279	ENSG00000126218
0.69727	0.24282	ENSG00000108559
-0.69725	0.75718	ENSG00000161013
-0.69716	0.75715	ENSG00000181873
-0.69699	0.75709	ENSG00000005075
0.69668	0.243	ENSG00000198625
0.69666	0.24301	ENSG00000145016
0.69657	0.24304	ENSG00000180875
-0.69636	0.7569	ENSG00000173572
0.69635	0.24311	ENSG00000206474
0.69629	0.24312	ENSG00000117305
0.69621	0.24315	ENSG00000142657
-0.69609	0.75681	ENSG00000174989
0.696	0.24321	ENSG00000116406
0.69598	0.24322	ENSG00000137252
-0.69591	0.75676	ENSG00000262664
-0.69581	0.75672	ENSG00000176531
-0.69551	0.75663	ENSG00000184076
0.69527	0.24344	ENSG00000087470
-0.69526	0.75655	ENSG00000151655
0.69526	0.24345	ENSG00000132915
0.69514	0.24348	ENSG00000164244
-0.69506	0.75649	ENSG00000103126
0.69503	0.24352	ENSG00000136425
-0.69502	0.75648	ENSG00000100941
-0.69496	0.75646	ENSG00000198576
-0.69495	0.75646	ENSG00000035928
-0.69488	0.75644	ENSG00000064309
0.6947	0.24362	ENSG00000178623
0.69446	0.2437	ENSG00000092148
-0.69445	0.7563	ENSG00000182898
0.69439	0.24372	ENSG00000253426
-0.69436	0.75627	ENSG00000116544

-0.69424	0.75623	ENSG00000177239
-0.69413	0.7562	ENSG00000253320
-0.69408	0.75618	ENSG00000269650
-0.69406	0.75618	ENSG00000179431
0.69389	0.24388	ENSG00000168175
0.69381	0.2439	ENSG00000198258
0.69367	0.24394	ENSG00000141194
0.69363	0.24396	ENSG00000168411
-0.69357	0.75602	ENSG00000172769
0.69349	0.244	ENSG00000149926
0.69344	0.24402	ENSG00000143858
0.69335	0.24405	ENSG00000079313
-0.69327	0.75593	ENSG00000163697
0.69324	0.24408	ENSG00000065609
-0.69314	0.75589	ENSG00000137440
-0.69296	0.75583	ENSG00000239887
-0.69273	0.75576	ENSG00000179051
-0.69269	0.75575	ENSG00000234745
0.6922	0.2444	ENSG00000198788
-0.69213	0.75557	ENSG00000167755
-0.69199	0.75553	ENSG00000196705
0.69189	0.2445	ENSG00000106571
-0.69185	0.75548	ENSG00000178982
-0.69178	0.75546	ENSG00000166562
-0.69157	0.7554	ENSG00000177602
0.69157	0.2446	ENSG00000164113
0.69154	0.24461	ENSG00000185418
0.69143	0.24465	ENSG00000169495
0.69141	0.24465	ENSG00000249471
0.69139	0.24466	ENSG00000173272
-0.69133	0.75532	ENSG00000107537
0.6912	0.24472	ENSG00000160117
-0.69117	0.75527	ENSG00000119328
0.69101	0.24478	ENSG00000000419
0.69078	0.24485	ENSG00000256525
-0.69076	0.75514	ENSG00000145817
0.69076	0.24486	ENSG00000147889
-0.69074	0.75514	ENSG00000203668
-0.69071	0.75513	ENSG00000121957
0.69069	0.24488	ENSG00000133657
0.69052	0.24493	ENSG00000181061
-0.69051	0.75506	ENSG00000176209
0.69043	0.24496	ENSG00000113194
-0.69033	0.75501	ENSG00000148303
0.69012	0.24506	ENSG00000119509
0.69008	0.24507	ENSG00000100479
-0.68992	0.75488	ENSG00000074356
0.68985	0.24514	ENSG00000168612
-0.68973	0.75482	ENSG00000111145
-0.68968	0.7548	ENSG00000139977
-0.68967	0.7548	ENSG00000180340

-0.68951	0.75475	ENSG00000176842
0.6895	0.24525	ENSG00000170820
0.68944	0.24527	ENSG00000132329
-0.68939	0.75471	ENSG00000051620
-0.68938	0.75471	ENSG00000050748
0.68918	0.24536	ENSG00000129277
-0.68917	0.75464	ENSG00000173334
-0.68889	0.75456	ENSG00000222014
0.68883	0.24546	ENSG00000173531
-0.68881	0.75453	ENSG00000114923
0.6888	0.24547	ENSG00000177370
-0.68879	0.75452	ENSG00000143590
0.68872	0.2455	ENSG00000183853
0.68857	0.24555	ENSG00000213281
-0.68855	0.75445	ENSG00000161671
-0.68853	0.75444	ENSG00000151025
0.68845	0.24558	ENSG00000065060
0.68842	0.24559	ENSG00000144115
-0.68827	0.75436	ENSG00000077348
0.68817	0.24567	ENSG00000167914
-0.68797	0.75426	ENSG00000137575
0.68779	0.24579	ENSG00000105520
-0.68777	0.7542	ENSG00000150510
0.68776	0.2458	ENSG00000138758
-0.6877	0.75418	ENSG00000074660
-0.68758	0.75414	ENSG00000130950
0.68758	0.24586	ENSG00000004534
-0.68742	0.75409	ENSG00000005243
0.68736	0.24593	ENSG00000261832
0.68736	0.24593	ENSG00000178928
-0.68732	0.75406	ENSG00000155115
-0.68702	0.75396	ENSG00000188474
0.68695	0.24606	ENSG00000165629
0.68683	0.24609	ENSG00000242485
0.68681	0.2461	ENSG00000021762
0.68678	0.24611	ENSG00000107742
-0.68665	0.75385	ENSG00000036672
-0.68657	0.75382	ENSG00000172687
-0.6863	0.75374	ENSG00000188716
-0.68628	0.75373	ENSG00000240038
0.68625	0.24628	ENSG00000049283
0.6862	0.24629	ENSG00000104447
-0.68614	0.75369	ENSG00000178252
0.68612	0.24632	ENSG00000104881
0.68606	0.24634	ENSG00000125966
-0.68583	0.75359	ENSG00000251283
-0.68581	0.75358	ENSG00000088179
0.68575	0.24644	ENSG00000267954
-0.68562	0.75352	ENSG00000181220
0.68562	0.24648	ENSG00000152404
-0.68558	0.75351	ENSG00000204592

-0.68547	0.75348	ENSG00000183486
-0.68545	0.75347	ENSG00000146285
-0.68532	0.75343	ENSG00000152193
0.68528	0.24658	ENSG00000038002
0.68523	0.2466	ENSG00000221821
0.6852	0.24661	ENSG00000162004
0.68516	0.24662	ENSG00000253206
-0.68479	0.75326	ENSG00000138772
-0.68473	0.75324	ENSG00000197889
0.68472	0.24676	ENSG00000168646
-0.68467	0.75322	ENSG00000258417
-0.68442	0.75314	ENSG00000128408
-0.68422	0.75308	ENSG00000140481
0.68417	0.24693	ENSG00000169116
-0.68406	0.75303	ENSG00000251246
0.68401	0.24698	ENSG00000102978
0.68359	0.24712	ENSG00000138472
0.68338	0.24718	ENSG00000121552
0.68333	0.2472	ENSG00000141873
-0.6833	0.75279	ENSG00000106560
-0.68315	0.75274	ENSG00000182103
0.68312	0.24727	ENSG00000102878
-0.68307	0.75272	ENSG00000243501
0.68303	0.24729	ENSG00000170381
0.68293	0.24733	ENSG00000063180
0.68273	0.24739	ENSG00000221888
0.68206	0.2476	ENSG00000180447
0.68183	0.24767	ENSG00000096968
0.68183	0.24767	ENSG00000176834
-0.68181	0.75232	ENSG00000120063
0.68181	0.24768	ENSG00000088367
-0.68172	0.75229	ENSG00000176956
-0.68171	0.75229	ENSG00000131398
-0.68157	0.75224	ENSG00000108298
-0.68149	0.75222	ENSG00000160838
0.68148	0.24778	ENSG00000137814
-0.68137	0.75218	ENSG00000125691
-0.68133	0.75217	ENSG00000121871
-0.68132	0.75217	ENSG00000151376
0.68121	0.24787	ENSG00000167578
0.68109	0.24791	ENSG00000047056
0.68093	0.24796	ENSG00000185662
-0.68089	0.75203	ENSG00000213953
0.68086	0.24798	ENSG00000255150
-0.68076	0.75199	ENSG00000163075
0.68072	0.24802	ENSG00000124812
-0.68063	0.75195	ENSG00000138107
0.68055	0.24808	ENSG00000145384
-0.68024	0.75182	ENSG00000154822
0.68023	0.24818	ENSG00000130764
0.6801	0.24822	ENSG00000184828

0.68007	0.24823	ENSG00000124939
0.68006	0.24823	ENSG00000250038
-0.67974	0.75167	ENSG00000148488
0.67959	0.24838	ENSG00000149735
0.67952	0.24841	ENSG00000198482
-0.6795	0.75159	ENSG00000182472
0.67946	0.24842	ENSG00000107562
0.6794	0.24844	ENSG00000007372
-0.67914	0.75147	ENSG00000109680
-0.67908	0.75145	ENSG00000085832
0.67907	0.24855	ENSG00000135378
0.679	0.24857	ENSG00000140945
0.67898	0.24858	ENSG00000106524
-0.67884	0.75138	ENSG00000186895
-0.67877	0.75136	ENSG00000006432
0.67853	0.24872	ENSG00000160229
0.67849	0.24873	ENSG00000213160
0.6784	0.24876	ENSG00000115884
0.67835	0.24877	ENSG00000117713
0.67828	0.2488	ENSG00000079432
0.67824	0.24881	ENSG00000182156
0.67819	0.24883	ENSG00000149256
-0.67813	0.75116	ENSG00000146904
-0.67811	0.75115	ENSG00000164400
0.67809	0.24886	ENSG00000109805
0.67794	0.2489	ENSG00000160218
-0.67793	0.75109	ENSG00000142233
-0.67786	0.75107	ENSG00000167434
0.67784	0.24894	ENSG00000164494
-0.67783	0.75106	ENSG00000142515
0.6778	0.24895	ENSG00000106299
-0.67775	0.75104	ENSG00000196388
-0.67772	0.75103	ENSG00000133103
0.67762	0.24901	ENSG00000163156
0.67754	0.24903	ENSG00000131771
0.67749	0.24905	ENSG00000154978
-0.67739	0.75092	ENSG00000164880
-0.67735	0.75091	ENSG00000019582
-0.67733	0.7509	ENSG00000171135
0.6771	0.24917	ENSG00000188641
0.67708	0.24918	ENSG00000196453
-0.67696	0.75078	ENSG00000121577
0.67681	0.24926	ENSG00000204671
0.67672	0.24929	ENSG00000092068
0.67669	0.2493	ENSG00000166482
-0.67633	0.75058	ENSG00000119927
-0.67623	0.75055	ENSG00000197465
-0.67596	0.75047	ENSG00000162512
-0.67594	0.75046	ENSG00000162383
-0.67589	0.75044	ENSG00000167333
-0.6757	0.75038	ENSG00000116977

0.67563	0.24964	ENSG00000133789
0.6756	0.24965	ENSG00000205544
0.67554	0.24967	ENSG00000250506
0.67551	0.24968	ENSG00000166091
0.67551	0.24968	ENSG00000165588
-0.67549	0.75032	ENSG00000177494
-0.67549	0.75032	ENSG00000204519
-0.6754	0.75029	ENSG00000182551
0.67539	0.24971	ENSG00000187699
-0.67534	0.75027	ENSG00000109929
-0.67527	0.75025	ENSG00000153201
0.67499	0.24984	ENSG00000164325
-0.67484	0.75011	ENSG00000168615
0.67484	0.24989	ENSG00000212900
0.6748	0.2499	ENSG00000177272
0.67478	0.24991	ENSG00000205208
-0.67474	0.75008	ENSG00000140798
0.67461	0.24996	ENSG00000140873
-0.67456	0.75002	ENSG00000124440
0.67454	0.24998	ENSG00000187210
-0.67451	0.75001	ENSG00000169071
0.67446	0.25001	ENSG00000224153
0.67439	0.25003	ENSG00000188385
0.67418	0.2501	ENSG00000205850
-0.67393	0.74982	ENSG00000108433
-0.67391	0.74981	ENSG00000167825
-0.67383	0.74979	ENSG00000001630
0.67374	0.25024	ENSG00000181555
-0.67373	0.74976	ENSG00000042062
-0.67361	0.74972	ENSG00000101337
0.67336	0.25036	ENSG00000138083
-0.67326	0.74961	ENSG00000145782
0.67303	0.25046	ENSG00000198843
0.67276	0.25055	ENSG00000168685
0.67267	0.25058	ENSG00000113552
0.67241	0.25066	ENSG00000188848
0.67232	0.25069	ENSG00000059728
0.67231	0.25069	ENSG00000258588
-0.67218	0.74927	ENSG00000103111
0.67204	0.25078	ENSG00000170502
0.67203	0.25078	ENSG00000122674
-0.67201	0.74921	ENSG00000136478
-0.67185	0.74916	ENSG00000104267
0.67179	0.25086	ENSG00000100697
-0.67178	0.74914	ENSG00000173209
-0.67165	0.7491	ENSG00000137821
0.67161	0.25092	ENSG00000203877
0.67152	0.25095	ENSG00000176273
-0.6715	0.74905	ENSG00000197892
0.67143	0.25097	ENSG00000163626
0.67132	0.25101	ENSG00000169291

-0.67118	0.74895	ENSG00000101251
-0.67097	0.74888	ENSG00000178935
0.67093	0.25113	ENSG00000082153
-0.67088	0.74885	ENSG00000141556
0.67076	0.25119	ENSG00000136111
0.67075	0.25119	ENSG00000139344
-0.67074	0.74881	ENSG00000130283
-0.67074	0.74881	ENSG00000223802
-0.6707	0.74879	ENSG00000147421
-0.6707	0.74879	ENSG00000186766
0.67067	0.25121	ENSG00000100348
0.67064	0.25122	ENSG00000148677
-0.67059	0.74876	ENSG00000056291
-0.67058	0.74876	ENSG00000072364
-0.67043	0.74871	ENSG00000135535
0.67028	0.25134	ENSG00000134160
0.67025	0.25135	ENSG00000163705
-0.67008	0.7486	ENSG00000091656
0.67001	0.25143	ENSG00000177105
-0.66994	0.74855	ENSG00000187862
-0.66985	0.74852	ENSG00000101365
0.66984	0.25148	ENSG00000070610
0.66972	0.25152	ENSG00000161243
0.66966	0.25154	ENSG00000197170
-0.66958	0.74844	ENSG00000172421
-0.6695	0.74841	ENSG00000204449
0.66946	0.2516	ENSG00000186889
0.66937	0.25163	ENSG00000105849
-0.66936	0.74837	ENSG00000157212
-0.66932	0.74835	ENSG00000167703
-0.66931	0.74835	ENSG00000015532
0.66925	0.25167	ENSG00000203710
-0.66923	0.74832	ENSG00000127903
-0.669	0.74825	ENSG00000090661
-0.66892	0.74823	ENSG00000128604
0.66884	0.2518	ENSG00000163116
0.66876	0.25183	ENSG00000112186
-0.66872	0.74816	ENSG00000105369
0.66872	0.25184	ENSG00000189280
-0.6687	0.74816	ENSG00000069493
-0.66869	0.74815	ENSG00000095261
-0.66864	0.74814	ENSG00000116871
0.66859	0.25188	ENSG00000135835
-0.66856	0.74811	ENSG00000120899
0.6685	0.25191	ENSG00000051382
0.66837	0.25195	ENSG00000131844
0.66835	0.25196	ENSG00000131943
0.66822	0.252	ENSG00000171540
-0.66817	0.74799	ENSG00000104419
0.66817	0.25201	ENSG00000198909
-0.66795	0.74792	ENSG00000142627

-0.66791	0.74791	ENSG00000187990
0.66791	0.2521	ENSG00000106268
0.66782	0.25212	ENSG00000131408
0.6677	0.25216	ENSG00000122870
-0.66763	0.74782	ENSG00000254521
-0.66761	0.74781	ENSG00000167822
-0.66743	0.74775	ENSG00000126460
0.66742	0.25225	ENSG00000111907
0.66725	0.2523	ENSG00000188511
-0.66718	0.74767	ENSG00000100625
-0.66707	0.74764	ENSG00000128683
-0.66704	0.74763	ENSG00000196547
-0.66696	0.7476	ENSG00000168421
0.66696	0.2524	ENSG00000196171
0.66648	0.25255	ENSG00000161277
-0.66642	0.74743	ENSG00000144224
0.66631	0.25261	ENSG00000132912
0.66631	0.25261	ENSG00000106144
0.66627	0.25262	ENSG00000135547
-0.66615	0.74734	ENSG00000171016
0.66601	0.2527	ENSG00000055118
0.66599	0.25271	ENSG00000221977
0.66597	0.25271	ENSG00000141034
0.66596	0.25272	ENSG00000135108
-0.66587	0.74725	ENSG00000152952
0.66587	0.25275	ENSG00000179817
-0.66563	0.74718	ENSG00000167705
0.66563	0.25282	ENSG00000197046
0.66548	0.25287	ENSG00000150782
0.66535	0.25291	ENSG00000100605
-0.66522	0.74705	ENSG00000183049
-0.66519	0.74703	ENSG00000145337
-0.66507	0.747	ENSG00000111405
0.66505	0.25301	ENSG00000154229
-0.66502	0.74698	ENSG00000198211
0.66492	0.25305	ENSG00000186230
-0.66491	0.74695	ENSG00000149346
0.6648	0.25309	ENSG00000127804
0.66477	0.2531	ENSG00000180934
-0.66461	0.74685	ENSG00000068724
-0.66456	0.74683	ENSG00000141140
0.66455	0.25317	ENSG00000148841
0.66455	0.25317	ENSG00000008517
0.66445	0.2532	ENSG00000145730
0.66444	0.2532	ENSG00000153790
0.66443	0.25321	ENSG00000150556
0.66426	0.25326	ENSG00000133028
0.66385	0.25339	ENSG00000166446
0.66383	0.2534	ENSG00000159352
0.66379	0.25341	ENSG00000166225
-0.6637	0.74656	ENSG00000150403

0.6637	0.25344	ENSG00000066117
-0.66369	0.74655	ENSG00000117625
-0.66363	0.74654	ENSG00000268040
-0.66358	0.74652	ENSG00000164638
0.66352	0.2535	ENSG00000166507
0.66348	0.25351	ENSG00000087085
0.66348	0.25351	ENSG00000021645
-0.66335	0.74645	ENSG00000120265
-0.66324	0.74641	ENSG00000198959
0.66311	0.25363	ENSG00000234237
0.66309	0.25364	ENSG00000104888
-0.66304	0.74635	ENSG00000170145
0.66297	0.25368	ENSG00000204703
-0.66292	0.74631	ENSG00000031081
-0.66289	0.7463	ENSG00000100554
0.66276	0.25374	ENSG00000128253
0.66275	0.25375	ENSG00000142319
0.66273	0.25375	ENSG00000013374
-0.66262	0.74621	ENSG00000103429
-0.66258	0.7462	ENSG00000189366
-0.66249	0.74617	ENSG00000087245
-0.66247	0.74616	ENSG00000197756
0.66242	0.25385	ENSG00000150048
0.66229	0.25389	ENSG00000166025
-0.66225	0.74609	ENSG00000105278
-0.66219	0.74608	ENSG00000197616
-0.66216	0.74607	ENSG00000169727
0.66206	0.25397	ENSG00000150783
0.66199	0.25399	ENSG00000146670
0.66199	0.25399	ENSG00000005189
0.66192	0.25401	ENSG00000228120
0.6619	0.25402	ENSG00000132466
0.66179	0.25405	ENSG00000258713
-0.66171	0.74592	ENSG00000086666
-0.66171	0.74592	ENSG00000188321
-0.66148	0.74585	ENSG00000163645
-0.66148	0.74585	ENSG00000176046
0.66141	0.25417	ENSG00000173226
0.66107	0.25428	ENSG00000180316
-0.66105	0.74571	ENSG00000138621
-0.66099	0.74569	ENSG00000205423
-0.66054	0.74555	ENSG00000139220
-0.66049	0.74553	ENSG00000268424
0.66049	0.25447	ENSG00000168454
0.6604	0.2545	ENSG00000179695
0.6604	0.2545	ENSG00000268960
0.66027	0.25454	ENSG00000175294
0.66026	0.25454	ENSG00000140749
0.66019	0.25457	ENSG00000167080
-0.66014	0.74542	ENSG00000269074
-0.65993	0.74535	ENSG00000256206

-0.65973	0.74529	ENSG00000108587
-0.65966	0.74526	ENSG00000187555
-0.65953	0.74522	ENSG00000164508
0.65934	0.25484	ENSG00000137075
0.65933	0.25484	ENSG00000182747
0.65932	0.25484	ENSG00000172538
-0.65922	0.74512	ENSG00000130311
-0.65913	0.74509	ENSG00000069206
0.65908	0.25492	ENSG00000180440
0.65907	0.25492	ENSG00000179097
0.65903	0.25494	ENSG00000083896
0.65902	0.25494	ENSG00000260836
0.65899	0.25495	ENSG00000162896
0.65874	0.25503	ENSG00000241404
0.65847	0.25512	ENSG00000065029
-0.65816	0.74478	ENSG00000160584
-0.65808	0.74476	ENSG00000113163
0.65801	0.25527	ENSG00000268791
0.65795	0.25529	ENSG00000243509
-0.65791	0.7447	ENSG00000214700
-0.6579	0.7447	ENSG00000152422
-0.65784	0.74468	ENSG00000251247
-0.65778	0.74466	ENSG00000204866
0.65746	0.25544	ENSG00000159263
0.65741	0.25546	ENSG00000161835
-0.65733	0.74452	ENSG00000127220
0.65732	0.25549	ENSG00000130818
-0.65713	0.74445	ENSG00000228273
0.65708	0.25557	ENSG00000161381
-0.65707	0.74443	ENSG00000067221
-0.65701	0.74441	ENSG00000089356
-0.65697	0.7444	ENSG00000175426
-0.65688	0.74437	ENSG00000167291
-0.65677	0.74433	ENSG00000116857
0.65668	0.25569	ENSG00000196781
0.65662	0.25571	ENSG00000249087
-0.65659	0.74428	ENSG00000167799
-0.65651	0.74425	ENSG00000219545
-0.65648	0.74424	ENSG00000152214
0.65641	0.25578	ENSG00000170275
-0.65637	0.74421	ENSG00000146281
0.65635	0.2558	ENSG00000184517
-0.65622	0.74416	ENSG00000067225
-0.65618	0.74415	ENSG00000158516
-0.65618	0.74415	ENSG00000105447
-0.65609	0.74412	ENSG00000156671
0.65594	0.25593	ENSG00000169508
0.65592	0.25594	ENSG00000025708
0.65588	0.25595	ENSG00000134516
-0.65583	0.74403	ENSG00000177119
0.65582	0.25597	ENSG00000149798

0.65565	0.25602	ENSG00000171714
-0.65512	0.74381	ENSG00000267680
0.65501	0.25623	ENSG00000002587
-0.65496	0.74375	ENSG00000114554
0.6549	0.25627	ENSG00000037280
0.65484	0.25629	ENSG00000179008
-0.65462	0.74364	ENSG00000170604
-0.65459	0.74363	ENSG00000151379
0.65444	0.25641	ENSG00000181649
0.65444	0.25641	ENSG00000128271
0.65442	0.25642	ENSG00000100319
0.6544	0.25643	ENSG00000179151
0.65432	0.25645	ENSG00000169064
0.6542	0.25649	ENSG00000189030
0.65417	0.2565	ENSG00000116096
-0.65414	0.74349	ENSG00000090975
-0.65411	0.74348	ENSG00000169439
0.65395	0.25657	ENSG00000111291
0.6539	0.25659	ENSG00000019102
0.65389	0.25659	ENSG00000078967
-0.65378	0.74337	ENSG00000261652
-0.65374	0.74336	ENSG00000121310
-0.65353	0.74329	ENSG00000213398
0.65349	0.25672	ENSG00000179796
0.65345	0.25673	ENSG00000163607
-0.65333	0.74323	ENSG00000169258
-0.65333	0.74323	ENSG00000164691
-0.65326	0.74321	ENSG00000064419
0.65308	0.25685	ENSG00000132669
0.65301	0.25688	ENSG00000247077
-0.653	0.74312	ENSG00000104808
-0.65267	0.74301	ENSG00000255639
0.65264	0.257	ENSG00000185920
-0.65258	0.74299	ENSG00000091622
-0.65252	0.74297	ENSG00000173950
-0.65195	0.74278	ENSG00000150907
0.65184	0.25725	ENSG00000112972
0.65181	0.25726	ENSG00000268805
-0.6518	0.74274	ENSG00000248919
-0.65178	0.74273	ENSG00000198911
-0.65176	0.74272	ENSG00000204611
0.65168	0.2573	ENSG00000163602
-0.65157	0.74266	ENSG00000186409
-0.65156	0.74266	ENSG00000110107
0.65154	0.25735	ENSG00000239282
-0.65131	0.74258	ENSG00000163155
0.65129	0.25743	ENSG00000155868
0.65112	0.25748	ENSG00000167747
0.65107	0.2575	ENSG00000133606
-0.65101	0.74248	ENSG00000111199
-0.6509	0.74244	ENSG00000187134

0.65082	0.25758	ENSG00000197566
-0.65076	0.7424	ENSG00000254995
0.65065	0.25764	ENSG00000163577
-0.6504	0.74228	ENSG00000166405
-0.6504	0.74228	ENSG00000174600
-0.65032	0.74226	ENSG00000228278
-0.65015	0.7422	ENSG00000172954
0.65014	0.2578	ENSG00000135047
0.64997	0.25785	ENSG00000136816
-0.64976	0.74208	ENSG00000187600
-0.64967	0.74205	ENSG00000110848
0.64952	0.258	ENSG00000198083
-0.64948	0.74198	ENSG00000160161
-0.64943	0.74197	ENSG00000069399
-0.64941	0.74196	ENSG00000088035
-0.6493	0.74193	ENSG00000147324
-0.64917	0.74189	ENSG00000167800
-0.64909	0.74186	ENSG00000138834
-0.64904	0.74185	ENSG00000111554
0.64901	0.25817	ENSG00000138944
-0.64885	0.74178	ENSG00000147853
0.64871	0.25826	ENSG00000203970
-0.64867	0.74172	ENSG00000176473
0.64863	0.25829	ENSG00000081051
0.64863	0.25829	ENSG00000172459
-0.64844	0.74165	ENSG00000232671
0.64839	0.25837	ENSG00000074695
-0.64835	0.74162	ENSG00000108474
0.64817	0.25844	ENSG00000167315
-0.64814	0.74155	ENSG00000105825
0.64814	0.25845	ENSG00000130653
0.64811	0.25846	ENSG00000090920
-0.64808	0.74153	ENSG00000165113
0.64799	0.2585	ENSG00000176256
0.64794	0.25851	ENSG00000180616
0.64773	0.25858	ENSG00000214216
0.64768	0.2586	ENSG00000255073
-0.64761	0.74138	ENSG00000106780
-0.64755	0.74136	ENSG00000137948
0.64753	0.25864	ENSG00000152944
-0.64735	0.7413	ENSG00000145777
0.64734	0.25871	ENSG00000162694
-0.6473	0.74128	ENSG00000171014
-0.64714	0.74123	ENSG00000136546
-0.64704	0.7412	ENSG00000267041
0.64701	0.25881	ENSG00000148175
-0.64693	0.74116	ENSG00000174791
0.64684	0.25887	ENSG00000105063
0.6468	0.25888	ENSG00000204930
-0.64677	0.74111	ENSG00000214736
0.64662	0.25894	ENSG00000175482

0.64637	0.25902	ENSG00000080224
-0.64635	0.74097	ENSG00000081087
0.64635	0.25903	ENSG00000176171
-0.64632	0.74096	ENSG00000170633
0.64624	0.25906	ENSG00000141854
-0.64622	0.74093	ENSG00000178171
0.64608	0.25912	ENSG00000156510
-0.64604	0.74087	ENSG00000112232
0.64599	0.25914	ENSG00000197757
0.64582	0.2592	ENSG00000198203
-0.64575	0.74078	ENSG00000183269
-0.64571	0.74077	ENSG00000167216
0.64569	0.25924	ENSG00000075073
-0.64567	0.74075	ENSG00000257987
0.64559	0.25927	ENSG00000159455
0.64556	0.25928	ENSG00000183313
-0.64542	0.74067	ENSG00000106336
0.64531	0.25936	ENSG00000132155
0.6453	0.25937	ENSG00000121797
-0.64529	0.74063	ENSG00000174446
-0.6452	0.7406	ENSG00000109332
0.64514	0.25942	ENSG00000105438
0.64507	0.25944	ENSG00000105556
0.64506	0.25945	ENSG00000142871
0.64485	0.25951	ENSG00000100362
-0.64481	0.74047	ENSG00000072803
-0.64468	0.74043	ENSG00000115657
0.64449	0.25963	ENSG00000186566
0.64445	0.25964	ENSG00000122176
-0.64444	0.74035	ENSG00000269490
0.64444	0.25964	ENSG00000117222
0.64435	0.25967	ENSG00000116044
0.64429	0.25969	ENSG00000171126
0.64413	0.25975	ENSG00000257446
0.64364	0.2599	ENSG00000168930
0.64359	0.25992	ENSG00000088832
0.64357	0.25993	ENSG00000151846
0.64343	0.25997	ENSG00000174844
0.64341	0.25998	ENSG00000215298
0.64328	0.26002	ENSG00000184988
-0.64323	0.73996	ENSG00000164220
0.643	0.26011	ENSG00000114654
0.64299	0.26011	ENSG00000143321
0.64283	0.26017	ENSG00000136918
0.64272	0.2602	ENSG00000204576
-0.64271	0.73979	ENSG00000180209
0.64265	0.26023	ENSG00000138769
0.64261	0.26024	ENSG00000205707
-0.64258	0.73975	ENSG00000258388
-0.64255	0.73974	ENSG00000181264
-0.64253	0.73974	ENSG00000172046

0.6424	0.26031	ENSG00000164488
-0.64236	0.73968	ENSG00000236699
-0.6422	0.73963	ENSG00000163435
-0.64205	0.73958	ENSG00000197430
0.64198	0.26044	ENSG00000087087
0.64197	0.26045	ENSG00000171103
-0.64191	0.73953	ENSG00000136247
-0.64187	0.73952	ENSG00000204922
-0.64183	0.73951	ENSG00000180777
0.6418	0.2605	ENSG00000171180
0.6418	0.2605	ENSG00000139549
-0.64171	0.73947	ENSG00000204010
0.6416	0.26057	ENSG00000138138
0.64158	0.26057	ENSG00000196189
-0.64129	0.73933	ENSG00000135801
0.64124	0.26068	ENSG00000155275
0.64108	0.26074	ENSG00000100207
0.64093	0.26079	ENSG00000134184
-0.6408	0.73917	ENSG00000110148
-0.64079	0.73917	ENSG00000110435
-0.64057	0.7391	ENSG00000229387
0.64045	0.26094	ENSG00000215203
-0.64017	0.73897	ENSG00000233670
-0.64015	0.73896	ENSG00000132718
-0.63994	0.73889	ENSG00000180251
-0.63991	0.73888	ENSG00000153574
-0.63978	0.73884	ENSG00000178074
-0.63962	0.73879	ENSG00000175305
-0.63945	0.73874	ENSG00000170881
-0.63936	0.73871	ENSG00000136942
-0.63933	0.7387	ENSG00000170266
-0.63926	0.73867	ENSG00000196460
0.63926	0.26133	ENSG00000186654
-0.63911	0.73862	ENSG00000179841
-0.63894	0.73857	ENSG00000182923
-0.63872	0.7385	ENSG00000269404
-0.63868	0.73849	ENSG00000184678
-0.63836	0.73838	ENSG00000128739
0.63808	0.26171	ENSG00000160224
-0.63792	0.73824	ENSG00000154920
-0.63785	0.73821	ENSG00000139973
-0.63778	0.73819	ENSG00000174937
-0.63771	0.73817	ENSG00000198967
0.63768	0.26184	ENSG00000185127
0.63756	0.26188	ENSG00000125779
-0.63753	0.73811	ENSG00000204673
-0.6375	0.7381	ENSG00000187446
-0.63747	0.73809	ENSG00000131437
-0.63746	0.73809	ENSG00000088320
-0.63745	0.73808	ENSG00000082898
-0.63739	0.73807	ENSG00000160321

0.63728	0.26197	ENSG00000127993
0.63703	0.26205	ENSG00000163600
-0.63694	0.73792	ENSG00000168530
0.63691	0.26209	ENSG00000196693
0.63684	0.26211	ENSG00000165807
0.63677	0.26214	ENSG00000115414
0.63677	0.26214	ENSG00000112874
0.63649	0.26223	ENSG00000143185
0.63642	0.26225	ENSG00000166341
-0.63641	0.73775	ENSG00000085998
0.63618	0.26233	ENSG00000167612
-0.63617	0.73767	ENSG00000180438
-0.63593	0.73759	ENSG00000105053
0.63591	0.26242	ENSG00000205133
0.63589	0.26242	ENSG00000231192
0.63587	0.26243	ENSG00000048540
0.63585	0.26244	ENSG00000133112
-0.63564	0.73749	ENSG00000108515
0.63564	0.26251	ENSG00000178028
0.63563	0.26251	ENSG00000198400
-0.63559	0.73748	ENSG00000123407
-0.63555	0.73747	ENSG00000163884
0.63552	0.26254	ENSG00000205358
0.63537	0.26259	ENSG00000130935
-0.63525	0.73737	ENSG00000178217
-0.63519	0.73735	ENSG00000179840
0.63517	0.26266	ENSG00000112077
0.63507	0.26269	ENSG00000125831
0.63505	0.2627	ENSG00000168297
0.63479	0.26278	ENSG00000136280
0.63462	0.26284	ENSG00000157916
0.63458	0.26285	ENSG00000269476
0.63456	0.26286	ENSG00000142669
0.63454	0.26286	ENSG00000204414
0.63444	0.2629	ENSG00000159086
0.63437	0.26292	ENSG00000100209
0.63432	0.26294	ENSG00000186517
0.63428	0.26295	ENSG00000257411
-0.63419	0.73702	ENSG00000081237
0.63415	0.26299	ENSG00000148396
0.63393	0.26306	ENSG00000087053
-0.63392	0.73693	ENSG00000111328
-0.63357	0.73682	ENSG00000174672
0.63356	0.26318	ENSG00000269165
0.6335	0.2632	ENSG00000066032
0.63335	0.26325	ENSG00000114270
-0.6333	0.73673	ENSG00000225697
0.63325	0.26328	ENSG00000126775
0.63322	0.26329	ENSG00000242180
0.63286	0.26341	ENSG00000180869
-0.63253	0.73648	ENSG00000137496

-0.63245	0.73645	ENSG00000124657
0.63235	0.26358	ENSG00000181781
0.63229	0.2636	ENSG00000125384
-0.63228	0.7364	ENSG00000269855
0.63224	0.26361	ENSG00000138193
-0.63218	0.73636	ENSG00000198099
-0.63208	0.73633	ENSG00000076321
0.63189	0.26373	ENSG00000138398
0.63186	0.26374	ENSG00000131435
-0.63173	0.73622	ENSG00000267596
-0.6315	0.73614	ENSG00000166313
-0.63138	0.7361	ENSG00000121413
-0.63138	0.73611	ENSG00000143520
0.63136	0.2639	ENSG00000167555
-0.63131	0.73608	ENSG00000125975
-0.63128	0.73607	ENSG00000148154
0.63121	0.26395	ENSG00000114473
0.63113	0.26398	ENSG00000221836
0.63082	0.26408	ENSG00000177042
0.6306	0.26415	ENSG00000250673
0.63059	0.26415	ENSG00000233438
0.63053	0.26418	ENSG00000139610
-0.63049	0.73581	ENSG00000156030
-0.63049	0.73581	ENSG00000261884
0.63048	0.26419	ENSG00000129646
-0.63044	0.7358	ENSG00000110092
-0.63044	0.7358	ENSG00000154143
0.6304	0.26422	ENSG00000182040
0.63039	0.26422	ENSG00000255663
-0.63037	0.73577	ENSG00000109625
-0.63032	0.73576	ENSG00000167850
0.63032	0.26424	ENSG00000069020
-0.63005	0.73567	ENSG00000064490
0.63003	0.26434	ENSG00000175470
-0.62997	0.73564	ENSG00000131634
0.62989	0.26438	ENSG00000214193
-0.62973	0.73556	ENSG00000121742
0.62954	0.2645	ENSG00000075218
-0.62953	0.7355	ENSG00000166135
-0.62952	0.73549	ENSG00000187650
0.62952	0.2645	ENSG00000186452
0.62951	0.26451	ENSG00000171497
0.62947	0.26452	ENSG00000168032
0.62945	0.26453	ENSG00000250127
0.62942	0.26454	ENSG00000160460
0.6294	0.26454	ENSG00000173542
0.62936	0.26456	ENSG00000139780
-0.62917	0.73538	ENSG00000160789
-0.62912	0.73536	ENSG00000123213
0.62906	0.26466	ENSG00000179055
0.62891	0.2647	ENSG00000075886

-0.6289	0.73529	ENSG00000268194
0.62884	0.26473	ENSG00000095397
0.62875	0.26476	ENSG00000164949
-0.62874	0.73524	ENSG00000106070
0.62873	0.26476	ENSG00000206535
-0.62847	0.73515	ENSG00000249428
-0.62845	0.73515	ENSG00000268657
0.62838	0.26488	ENSG00000166922
0.62821	0.26493	ENSG00000241360
-0.62819	0.73506	ENSG00000269089
0.62815	0.26495	ENSG00000055955
0.62812	0.26496	ENSG00000176401
-0.62807	0.73502	ENSG00000105619
-0.62796	0.73499	ENSG00000164975
-0.62787	0.73496	ENSG00000115486
-0.62785	0.73495	ENSG00000135587
0.6277	0.2651	ENSG00000185875
0.62764	0.26512	ENSG00000079337
0.62748	0.26517	ENSG00000178358
0.62745	0.26518	ENSG00000054118
0.62743	0.26519	ENSG00000114771
-0.62741	0.73481	ENSG00000147647
0.62736	0.26521	ENSG00000120210
0.62731	0.26523	ENSG00000151360
0.62715	0.26528	ENSG00000141977
0.62714	0.26528	ENSG00000150527
-0.62708	0.7347	ENSG00000269179
-0.62706	0.73469	ENSG00000140511
0.62701	0.26533	ENSG00000205517
-0.62684	0.73462	ENSG00000131732
0.62684	0.26538	ENSG00000177201
0.62683	0.26538	ENSG00000163915
-0.62682	0.73461	ENSG00000122025
-0.62666	0.73456	ENSG00000088833
-0.62657	0.73453	ENSG00000157551
0.62655	0.26548	ENSG00000182575
0.62645	0.26551	ENSG00000261459
-0.62642	0.73448	ENSG00000258987
0.62639	0.26553	ENSG00000127362
-0.6263	0.73444	ENSG00000101346
-0.62603	0.73435	ENSG00000112414
-0.62602	0.73435	ENSG00000253626
-0.62596	0.73433	ENSG00000165091
0.62594	0.26568	ENSG00000007255
-0.6259	0.73431	ENSG00000173588
-0.62559	0.73421	ENSG00000115112
0.62549	0.26582	ENSG00000179603
0.62499	0.26599	ENSG00000143995
0.6249	0.26602	ENSG00000179674
0.62486	0.26603	ENSG00000129244
-0.62476	0.73394	ENSG00000131746

0.62455	0.26613	ENSG00000181016
0.62446	0.26616	ENSG00000143294
-0.62445	0.73384	ENSG00000141404
0.62436	0.26619	ENSG00000104894
0.62429	0.26622	ENSG00000136235
-0.62423	0.73376	ENSG00000167535
0.62406	0.26629	ENSG00000184304
0.62404	0.2663	ENSG00000163346
-0.62402	0.73369	ENSG00000124702
0.62399	0.26632	ENSG00000182795
0.62398	0.26632	ENSG00000133488
0.62391	0.26634	ENSG00000089692
0.62387	0.26636	ENSG00000198563
0.6237	0.26641	ENSG00000122912
-0.62354	0.73354	ENSG00000125835
0.62349	0.26648	ENSG00000170743
0.62349	0.26648	ENSG00000167588
-0.62343	0.7335	ENSG00000150433
0.62343	0.2665	ENSG00000196335
-0.6234	0.73349	ENSG00000115594
0.62332	0.26654	ENSG00000198677
0.62331	0.26654	ENSG00000196199
0.62313	0.2666	ENSG00000114867
-0.62312	0.7334	ENSG00000180613
0.62293	0.26666	ENSG00000270386
-0.62286	0.73331	ENSG00000125648
0.62268	0.26675	ENSG00000135426
-0.62264	0.73324	ENSG00000171160
-0.62262	0.73323	ENSG00000196110
-0.62256	0.73321	ENSG00000130803
-0.62254	0.73321	ENSG00000196449
0.62251	0.2668	ENSG00000197208
-0.6225	0.73319	ENSG00000172795
0.62245	0.26682	ENSG00000179242
-0.62239	0.73316	ENSG00000109381
-0.62238	0.73315	ENSG00000032389
0.62219	0.26691	ENSG00000159961
-0.62215	0.73308	ENSG00000169020
-0.62196	0.73302	ENSG00000091583
-0.62179	0.73296	ENSG00000134249
-0.62178	0.73296	ENSG00000197498
0.62175	0.26705	ENSG00000255470
-0.62162	0.7329	ENSG00000110651
-0.62147	0.73285	ENSG00000203786
0.62147	0.26714	ENSG00000198933
0.62129	0.2672	ENSG00000152092
0.62129	0.2672	ENSG00000179776
0.62129	0.26721	ENSG00000115648
0.62126	0.26722	ENSG00000183576
-0.62125	0.73278	ENSG00000198108
0.62121	0.26723	ENSG00000111490

-0.62092	0.73267	ENSG00000154118
0.62092	0.26733	ENSG00000183011
0.62081	0.26736	ENSG00000137513
-0.62076	0.73262	ENSG00000198225
-0.62076	0.73262	ENSG00000169372
0.62072	0.26739	ENSG00000125249
0.62053	0.26746	ENSG00000141200
0.62044	0.26748	ENSG00000100813
0.62039	0.2675	ENSG00000226104
0.62023	0.26755	ENSG00000146383
-0.62014	0.73242	ENSG00000185453
-0.62014	0.73242	ENSG00000083828
0.62008	0.2676	ENSG00000117543
0.62005	0.26761	ENSG00000198945
0.62001	0.26762	ENSG00000108187
0.62	0.26763	ENSG00000187024
-0.61988	0.73233	ENSG00000182500
-0.61979	0.7323	ENSG00000152467
0.61979	0.2677	ENSG00000158156
0.61979	0.2677	ENSG00000198522
-0.61967	0.73226	ENSG00000143954
0.61955	0.26778	ENSG00000139436
0.61949	0.2678	ENSG00000185100
-0.61922	0.73211	ENSG00000179195
-0.61922	0.73212	ENSG00000107651
0.61917	0.2679	ENSG00000064652
0.61913	0.26792	ENSG00000130713
-0.61909	0.73207	ENSG00000073803
-0.61889	0.73201	ENSG00000144357
0.61872	0.26805	ENSG00000176731
-0.61865	0.73192	ENSG00000183230
0.6186	0.26809	ENSG00000166984
0.61859	0.26809	ENSG00000251503
0.61859	0.26809	ENSG00000175279
0.61854	0.26811	ENSG00000073711
0.61844	0.26814	ENSG00000126787
0.6183	0.26819	ENSG00000163492
0.61819	0.26822	ENSG00000164077
-0.61792	0.73169	ENSG00000205592
0.61761	0.26842	ENSG00000088205
0.61752	0.26845	ENSG00000157911
-0.61741	0.73152	ENSG00000089009
-0.61738	0.73151	ENSG00000109787
-0.61736	0.7315	ENSG00000100583
0.61722	0.26855	ENSG00000104408
0.6172	0.26855	ENSG00000152672
-0.61713	0.73143	ENSG00000152192
-0.61691	0.73135	ENSG00000113522
0.61689	0.26865	ENSG00000187714
-0.61669	0.73128	ENSG00000104450
0.61664	0.26874	ENSG00000151413

-0.61657	0.73124	ENSG00000162852
-0.61649	0.73121	ENSG00000176293
-0.61644	0.7312	ENSG00000176563
-0.61639	0.73118	ENSG00000163249
0.61636	0.26883	ENSG00000119912
0.61634	0.26883	ENSG00000214866
0.6161	0.26891	ENSG00000159339
0.61593	0.26897	ENSG00000133740
0.6159	0.26898	ENSG00000164776
0.6158	0.26901	ENSG00000181291
-0.61578	0.73098	ENSG00000225119
0.61575	0.26903	ENSG00000150526
0.61565	0.26906	ENSG00000054392
0.61555	0.2691	ENSG00000105245
-0.61554	0.7309	ENSG00000139618
-0.61553	0.7309	ENSG00000116584
-0.61553	0.7309	ENSG00000166347
0.61548	0.26912	ENSG00000233276
-0.61544	0.73087	ENSG00000198870
0.61544	0.26913	ENSG00000163914
-0.6154	0.73085	ENSG00000033627
0.61535	0.26916	ENSG00000128311
-0.61534	0.73084	ENSG00000102699
-0.6153	0.73082	ENSG00000188130
-0.61529	0.73082	ENSG00000273025
0.61516	0.26923	ENSG00000132570
-0.61514	0.73077	ENSG00000136014
-0.61508	0.73075	ENSG00000198104
0.61504	0.26926	ENSG00000067057
-0.61495	0.73071	ENSG00000240972
0.61494	0.2693	ENSG00000176749
-0.61487	0.73068	ENSG00000125971
-0.61481	0.73066	ENSG00000179846
0.61474	0.26936	ENSG00000133808
0.61462	0.2694	ENSG00000127884
0.61456	0.26942	ENSG00000183579
-0.61455	0.73058	ENSG00000162670
-0.61454	0.73057	ENSG00000102678
0.6144	0.26947	ENSG00000182111
0.61428	0.26951	ENSG00000173610
0.61423	0.26953	ENSG00000214491
0.61413	0.26957	ENSG00000141052
-0.61396	0.73038	ENSG00000117226
0.6138	0.26967	ENSG00000128218
0.61366	0.26972	ENSG00000187123
-0.61365	0.73028	ENSG00000176406
-0.61362	0.73027	ENSG00000100592
-0.6134	0.73019	ENSG00000203685
-0.61331	0.73016	ENSG00000136935
0.61321	0.26987	ENSG00000198792
0.61305	0.26992	ENSG00000167508

-0.61304	0.73007	ENSG00000099917
0.61303	0.26993	ENSG00000168955
0.61281	0.27	ENSG00000203909
-0.61258	0.72992	ENSG00000092929
0.61218	0.27021	ENSG00000144668
0.61214	0.27022	ENSG00000235156
-0.61187	0.72969	ENSG00000170412
0.61187	0.27031	ENSG00000138180
-0.6118	0.72966	ENSG00000197584
0.61178	0.27034	ENSG00000100522
0.61169	0.27037	ENSG00000182899
0.61164	0.27039	ENSG00000181638
0.61146	0.27045	ENSG00000141441
0.61141	0.27047	ENSG00000231672
-0.61139	0.72953	ENSG00000172985
-0.61124	0.72948	ENSG00000270011
0.61118	0.27054	ENSG00000129965
0.61107	0.27058	ENSG00000168795
-0.61105	0.72942	ENSG00000161573
0.61103	0.27059	ENSG00000169006
0.61102	0.27059	ENSG00000184502
0.61082	0.27066	ENSG00000273079
-0.6108	0.72934	ENSG00000054356
0.6107	0.2707	ENSG00000185821
-0.61035	0.72919	ENSG00000205045
-0.61003	0.72908	ENSG00000183747
0.60992	0.27096	ENSG00000185947
-0.60982	0.72901	ENSG00000175449
0.60974	0.27102	ENSG00000163376
-0.60973	0.72898	ENSG00000164237
-0.60931	0.72884	ENSG00000215529
-0.60928	0.72883	ENSG00000258053
0.60914	0.27122	ENSG00000134109
-0.60907	0.72876	ENSG00000113845
-0.60905	0.72875	ENSG00000179958
0.60898	0.27127	ENSG00000147649
0.60895	0.27128	ENSG00000198728
0.60895	0.27128	ENSG00000152137
-0.60884	0.72869	ENSG00000188352
-0.6088	0.72867	ENSG00000198841
0.6088	0.27133	ENSG00000178163
0.60869	0.27136	ENSG00000100266
-0.60867	0.72863	ENSG00000166451
-0.60863	0.72862	ENSG00000158006
0.60861	0.27139	ENSG00000171163
0.60859	0.2714	ENSG00000120519
-0.60844	0.72855	ENSG00000110436
-0.6084	0.72854	ENSG00000118518
0.60834	0.27148	ENSG00000166452
-0.6083	0.72851	ENSG00000100478
-0.60781	0.72834	ENSG00000101276

0.60774	0.27168	ENSG00000104679
0.6077	0.27169	ENSG00000065057
0.6074	0.27179	ENSG00000160862
-0.60727	0.72816	ENSG00000172869
-0.60725	0.72816	ENSG00000136152
-0.60706	0.72809	ENSG00000115850
0.60705	0.27191	ENSG00000127586
0.60682	0.27198	ENSG00000160886
-0.6068	0.72801	ENSG00000141540
-0.6068	0.72801	ENSG00000099875
0.6066	0.27206	ENSG00000146049
-0.60623	0.72782	ENSG00000186197
-0.60617	0.7278	ENSG00000235631
0.60601	0.27226	ENSG00000176658
0.60596	0.27227	ENSG00000173230
-0.60595	0.72773	ENSG00000154309
0.60592	0.27228	ENSG00000181090
0.60585	0.27231	ENSG00000133247
0.60581	0.27232	ENSG00000183624
-0.60575	0.72766	ENSG00000137522
0.60572	0.27235	ENSG00000205084
-0.60558	0.7276	ENSG00000250799
-0.60555	0.72759	ENSG00000160741
0.60543	0.27245	ENSG00000237440
-0.6054	0.72754	ENSG00000204392
-0.60535	0.72753	ENSG00000163012
0.6052	0.27252	ENSG00000133216
-0.60518	0.72747	ENSG00000157837
-0.60511	0.72745	ENSG00000146267
0.6051	0.27256	ENSG00000169282
0.60507	0.27257	ENSG00000168803
-0.60498	0.7274	ENSG00000105486
-0.60492	0.72738	ENSG00000139687
-0.6049	0.72738	ENSG00000090530
0.6049	0.27262	ENSG00000254636
0.60472	0.27268	ENSG00000253787
0.60465	0.27271	ENSG00000170807
-0.60458	0.72727	ENSG00000168811
-0.60457	0.72727	ENSG00000257040
0.60453	0.27275	ENSG00000205710
0.60449	0.27276	ENSG00000174780
0.60446	0.27277	ENSG00000166046
0.60441	0.27278	ENSG00000166145
-0.60427	0.72717	ENSG00000112486
-0.60414	0.72712	ENSG00000095321
-0.60407	0.7271	ENSG00000177733
0.60405	0.2729	ENSG00000125458
-0.60404	0.72709	ENSG00000026103
-0.60395	0.72706	ENSG00000171552
-0.60374	0.72699	ENSG00000100154
-0.60372	0.72699	ENSG00000165076

-0.60369	0.72698	ENSG00000177291
0.60354	0.27307	ENSG00000111875
0.60349	0.27309	ENSG00000124780
-0.60347	0.7269	ENSG00000128989
-0.60346	0.7269	ENSG00000184979
0.60341	0.27312	ENSG00000171570
-0.60336	0.72687	ENSG00000176601
0.60334	0.27314	ENSG00000167580
0.60333	0.27315	ENSG00000139515
0.6031	0.27322	ENSG00000166090
0.603	0.27325	ENSG00000174111
0.60298	0.27326	ENSG00000095303
-0.60296	0.72673	ENSG00000090013
-0.60289	0.72671	ENSG00000131183
0.60289	0.27329	ENSG00000162302
-0.60286	0.7267	ENSG00000161533
-0.60282	0.72669	ENSG00000213416
-0.60276	0.72667	ENSG00000198517
0.6026	0.27339	ENSG00000135862
-0.60253	0.72659	ENSG00000122756
0.60222	0.27351	ENSG00000189067
0.60217	0.27353	ENSG00000105639
-0.60213	0.72646	ENSG00000156873
-0.60209	0.72644	ENSG00000148572
-0.60198	0.72641	ENSG00000187554
0.60197	0.2736	ENSG00000197506
0.60186	0.27363	ENSG00000104903
-0.60185	0.72636	ENSG00000135473
-0.60153	0.72626	ENSG00000175202
0.60151	0.27375	ENSG00000143443
0.60147	0.27376	ENSG00000183662
0.6014	0.27379	ENSG00000138722
0.60136	0.2738	ENSG00000166173
0.60135	0.2738	ENSG00000182870
0.60135	0.2738	ENSG00000076662
-0.60127	0.72617	ENSG00000008394
-0.60087	0.72604	ENSG00000153339
0.60083	0.27398	ENSG00000053900
0.60064	0.27404	ENSG00000048392
-0.60054	0.72593	ENSG00000115317
0.6005	0.27409	ENSG00000198546
-0.60049	0.72591	ENSG00000063245
-0.60047	0.7259	ENSG00000188100
0.60045	0.2741	ENSG00000139508
0.6002	0.27419	ENSG00000112149
-0.60018	0.72581	ENSG00000107938
0.60014	0.27421	ENSG00000188559
0.60009	0.27422	ENSG00000162975
-0.59988	0.72571	ENSG00000113558
-0.59988	0.72571	ENSG00000236104
-0.59972	0.72565	ENSG00000243130

0.5996	0.27439	ENSG00000119004
0.59948	0.27443	ENSG00000163874
-0.5993	0.72551	ENSG00000198440
0.59925	0.2745	ENSG00000114316
0.59907	0.27456	ENSG00000122705
0.59903	0.27457	ENSG00000130540
-0.59891	0.72538	ENSG00000168002
0.59883	0.27464	ENSG00000213047
-0.59875	0.72533	ENSG00000120925
0.59874	0.27467	ENSG00000232774
-0.59869	0.72531	ENSG00000175727
0.59869	0.27469	ENSG00000197428
0.5986	0.27472	ENSG00000145362
-0.59843	0.72522	ENSG00000212935
0.59818	0.27486	ENSG00000223547
0.59811	0.27488	ENSG00000168216
-0.59788	0.72504	ENSG00000136051
0.59787	0.27496	ENSG00000203734
-0.59776	0.725	ENSG00000135622
0.59775	0.275	ENSG00000172940
-0.59766	0.72497	ENSG00000203740
0.59764	0.27504	ENSG00000068793
0.59737	0.27513	ENSG00000189139
0.59733	0.27514	ENSG00000019169
-0.59729	0.72484	ENSG00000139405
0.59728	0.27516	ENSG00000169955
-0.59706	0.72477	ENSG00000116745
0.59689	0.27529	ENSG00000166342
0.59686	0.2753	ENSG00000159445
0.59684	0.27531	ENSG00000267976
-0.59682	0.72469	ENSG00000152382
0.59667	0.27536	ENSG00000181458
0.59663	0.27538	ENSG00000105383
-0.59651	0.72458	ENSG00000153012
-0.59651	0.72458	ENSG00000138294
0.59649	0.27542	ENSG00000163472
-0.59633	0.72452	ENSG00000269605
0.59627	0.2755	ENSG00000213390
-0.59625	0.7245	ENSG00000007908
-0.59609	0.72444	ENSG00000066248
0.59608	0.27556	ENSG00000145242
0.59598	0.27559	ENSG00000115561
0.5959	0.27562	ENSG00000010818
-0.59588	0.72437	ENSG00000253148
-0.59585	0.72436	ENSG00000183833
0.59579	0.27566	ENSG00000169967
0.59568	0.2757	ENSG00000114491
-0.59565	0.7243	ENSG00000114770
0.59545	0.27577	ENSG00000157870
-0.59544	0.72422	ENSG00000172717
0.59535	0.27581	ENSG00000170091

0.5953	0.27582	ENSG00000145908
0.5953	0.27582	ENSG00000187764
-0.59515	0.72413	ENSG00000149948
-0.59504	0.72409	ENSG00000156966
0.59503	0.27591	ENSG00000123999
-0.59492	0.72405	ENSG00000138152
-0.59491	0.72405	ENSG00000112116
-0.59484	0.72403	ENSG00000133106
-0.5948	0.72401	ENSG00000173369
-0.59472	0.72399	ENSG00000198830
0.59454	0.27608	ENSG00000144406
0.59446	0.2761	ENSG00000186198
-0.59443	0.72389	ENSG00000183775
-0.59442	0.72389	ENSG00000134215
-0.59439	0.72388	ENSG00000110108
0.59438	0.27613	ENSG00000076706
-0.59436	0.72386	ENSG00000196266
-0.5943	0.72385	ENSG00000145861
0.59406	0.27624	ENSG00000137936
-0.59388	0.7237	ENSG00000131037
0.59387	0.2763	ENSG00000169385
0.59381	0.27632	ENSG00000157303
-0.59358	0.7236	ENSG00000135899
0.59351	0.27642	ENSG00000187783
0.59349	0.27643	ENSG00000105856
-0.59348	0.72357	ENSG00000109670
-0.59344	0.72356	ENSG00000121864
0.5934	0.27646	ENSG00000114098
-0.59339	0.72354	ENSG00000100413
0.59333	0.27648	ENSG00000148814
-0.59329	0.72351	ENSG00000140577
-0.59324	0.72349	ENSG00000170142
-0.59304	0.72342	ENSG00000176720
0.59287	0.27663	ENSG00000268400
0.59286	0.27664	ENSG00000165138
0.59285	0.27664	ENSG00000196387
0.59284	0.27665	ENSG00000163728
-0.59283	0.72335	ENSG00000204006
-0.59273	0.72332	ENSG00000204619
-0.59269	0.7233	ENSG00000213185
0.59258	0.27673	ENSG00000149571
0.59258	0.27673	ENSG00000183828
-0.59252	0.72325	ENSG00000104951
0.59252	0.27675	ENSG00000177414
-0.59238	0.7232	ENSG00000162851
-0.59234	0.72319	ENSG00000075826
-0.59231	0.72318	ENSG00000134824
-0.5923	0.72317	ENSG00000153140
0.59184	0.27698	ENSG00000121897
0.59175	0.27701	ENSG00000183323
0.59172	0.27702	ENSG00000175520

-0.59149	0.7229	ENSG00000214140
0.59122	0.27719	ENSG00000105261
-0.59118	0.7228	ENSG00000162734
0.5911	0.27723	ENSG00000198855
-0.59099	0.72274	ENSG00000204950
-0.59091	0.72271	ENSG00000066933
0.5909	0.27729	ENSG00000243440
0.59081	0.27732	ENSG00000164296
0.59078	0.27733	ENSG00000137822
-0.59051	0.72258	ENSG00000165516
0.5905	0.27743	ENSG00000213413
0.59047	0.27744	ENSG00000153827
-0.59028	0.7225	ENSG00000198366
0.58982	0.27766	ENSG00000173406
0.58975	0.27768	ENSG00000088298
-0.58962	0.72228	ENSG00000113361
-0.5896	0.72227	ENSG00000033867
0.58954	0.27775	ENSG00000053702
0.58951	0.27776	ENSG00000196482
0.58931	0.27783	ENSG00000184432
0.58924	0.27785	ENSG00000120053
0.58923	0.27785	ENSG00000095951
-0.58916	0.72212	ENSG00000154153
0.58915	0.27788	ENSG00000258659
0.58915	0.27788	ENSG00000182704
-0.58909	0.7221	ENSG00000203993
-0.58903	0.72208	ENSG00000176624
0.58895	0.27795	ENSG00000138641
0.58892	0.27796	ENSG00000101438
-0.5888	0.722	ENSG00000101474
0.58879	0.278	ENSG00000148826
-0.58866	0.72195	ENSG00000037757
-0.58857	0.72192	ENSG00000155052
0.58853	0.27809	ENSG00000237412
0.58851	0.2781	ENSG00000198169
-0.5885	0.7219	ENSG00000170777
0.58846	0.27811	ENSG00000135643
-0.58835	0.72185	ENSG00000159423
0.58821	0.27819	ENSG00000204188
-0.58818	0.72179	ENSG00000083520
-0.58814	0.72178	ENSG00000257335
-0.58802	0.72174	ENSG00000262633
0.58795	0.27828	ENSG00000198785
0.58773	0.27836	ENSG00000179941
-0.5876	0.7216	ENSG00000197763
0.58751	0.27843	ENSG00000104856
0.58737	0.27848	ENSG00000168676
0.58729	0.2785	ENSG00000106331
-0.58714	0.72144	ENSG00000137817
0.58702	0.2786	ENSG00000076258
0.58682	0.27866	ENSG00000125877

-0.58675	0.72131	ENSG00000110446
0.58648	0.27878	ENSG00000163565
0.58643	0.27879	ENSG00000249884
-0.58638	0.72119	ENSG00000170043
-0.58629	0.72116	ENSG00000165071
-0.58603	0.72107	ENSG00000188629
0.58599	0.27894	ENSG00000221931
-0.58581	0.721	ENSG00000012504
-0.5858	0.72099	ENSG00000181541
0.5858	0.279	ENSG00000162881
0.58576	0.27902	ENSG00000121314
-0.58572	0.72097	ENSG00000138411
0.58557	0.27908	ENSG00000138768
-0.58555	0.72091	ENSG00000142544
0.5855	0.2791	ENSG00000083123
-0.58534	0.72084	ENSG00000159164
-0.58507	0.72075	ENSG00000178187
0.58503	0.27926	ENSG00000063169
-0.585	0.72073	ENSG00000144644
-0.5849	0.72069	ENSG00000110237
-0.58485	0.72067	ENSG00000166206
-0.58479	0.72065	ENSG00000153292
-0.58478	0.72065	ENSG00000188505
-0.58471	0.72063	ENSG00000215440
0.58463	0.2794	ENSG00000119915
0.5844	0.27947	ENSG00000164329
-0.58435	0.72051	ENSG00000173391
0.58421	0.27954	ENSG00000124212
0.5842	0.27954	ENSG00000138395
-0.58404	0.7204	ENSG00000047346
0.58387	0.27965	ENSG00000265590
-0.5838	0.72032	ENSG00000069696
-0.58368	0.72028	ENSG00000144214
-0.58358	0.72025	ENSG00000206532
0.58341	0.27981	ENSG00000140464
0.58341	0.27981	ENSG00000141232
0.58339	0.27981	ENSG00000006659
-0.58332	0.72016	ENSG00000124570
0.5832	0.27988	ENSG00000112312
0.58288	0.27999	ENSG00000153989
0.58273	0.28004	ENSG00000134452
0.58273	0.28004	ENSG00000165659
-0.58257	0.71991	ENSG00000136518
0.58254	0.2801	ENSG00000243943
-0.58242	0.71986	ENSG00000248511
0.58235	0.28016	ENSG00000093217
0.58235	0.28017	ENSG00000169271
-0.58228	0.71981	ENSG00000226288
-0.58209	0.71975	ENSG00000053770
0.58202	0.28027	ENSG00000244694
0.58191	0.28031	ENSG00000249034

-0.58152	0.71955	ENSG00000165802
-0.58152	0.71956	ENSG00000163873
-0.58151	0.71955	ENSG00000197168
-0.58149	0.71954	ENSG00000250571
-0.58148	0.71954	ENSG00000115687
-0.58141	0.71952	ENSG00000174521
-0.5814	0.71951	ENSG00000196866
-0.58136	0.7195	ENSG00000198331
0.58134	0.28051	ENSG00000139644
-0.58118	0.71944	ENSG00000268133
0.58104	0.28061	ENSG00000161640
0.5809	0.28065	ENSG00000257767
-0.58076	0.7193	ENSG00000184647
0.58074	0.28071	ENSG00000127129
0.58066	0.28074	ENSG00000173653
0.58059	0.28076	ENSG00000105617
0.58057	0.28076	ENSG00000211448
0.58055	0.28077	ENSG00000124275
0.58045	0.28081	ENSG00000176971
-0.58043	0.71919	ENSG00000232070
0.58036	0.28084	ENSG00000235568
0.58034	0.28084	ENSG00000130222
-0.58032	0.71915	ENSG00000170791
0.58031	0.28085	ENSG00000267909
-0.58026	0.71913	ENSG00000247121
-0.58026	0.71913	ENSG00000165816
-0.58026	0.71913	ENSG00000156968
-0.58015	0.71909	ENSG00000186458
-0.58013	0.71909	ENSG00000117174
0.57995	0.28097	ENSG00000205832
0.57975	0.28104	ENSG00000182447
0.57971	0.28106	ENSG00000255292
0.57932	0.28119	ENSG00000141741
0.57931	0.28119	ENSG00000134996
0.57925	0.28121	ENSG00000167065
0.57906	0.28127	ENSG00000154479
-0.57902	0.71871	ENSG00000182158
-0.57856	0.71856	ENSG00000072415
0.57855	0.28145	ENSG00000183647
0.57844	0.28148	ENSG00000103254
0.57836	0.28151	ENSG00000100991
-0.57834	0.71848	ENSG00000117133
-0.57833	0.71848	ENSG00000250722
-0.57825	0.71845	ENSG00000128578
0.57825	0.28155	ENSG00000068024
-0.57816	0.71842	ENSG00000167861
0.57807	0.28161	ENSG00000008853
-0.578	0.71837	ENSG00000253857
-0.57795	0.71835	ENSG00000077463
0.57784	0.28169	ENSG00000204859
0.57774	0.28172	ENSG00000072786

0.57768	0.28174	ENSG00000165752
0.57768	0.28174	ENSG00000131759
-0.57749	0.7182	ENSG00000078124
-0.57733	0.71814	ENSG00000137491
0.57726	0.28188	ENSG00000030582
-0.57718	0.71809	ENSG00000103226
0.57717	0.28191	ENSG00000130159
-0.57704	0.71804	ENSG00000198046
-0.57701	0.71803	ENSG00000173546
0.57695	0.28199	ENSG00000204183
-0.57694	0.71801	ENSG00000175029
-0.57687	0.71799	ENSG00000102763
0.57687	0.28201	ENSG00000164483
-0.57673	0.71794	ENSG00000135966
0.5767	0.28207	ENSG00000125450
-0.57663	0.71791	ENSG00000158528
0.5766	0.2821	ENSG00000087299
0.57642	0.28216	ENSG00000185000
-0.57641	0.71783	ENSG00000088876
0.57632	0.2822	ENSG00000197903
-0.57615	0.71774	ENSG00000072062
0.57609	0.28228	ENSG00000118922
0.57599	0.28231	ENSG00000141959
-0.57597	0.71768	ENSG00000178233
0.57597	0.28232	ENSG00000148516
0.57566	0.28242	ENSG00000135045
-0.57563	0.71757	ENSG00000143614
-0.57563	0.71757	ENSG00000164118
-0.57556	0.71754	ENSG00000213965
0.57554	0.28246	ENSG00000099984
-0.57553	0.71753	ENSG00000170379
0.57545	0.28249	ENSG00000163527
0.57532	0.28254	ENSG00000109016
-0.57519	0.71742	ENSG00000077380
0.57519	0.28258	ENSG00000082269
-0.57511	0.71739	ENSG00000163463
0.57509	0.28262	ENSG00000183260
-0.57499	0.71735	ENSG00000151849
0.57498	0.28265	ENSG00000171243
0.57481	0.28271	ENSG00000154124
-0.57478	0.71728	ENSG00000185974
0.57458	0.28279	ENSG00000100219
0.57439	0.28285	ENSG00000106123
0.57435	0.28286	ENSG00000140090
-0.5742	0.71708	ENSG00000188227
-0.57398	0.71701	ENSG00000196591
0.57396	0.283	ENSG00000124145
-0.57393	0.71699	ENSG00000124249
-0.57379	0.71695	ENSG00000197557
-0.57378	0.71694	ENSG00000076242
0.57371	0.28308	ENSG00000197150

-0.57368	0.71691	ENSG00000221864
0.57366	0.2831	ENSG00000260259
0.57349	0.28316	ENSG00000011132
0.57342	0.28318	ENSG00000183034
-0.57313	0.71672	ENSG00000174950
-0.57309	0.71671	ENSG00000254469
-0.57301	0.71668	ENSG00000117090
0.57301	0.28332	ENSG00000058866
-0.57286	0.71663	ENSG00000127947
0.57263	0.28345	ENSG00000115705
-0.57249	0.7165	ENSG00000197008
0.57241	0.28352	ENSG00000159714
-0.57223	0.71642	ENSG00000197136
0.57221	0.28359	ENSG00000164506
0.57207	0.28364	ENSG00000175229
0.57196	0.28368	ENSG00000264187
0.57195	0.28368	ENSG00000111186
0.5716	0.2838	ENSG00000087301
-0.57156	0.71619	ENSG00000116171
0.57156	0.28381	ENSG00000138468
0.57155	0.28381	ENSG00000122696
0.5714	0.28386	ENSG00000134852
0.57123	0.28392	ENSG00000142552
0.57118	0.28394	ENSG00000168496
-0.57114	0.71605	ENSG00000188785
0.57112	0.28396	ENSG00000077232
-0.5711	0.71603	ENSG00000107485
-0.57096	0.71599	ENSG00000165685
-0.57083	0.71594	ENSG00000115310
-0.57065	0.71588	ENSG00000023734
0.57057	0.28415	ENSG00000105176
0.57052	0.28416	ENSG00000160801
-0.57051	0.71583	ENSG00000165879
-0.57045	0.71581	ENSG00000167081
0.57038	0.28421	ENSG00000165185
0.57035	0.28422	ENSG00000181031
-0.5703	0.71576	ENSG00000180900
-0.57025	0.71575	ENSG00000020633
-0.57007	0.71568	ENSG00000154582
0.57006	0.28432	ENSG00000148358
0.57004	0.28433	ENSG00000128606
-0.57003	0.71567	ENSG00000173335
0.56991	0.28437	ENSG00000120440
-0.56984	0.71561	ENSG00000261603
0.56978	0.28441	ENSG00000088247
0.56971	0.28444	ENSG00000095970
-0.56961	0.71553	ENSG00000189350
0.56937	0.28455	ENSG00000145642
-0.56936	0.71545	ENSG00000233502
-0.56928	0.71542	ENSG00000166415
0.56928	0.28458	ENSG00000139131

-0.56926	0.71541	ENSG00000134744
0.56923	0.2846	ENSG00000181035
-0.56906	0.71534	ENSG00000108861
-0.56905	0.71534	ENSG00000116120
0.56905	0.28466	ENSG00000213523
-0.56894	0.7153	ENSG00000149609
-0.56889	0.71528	ENSG00000160209
0.56886	0.28473	ENSG00000122644
-0.56882	0.71526	ENSG00000130856
0.56872	0.28477	ENSG00000253350
0.56867	0.28479	ENSG00000145934
0.56854	0.28483	ENSG00000107140
-0.56853	0.71516	ENSG00000106804
0.56846	0.28486	ENSG00000204301
-0.56842	0.71512	ENSG00000185482
0.56834	0.2849	ENSG00000163806
0.56832	0.28491	ENSG00000118420
-0.56826	0.71507	ENSG00000080819
0.56817	0.28496	ENSG00000143514
-0.56815	0.71503	ENSG00000085276
0.5681	0.28498	ENSG00000197157
-0.56804	0.715	ENSG00000086570
-0.56797	0.71497	ENSG00000149016
-0.56796	0.71497	ENSG00000176422
0.56795	0.28503	ENSG00000271698
-0.56794	0.71496	ENSG00000162600
-0.56793	0.71496	ENSG00000236669
-0.56793	0.71496	ENSG00000171631
-0.56786	0.71493	ENSG00000249860
0.56784	0.28507	ENSG00000189430
0.56773	0.28511	ENSG00000164038
0.5677	0.28512	ENSG00000165650
-0.5676	0.71485	ENSG00000137574
0.5676	0.28515	ENSG00000184897
-0.56732	0.71475	ENSG00000156103
0.56732	0.28525	ENSG00000149308
-0.56727	0.71474	ENSG00000180357
0.56718	0.28529	ENSG00000188010
0.56712	0.28532	ENSG00000132432
-0.56705	0.71466	ENSG00000108256
-0.56704	0.71466	ENSG00000113924
0.56701	0.28535	ENSG00000198799
-0.5666	0.71451	ENSG00000113649
-0.56657	0.7145	ENSG00000238244
-0.56656	0.71449	ENSG00000206549
0.56656	0.28551	ENSG00000136848
-0.56645	0.71446	ENSG00000057935
-0.56633	0.71441	ENSG00000086848
0.56613	0.28565	ENSG00000213694
0.56612	0.28566	ENSG00000204979
-0.56583	0.71425	ENSG00000197852

0.56573	0.28579	ENSG00000189403
0.5657	0.2858	ENSG00000197233
-0.56561	0.71417	ENSG00000167874
-0.56561	0.71417	ENSG00000239998
0.56544	0.28589	ENSG00000188386
0.56539	0.28591	ENSG00000248099
-0.56534	0.71408	ENSG00000104824
-0.56532	0.71407	ENSG00000269375
0.56525	0.28595	ENSG00000151929
0.56513	0.28599	ENSG00000160214
0.56509	0.286	ENSG00000164252
-0.56498	0.71396	ENSG00000108294
0.56493	0.28606	ENSG00000125434
0.56479	0.28611	ENSG00000147905
-0.56469	0.71386	ENSG00000165410
0.56464	0.28616	ENSG00000129467
0.56449	0.28621	ENSG00000165733
-0.56448	0.71379	ENSG00000157999
0.56442	0.28624	ENSG00000198793
-0.56427	0.71372	ENSG00000164729
-0.56426	0.71371	ENSG00000137486
-0.56424	0.7137	ENSG00000243244
0.56418	0.28632	ENSG00000212743
-0.56412	0.71366	ENSG00000156860
-0.56388	0.71358	ENSG00000185869
0.56359	0.28652	ENSG00000120458
0.56352	0.28654	ENSG00000173457
-0.56351	0.71346	ENSG00000168078
-0.56348	0.71345	ENSG00000234284
-0.5634	0.71342	ENSG00000228727
0.56334	0.2866	ENSG00000182196
-0.56333	0.7134	ENSG00000164056
-0.56319	0.71335	ENSG00000168826
0.5629	0.28675	ENSG00000105298
0.56286	0.28676	ENSG00000132676
0.56279	0.28679	ENSG00000103018
0.56263	0.28684	ENSG00000134758
-0.56254	0.71312	ENSG00000176979
-0.56242	0.71308	ENSG00000167566
0.56242	0.28691	ENSG00000100426
-0.56235	0.71306	ENSG00000204740
0.56196	0.28707	ENSG00000068079
-0.56189	0.71291	ENSG00000127955
0.56176	0.28714	ENSG00000156471
0.56167	0.28717	ENSG00000100796
0.56166	0.28717	ENSG00000145022
0.56136	0.28727	ENSG00000113141
-0.56127	0.71269	ENSG00000072135
0.56112	0.28736	ENSG00000141497
-0.56099	0.7126	ENSG00000178226
0.56099	0.2874	ENSG00000123505

-0.56069	0.7125	ENSG00000151692
0.56065	0.28752	ENSG00000187616
0.56059	0.28754	ENSG00000150347
-0.56056	0.71245	ENSG00000131355
-0.56054	0.71244	ENSG00000178295
-0.56051	0.71244	ENSG00000198961
-0.56045	0.71242	ENSG00000131773
0.56041	0.2876	ENSG00000100029
-0.56032	0.71237	ENSG00000138495
-0.56031	0.71237	ENSG00000119844
-0.56025	0.71235	ENSG00000256683
-0.56012	0.7123	ENSG00000147804
0.56012	0.2877	ENSG00000120675
-0.55989	0.71222	ENSG00000105085
0.55988	0.28778	ENSG00000153832
0.55982	0.2878	ENSG00000181903
-0.55965	0.71214	ENSG00000112062
-0.55962	0.71213	ENSG00000155016
-0.55962	0.71213	ENSG00000181939
-0.55957	0.71212	ENSG00000164542
0.55951	0.28791	ENSG00000151092
0.55942	0.28794	ENSG00000127507
0.55941	0.28794	ENSG00000078618
-0.55934	0.71203	ENSG00000222004
-0.55916	0.71197	ENSG00000103044
0.55913	0.28804	ENSG00000175354
0.5591	0.28805	ENSG00000249709
-0.55902	0.71193	ENSG00000120907
-0.55897	0.71191	ENSG00000184845
-0.55878	0.71184	ENSG00000138449
-0.55878	0.71184	ENSG00000204228
0.55878	0.28816	ENSG00000147852
0.55869	0.28819	ENSG00000241563
0.55868	0.28819	ENSG00000175073
0.5586	0.28822	ENSG00000164398
-0.55857	0.71177	ENSG00000169683
0.55855	0.28823	ENSG00000115194
-0.55851	0.71175	ENSG00000144278
-0.55846	0.71173	ENSG00000140259
-0.5584	0.71171	ENSG00000216921
-0.55829	0.71168	ENSG00000156983
0.5582	0.28835	ENSG00000138002
-0.55808	0.7116	ENSG00000162714
-0.55786	0.71153	ENSG00000106617
0.55768	0.28853	ENSG00000109320
0.55754	0.28858	ENSG00000164221
0.55747	0.2886	ENSG00000119514
0.55746	0.28861	ENSG00000186212
0.55746	0.28861	ENSG00000110700
0.55745	0.28861	ENSG00000081181
0.55719	0.2887	ENSG00000132429

0.55708	0.28874	ENSG00000055332
0.55694	0.28878	ENSG00000176884
0.55691	0.2888	ENSG00000074657
-0.55689	0.71112	ENSG00000188710
0.55686	0.28881	ENSG00000125449
-0.55682	0.71117	ENSG00000177076
0.55677	0.28884	ENSG00000100485
0.55672	0.28886	ENSG00000187550
-0.5567	0.71113	ENSG00000168461
-0.55668	0.71113	ENSG00000128590
-0.55668	0.71113	ENSG00000105373
0.55661	0.2889	ENSG00000145741
0.5566	0.2889	ENSG00000169583
-0.55654	0.71108	ENSG00000204928
-0.55642	0.71104	ENSG00000166816
-0.55639	0.71103	ENSG00000165757
-0.55634	0.71101	ENSG00000221961
-0.55616	0.71095	ENSG00000113441
0.55614	0.28906	ENSG00000172840
0.5561	0.28907	ENSG00000116212
0.55602	0.2891	ENSG00000118113
-0.55599	0.71089	ENSG00000173281
-0.55589	0.71086	ENSG00000119041
0.55583	0.28916	ENSG00000138658
-0.55568	0.71079	ENSG00000178752
0.55564	0.28923	ENSG00000105701
-0.55561	0.71076	ENSG00000171817
0.5553	0.28935	ENSG00000049192
-0.55526	0.71064	ENSG00000220201
-0.55523	0.71063	ENSG00000100448
-0.55522	0.71063	ENSG00000173699
0.55521	0.28938	ENSG00000162543
0.55516	0.28939	ENSG00000198028
0.55513	0.2894	ENSG00000188820
-0.55504	0.71056	ENSG00000132694
0.55491	0.28948	ENSG00000105523
-0.55481	0.71049	ENSG00000175806
-0.5548	0.71049	ENSG00000123268
0.5548	0.28952	ENSG00000188368
-0.55472	0.71046	ENSG00000109255
0.55471	0.28955	ENSG00000066422
-0.55455	0.7104	ENSG00000206102
0.55455	0.2896	ENSG00000164897
-0.5545	0.71038	ENSG00000120539
-0.55431	0.71032	ENSG00000110203
-0.55427	0.7103	ENSG00000176476
-0.55422	0.71029	ENSG00000100196
-0.55415	0.71026	ENSG00000172116
0.55412	0.28975	ENSG00000047457
0.55392	0.28982	ENSG00000189375
-0.55387	0.71017	ENSG00000261667

-0.55383	0.71015	ENSG00000116748
-0.55375	0.71012	ENSG00000105223
-0.55361	0.71008	ENSG00000135222
0.55359	0.28993	ENSG00000104369
-0.55346	0.71003	ENSG00000162551
-0.5534	0.71	ENSG00000087074
-0.55337	0.70999	ENSG00000160113
0.55337	0.29001	ENSG00000083817
-0.55335	0.70999	ENSG00000118898
0.55335	0.29001	ENSG00000163449
0.55333	0.29002	ENSG00000196605
-0.55332	0.70998	ENSG00000128342
0.55332	0.29002	ENSG00000197555
-0.55328	0.70996	ENSG00000091181
0.55318	0.29007	ENSG00000113108
0.55262	0.29026	ENSG00000165474
-0.55256	0.70972	ENSG00000137100
0.55247	0.29031	ENSG00000239713
0.55239	0.29034	ENSG00000140320
0.55235	0.29035	ENSG00000171208
0.552	0.29047	ENSG00000100483
0.55182	0.29053	ENSG00000177380
0.55181	0.29054	ENSG00000268936
0.55169	0.29058	ENSG00000189195
0.55155	0.29063	ENSG00000082126
0.55129	0.29072	ENSG00000186684
0.55127	0.29072	ENSG00000031003
0.55125	0.29073	ENSG00000145990
0.55125	0.29073	ENSG00000110429
0.55119	0.29075	ENSG00000120049
0.5511	0.29078	ENSG00000127366
-0.55099	0.70918	ENSG00000203772
0.55094	0.29084	ENSG00000139719
-0.55093	0.70916	ENSG00000248383
-0.55093	0.70916	ENSG00000180479
0.55088	0.29086	ENSG00000167699
-0.55087	0.70914	ENSG00000138400
-0.5508	0.70911	ENSG00000254706
0.5508	0.29089	ENSG00000196620
-0.55079	0.70911	ENSG00000117151
0.55076	0.2909	ENSG00000086200
-0.55061	0.70905	ENSG00000152782
0.55037	0.29103	ENSG00000175582
0.5501	0.29113	ENSG00000168077
0.55009	0.29113	ENSG00000171484
-0.55004	0.70886	ENSG00000134884
-0.55002	0.70885	ENSG00000116747
-0.55001	0.70884	ENSG00000162989
-0.55	0.70884	ENSG00000204946
0.54987	0.2912	ENSG00000134183
-0.54985	0.70879	ENSG00000255012

-0.54984	0.70879	ENSG00000106278
-0.5498	0.70877	ENSG00000005108
0.54976	0.29124	ENSG00000266956
0.54942	0.29136	ENSG00000187855
-0.54937	0.70862	ENSG00000125409
0.54925	0.29142	ENSG00000153179
0.54919	0.29144	ENSG00000114841
0.54882	0.29157	ENSG00000170681
0.54872	0.2916	ENSG00000123297
-0.54869	0.70839	ENSG00000178096
0.54864	0.29163	ENSG00000133805
-0.54853	0.70833	ENSG00000036054
0.54852	0.29167	ENSG00000250173
0.54846	0.29169	ENSG00000124523
-0.54841	0.7083	ENSG00000136098
-0.54825	0.70824	ENSG00000237441
0.54816	0.29179	ENSG00000130876
0.54813	0.2918	ENSG00000206432
0.5481	0.29181	ENSG00000168925
0.54803	0.29184	ENSG00000161642
0.54798	0.29185	ENSG00000179119
0.5479	0.29188	ENSG00000176879
-0.54774	0.70806	ENSG00000137962
-0.54774	0.70806	ENSG00000256771
0.54773	0.29194	ENSG00000168092
0.54765	0.29197	ENSG00000166897
-0.54762	0.70802	ENSG00000160145
0.54761	0.29198	ENSG00000256235
0.54756	0.292	ENSG00000129255
-0.54752	0.70799	ENSG00000112818
0.54751	0.29202	ENSG00000141574
0.54746	0.29203	ENSG00000137270
0.54729	0.29209	ENSG00000143416
0.54719	0.29212	ENSG00000269636
0.54718	0.29213	ENSG00000143919
-0.5471	0.70785	ENSG00000112306
0.54692	0.29222	ENSG00000169410
-0.54688	0.70777	ENSG00000204161
0.54674	0.29228	ENSG00000036828
0.54673	0.29228	ENSG00000198816
0.54654	0.29235	ENSG00000132405
-0.54652	0.70764	ENSG00000259529
0.54645	0.29238	ENSG00000150477
-0.54633	0.70758	ENSG00000172469
-0.5463	0.70757	ENSG00000090376
-0.5463	0.70757	ENSG00000268750
-0.5463	0.70757	ENSG00000269343
0.54629	0.29243	ENSG00000138080
0.54629	0.29243	ENSG00000157483
0.54629	0.29243	ENSG00000255524
-0.54626	0.70756	ENSG00000178690

0.54626	0.29244	ENSG00000083857
-0.5462	0.70754	ENSG00000179988
0.54618	0.29247	ENSG00000151882
-0.54615	0.70752	ENSG00000124493
-0.54608	0.70749	ENSG00000161544
0.54599	0.29254	ENSG00000226761
0.54594	0.29255	ENSG00000175505
0.54559	0.29267	ENSG00000156928
-0.54556	0.70731	ENSG00000173638
-0.54525	0.70721	ENSG00000185009
0.54498	0.29288	ENSG00000120054
0.54496	0.29289	ENSG00000110047
0.54484	0.29293	ENSG00000111358
0.54481	0.29294	ENSG00000197887
0.54457	0.29302	ENSG00000138430
0.54453	0.29304	ENSG00000187959
0.54434	0.2931	ENSG00000151650
-0.54433	0.70689	ENSG00000258947
0.54425	0.29313	ENSG00000165949
0.5442	0.29315	ENSG00000180016
-0.54413	0.70682	ENSG00000170876
-0.54407	0.7068	ENSG00000095015
0.544	0.29322	ENSG00000131871
0.54397	0.29323	ENSG00000204291
0.54393	0.29325	ENSG00000133641
0.54392	0.29325	ENSG00000121900
-0.5439	0.70674	ENSG00000165533
0.5438	0.29329	ENSG00000104848
-0.54376	0.7067	ENSG00000163950
-0.54373	0.70669	ENSG00000108654
0.54363	0.29335	ENSG00000197128
0.54355	0.29337	ENSG00000047578
0.54353	0.29338	ENSG00000184160
0.54351	0.29339	ENSG00000065308
0.54347	0.2934	ENSG00000203760
0.54345	0.29341	ENSG00000165526
-0.54339	0.70657	ENSG00000174099
-0.54338	0.70657	ENSG00000182264
0.54338	0.29343	ENSG00000179774
-0.54326	0.70652	ENSG00000175536
-0.54321	0.70651	ENSG00000163808
-0.5431	0.70647	ENSG00000091039
0.54308	0.29354	ENSG00000188611
-0.54305	0.70645	ENSG00000224130
0.54302	0.29356	ENSG00000221978
-0.54297	0.70643	ENSG00000143621
0.54297	0.29357	ENSG00000171532
0.54281	0.29363	ENSG00000221995
-0.54276	0.70635	ENSG00000126003
0.54276	0.29365	ENSG00000153165
-0.54275	0.70635	ENSG00000101282

-0.54272	0.70634	ENSG00000166192
0.54271	0.29367	ENSG00000213859
-0.5427	0.70633	ENSG00000119906
0.54254	0.29372	ENSG00000002933
0.54252	0.29373	ENSG00000164265
-0.54246	0.70625	ENSG00000139180
-0.54243	0.70624	ENSG00000048707
-0.54243	0.70624	ENSG00000197724
-0.54233	0.7062	ENSG00000272968
0.54218	0.29385	ENSG00000133328
0.54215	0.29386	ENSG00000163625
-0.54191	0.70606	ENSG00000066697
0.54159	0.29405	ENSG00000161509
-0.54147	0.70591	ENSG00000121005
0.54145	0.2941	ENSG00000254585
-0.54137	0.70587	ENSG00000070061
-0.54116	0.7058	ENSG00000230610
0.54105	0.29424	ENSG00000179588
-0.54098	0.70574	ENSG00000124875
-0.54096	0.70573	ENSG00000161179
0.54092	0.29428	ENSG00000135338
-0.54082	0.70568	ENSG00000124935
0.54082	0.29432	ENSG00000172733
0.54077	0.29433	ENSG00000197694
-0.54062	0.70562	ENSG00000206561
0.54036	0.29447	ENSG00000169688
0.54033	0.29448	ENSG00000184786
-0.54025	0.70549	ENSG00000183283
-0.54022	0.70548	ENSG00000100599
0.54013	0.29455	ENSG00000187323
0.54006	0.29458	ENSG00000157045
0.54006	0.29458	ENSG00000182240
0.54	0.2946	ENSG00000151729
0.53995	0.29461	ENSG00000171992
0.53995	0.29462	ENSG00000091009
0.53988	0.29464	ENSG00000140694
-0.53986	0.70535	ENSG00000164104
-0.5397	0.7053	ENSG00000183287
-0.53965	0.70528	ENSG00000111863
0.53964	0.29472	ENSG00000100242
-0.53962	0.70527	ENSG00000259642
0.5395	0.29477	ENSG00000162385
-0.53937	0.70518	ENSG00000213203
0.53936	0.29482	ENSG00000159399
0.53922	0.29487	ENSG00000185344
0.539	0.29494	ENSG00000110717
0.53895	0.29496	ENSG00000117620
0.5389	0.29498	ENSG00000255529
0.53887	0.29499	ENSG00000168594
-0.53885	0.705	ENSG00000111886
0.53883	0.295	ENSG00000164066

0.53876	0.29503	ENSG00000152240
-0.53874	0.70497	ENSG00000118495
0.53872	0.29504	ENSG00000104490
0.53868	0.29506	ENSG00000205018
0.53864	0.29507	ENSG00000111796
-0.53852	0.70489	ENSG00000135480
-0.53844	0.70486	ENSG00000151014
-0.53838	0.70484	ENSG00000100116
-0.53832	0.70482	ENSG00000074603
0.53815	0.29524	ENSG00000188906
-0.53814	0.70476	ENSG00000100441
-0.53813	0.70476	ENSG00000149516
0.53804	0.29528	ENSG00000149927
0.53802	0.29528	ENSG00000040608
-0.53799	0.70471	ENSG00000163827
0.53797	0.2953	ENSG00000137404
0.53797	0.2953	ENSG00000174282
0.53758	0.29543	ENSG00000197901
-0.53754	0.70455	ENSG00000166831
0.53737	0.29551	ENSG00000181192
0.53723	0.29556	ENSG00000165325
0.53719	0.29557	ENSG00000125375
0.53714	0.29558	ENSG00000069764
0.53713	0.29559	ENSG00000256861
-0.53703	0.70438	ENSG00000065154
-0.53699	0.70436	ENSG00000254415
0.53679	0.2957	ENSG00000109814
-0.53675	0.70428	ENSG00000146535
0.53673	0.29573	ENSG00000174938
0.53665	0.29575	ENSG00000160401
-0.53659	0.70422	ENSG00000100353
-0.53652	0.7042	ENSG00000167414
0.5364	0.29584	ENSG00000111602
0.53636	0.29586	ENSG00000112238
-0.53628	0.70412	ENSG00000269169
-0.53601	0.70402	ENSG00000187533
0.53594	0.296	ENSG00000065325
-0.53592	0.70399	ENSG00000166167
-0.53575	0.70393	ENSG00000128918
0.53575	0.29607	ENSG00000215790
0.5357	0.29608	ENSG00000114503
-0.53566	0.7039	ENSG00000128052
-0.53565	0.7039	ENSG00000089063
-0.53543	0.70382	ENSG00000155974
-0.53531	0.70378	ENSG00000204227
0.53531	0.29622	ENSG00000167202
0.5353	0.29622	ENSG00000186395
0.53526	0.29624	ENSG00000055044
0.5352	0.29626	ENSG00000129103
0.53519	0.29626	ENSG00000137757
0.53512	0.29628	ENSG00000114988

0.53505	0.29631	ENSG00000172179
0.53503	0.29631	ENSG00000123545
0.53498	0.29633	ENSG00000204604
-0.53495	0.70366	ENSG00000057593
-0.53489	0.70364	ENSG00000221855
-0.53489	0.70364	ENSG00000198768
0.53479	0.2964	ENSG00000071054
-0.53467	0.70356	ENSG00000039560
-0.53454	0.70352	ENSG00000117009
0.53446	0.29651	ENSG00000198298
0.5344	0.29653	ENSG00000162267
0.53425	0.29659	ENSG00000169224
0.53417	0.29661	ENSG00000131019
0.53409	0.29664	ENSG00000156219
-0.53407	0.70335	ENSG00000155229
0.53401	0.29667	ENSG00000167766
0.53398	0.29668	ENSG00000159202
-0.53395	0.70331	ENSG00000156413
-0.53384	0.70327	ENSG00000269699
0.53384	0.29673	ENSG00000272617
-0.53382	0.70327	ENSG00000101665
-0.53374	0.70324	ENSG00000054116
-0.53372	0.70323	ENSG00000002746
-0.53366	0.70321	ENSG00000129152
0.53352	0.29684	ENSG00000131650
0.53348	0.29685	ENSG00000125462
-0.53335	0.70311	ENSG00000174083
-0.53334	0.7031	ENSG00000169085
0.53334	0.2969	ENSG00000268412
-0.53321	0.70306	ENSG00000061918
0.53302	0.29701	ENSG00000229453
0.53296	0.29703	ENSG00000135766
-0.53294	0.70296	ENSG00000104814
0.53274	0.29711	ENSG00000109536
-0.53263	0.70285	ENSG00000249049
0.53257	0.29717	ENSG00000169474
0.53256	0.29717	ENSG00000261611
0.53244	0.29721	ENSG00000204704
0.53228	0.29727	ENSG00000183092
-0.53209	0.70267	ENSG00000133985
0.53205	0.29734	ENSG00000141385
0.53202	0.29736	ENSG00000228368
0.53202	0.29736	ENSG00000171298
-0.53186	0.70259	ENSG00000162105
0.53186	0.29741	ENSG00000133874
0.53176	0.29745	ENSG00000203857
0.53167	0.29748	ENSG00000162949
0.53153	0.29753	ENSG00000272305
0.53151	0.29753	ENSG00000108947
0.53147	0.29755	ENSG00000179344
0.53144	0.29756	ENSG00000105656

0.53143	0.29756	ENSG00000152254
-0.53123	0.70237	ENSG00000085063
-0.53112	0.70233	ENSG00000099992
-0.53075	0.7022	ENSG00000253293
-0.53072	0.70219	ENSG00000117528
-0.53066	0.70217	ENSG00000184056
-0.53064	0.70217	ENSG00000132256
-0.53063	0.70216	ENSG00000204882
0.53056	0.29786	ENSG00000205268
0.5305	0.29788	ENSG00000177868
0.53041	0.29791	ENSG00000163093
0.53041	0.29791	ENSG00000251569
-0.53008	0.70197	ENSG00000159363
-0.53007	0.70197	ENSG00000204356
0.52995	0.29807	ENSG00000112902
-0.5299	0.70191	ENSG00000012124
0.52986	0.2981	ENSG00000120262
-0.52983	0.70189	ENSG00000100288
-0.5298	0.70187	ENSG00000163755
-0.52979	0.70187	ENSG00000206559
0.52965	0.29818	ENSG00000198250
-0.52964	0.70182	ENSG00000183496
-0.5296	0.70181	ENSG00000130700
0.52933	0.29829	ENSG00000158062
-0.52931	0.7017	ENSG00000151718
0.5293	0.2983	ENSG00000162601
0.52915	0.29835	ENSG00000146350
-0.52912	0.70164	ENSG00000179010
-0.52899	0.70159	ENSG00000196715
-0.52898	0.70159	ENSG00000140488
-0.52897	0.70159	ENSG00000168418
0.52894	0.29842	ENSG00000119718
-0.52878	0.70152	ENSG00000161911
0.52871	0.2985	ENSG00000114812
-0.5287	0.70149	ENSG00000164331
-0.52843	0.7014	ENSG00000166363
-0.52832	0.70136	ENSG00000222031
-0.52798	0.70124	ENSG00000127989
0.52793	0.29877	ENSG00000165409
-0.52785	0.7012	ENSG00000213402
-0.52777	0.70117	ENSG00000107581
-0.52759	0.70111	ENSG00000177542
-0.52757	0.7011	ENSG00000175938
-0.52734	0.70102	ENSG00000082512
-0.52719	0.70097	ENSG00000138336
0.52709	0.29907	ENSG00000177669
-0.52706	0.70092	ENSG00000124602
-0.52699	0.7009	ENSG00000186925
0.52691	0.29913	ENSG00000131059
-0.52684	0.70085	ENSG00000233538
0.52664	0.29922	ENSG00000070831

0.52652	0.29926	ENSG00000155093
-0.52649	0.70073	ENSG00000163162
-0.52647	0.70072	ENSG00000123472
0.52642	0.2993	ENSG00000124496
0.52642	0.2993	ENSG00000111364
0.52603	0.29943	ENSG00000185666
0.52602	0.29944	ENSG00000137343
-0.52593	0.70053	ENSG00000133048
0.52584	0.2995	ENSG00000111144
-0.52581	0.70049	ENSG00000114120
-0.52571	0.70045	ENSG00000135828
-0.52566	0.70044	ENSG00000147437
-0.52561	0.70042	ENSG00000104825
0.52548	0.29962	ENSG00000049247
0.52544	0.29964	ENSG00000140009
-0.52541	0.70035	ENSG00000172977
0.52533	0.29968	ENSG00000119919
-0.52531	0.70032	ENSG00000186666
0.5253	0.29969	ENSG00000168071
-0.52519	0.70028	ENSG00000111224
-0.52516	0.70026	ENSG00000258529
0.52515	0.29974	ENSG00000129514
-0.52511	0.70025	ENSG00000177694
-0.52509	0.70024	ENSG00000116260
-0.52507	0.70023	ENSG00000040341
-0.52497	0.7002	ENSG00000203778
-0.52488	0.70017	ENSG00000166439
-0.52463	0.70008	ENSG00000120693
-0.52453	0.70005	ENSG00000187147
0.52453	0.29995	ENSG00000078142
-0.52452	0.70004	ENSG00000260456
-0.52449	0.70003	ENSG00000140995
-0.52435	0.69998	ENSG00000242028
0.52428	0.30004	ENSG00000101558
-0.52426	0.69995	ENSG00000111652
0.52409	0.30011	ENSG00000122958
0.52405	0.30012	ENSG00000065559
-0.52399	0.69986	ENSG00000168724
-0.52399	0.69986	ENSG00000180525
0.52397	0.30015	ENSG00000185818
0.5238	0.30021	ENSG00000174417
-0.52375	0.69977	ENSG00000249115
0.52372	0.30024	ENSG00000135324
-0.52368	0.69975	ENSG00000132622
0.52362	0.30027	ENSG00000143537
0.52356	0.30029	ENSG00000039123
-0.52343	0.69966	ENSG00000122034
0.52337	0.30036	ENSG00000246223
-0.52314	0.69956	ENSG00000172819
-0.52296	0.6995	ENSG00000064393
0.52294	0.30051	ENSG00000101076

-0.5229	0.69948	ENSG00000244242
-0.52288	0.69947	ENSG00000060718
-0.52288	0.69947	ENSG00000162738
0.52285	0.30054	ENSG00000164011
0.52278	0.30056	ENSG00000244588
0.52273	0.30058	ENSG00000105879
0.5226	0.30063	ENSG00000141295
0.52244	0.30068	ENSG00000026652
-0.52239	0.6993	ENSG00000244094
-0.52217	0.69922	ENSG00000151148
0.52217	0.30078	ENSG00000068305
0.52211	0.3008	ENSG00000129315
0.52206	0.30081	ENSG00000259009
0.52198	0.30084	ENSG00000204267
0.52192	0.30086	ENSG00000143442
0.52186	0.30088	ENSG00000156269
0.52177	0.30091	ENSG00000133195
-0.52168	0.69905	ENSG00000101109
-0.52157	0.69901	ENSG00000176381
0.52155	0.30099	ENSG00000163161
0.52153	0.301	ENSG00000140323
-0.52148	0.69898	ENSG00000219016
0.52143	0.30103	ENSG00000172457
-0.52133	0.69893	ENSG00000164744
-0.52133	0.69893	ENSG00000159322
0.52126	0.30109	ENSG00000172167
0.52122	0.30111	ENSG00000138757
-0.5212	0.69889	ENSG00000259159
-0.5212	0.69889	ENSG00000223953
-0.5212	0.69889	ENSG00000235718
0.52118	0.30112	ENSG00000197217
-0.52105	0.69884	ENSG00000106927
0.52105	0.30117	ENSG00000141503
-0.52098	0.69881	ENSG00000126545
0.52094	0.30121	ENSG00000109475
0.52077	0.30126	ENSG00000131152
-0.5207	0.69871	ENSG00000188868
-0.52064	0.69869	ENSG00000087510
0.52043	0.30138	ENSG00000182334
-0.52042	0.69861	ENSG00000121895
0.52042	0.30139	ENSG00000112249
0.52041	0.30139	ENSG00000213639
-0.52027	0.69856	ENSG00000271793
0.52015	0.30148	ENSG00000140367
0.52014	0.30148	ENSG00000240505
-0.52013	0.69851	ENSG00000158220
0.52003	0.30152	ENSG00000106125
-0.51985	0.69842	ENSG00000117632
-0.51962	0.69833	ENSG00000002726
0.51926	0.30179	ENSG00000268788
0.51923	0.3018	ENSG00000179091

-0.51918	0.69818	ENSG00000197106
0.51917	0.30182	ENSG00000178607
-0.51913	0.69816	ENSG00000158545
-0.5191	0.69815	ENSG00000109272
0.51882	0.30194	ENSG00000170927
-0.5188	0.69805	ENSG00000176402
0.5188	0.30195	ENSG00000105258
0.51864	0.30201	ENSG00000136854
-0.51856	0.69797	ENSG00000111783
0.5185	0.30206	ENSG00000204300
-0.51847	0.69794	ENSG00000151176
0.51846	0.30207	ENSG00000188677
0.51844	0.30208	ENSG00000134769
0.51843	0.30208	ENSG00000117560
0.51843	0.30208	ENSG00000015153
0.51824	0.30214	ENSG00000176253
0.51821	0.30215	ENSG00000148843
-0.51819	0.69784	ENSG00000126067
0.51819	0.30216	ENSG00000075131
-0.51816	0.69783	ENSG00000175398
0.51812	0.30219	ENSG00000173914
0.51811	0.30219	ENSG00000105974
0.51804	0.30221	ENSG00000100450
-0.51802	0.69778	ENSG00000166825
-0.51792	0.69774	ENSG00000106631
-0.51785	0.69772	ENSG00000171681
-0.51774	0.69768	ENSG00000120699
0.51767	0.30234	ENSG00000197822
-0.51764	0.69765	ENSG00000205209
-0.51763	0.69764	ENSG00000143771
0.51751	0.3024	ENSG00000136463
0.51747	0.30241	ENSG00000179163
-0.51744	0.69757	ENSG00000129749
-0.51741	0.69756	ENSG00000267127
-0.51726	0.69751	ENSG00000176177
-0.51707	0.69745	ENSG00000131469
-0.51707	0.69745	ENSG00000268107
-0.51702	0.69743	ENSG00000128731
0.51698	0.30258	ENSG00000167524
0.51694	0.3026	ENSG00000180386
-0.51691	0.69739	ENSG00000105428
-0.51669	0.69731	ENSG00000081177
-0.51666	0.6973	ENSG00000168310
0.5166	0.30272	ENSG00000181788
-0.51658	0.69728	ENSG00000100271
0.51649	0.30276	ENSG00000177108
0.5164	0.30279	ENSG00000149187
-0.51636	0.6972	ENSG00000152455
-0.5163	0.69718	ENSG00000182132
0.51625	0.30284	ENSG00000131779
0.51624	0.30284	ENSG00000197372

0.51618	0.30286	ENSG00000131097
0.51607	0.3029	ENSG00000160200
0.51602	0.30292	ENSG00000167653
0.51599	0.30293	ENSG00000258227
0.51598	0.30294	ENSG00000188888
-0.51594	0.69705	ENSG00000114346
-0.51585	0.69702	ENSG00000188508
0.51585	0.30298	ENSG00000126653
-0.51582	0.69701	ENSG00000136147
-0.51561	0.69694	ENSG00000114279
-0.51525	0.69681	ENSG00000197409
-0.51521	0.6968	ENSG00000262302
-0.51517	0.69678	ENSG00000075336
0.51516	0.30322	ENSG00000086065
0.51505	0.30326	ENSG00000163810
-0.51502	0.69673	ENSG00000198805
0.51491	0.30331	ENSG00000138347
0.51489	0.30331	ENSG00000183762
0.51465	0.3034	ENSG00000140839
0.5146	0.30342	ENSG00000119048
0.51458	0.30342	ENSG00000135744
-0.51447	0.69654	ENSG00000214530
0.51444	0.30347	ENSG00000186838
-0.51433	0.69649	ENSG00000173611
-0.51424	0.69646	ENSG00000010610
0.51423	0.30355	ENSG00000197121
0.51408	0.3036	ENSG00000125257
0.51405	0.30361	ENSG00000170779
-0.51393	0.69635	ENSG00000130635
0.51389	0.30366	ENSG00000144504
0.5138	0.30369	ENSG00000099822
-0.51378	0.6963	ENSG00000237651
-0.51378	0.6963	ENSG00000109685
-0.51376	0.69629	ENSG00000177684
0.51363	0.30376	ENSG00000233539
-0.51361	0.69624	ENSG00000196081
-0.51352	0.69621	ENSG00000170571
-0.51352	0.69621	ENSG00000214414
0.51338	0.30384	ENSG00000140853
0.51333	0.30386	ENSG00000104695
-0.51331	0.69613	ENSG00000174607
-0.51309	0.69606	ENSG00000109424
-0.51308	0.69605	ENSG00000133317
-0.51308	0.69605	ENSG00000255472
-0.51298	0.69602	ENSG00000125780
-0.51289	0.69599	ENSG00000170271
0.51289	0.30401	ENSG00000044524
-0.51274	0.69593	ENSG00000140534
0.51259	0.30412	ENSG00000105708
-0.51253	0.69586	ENSG00000163491
-0.51247	0.69584	ENSG00000007545

0.51232	0.30421	ENSG00000150594
-0.51223	0.69576	ENSG00000132517
-0.51222	0.69575	ENSG00000105397
-0.51204	0.69569	ENSG00000134313
0.51203	0.30431	ENSG00000134324
0.51183	0.30438	ENSG00000186187
0.51159	0.30447	ENSG00000168260
-0.51157	0.69552	ENSG00000089248
-0.51157	0.69552	ENSG00000227450
-0.51157	0.69553	ENSG00000170175
-0.51152	0.69551	ENSG00000165119
-0.51151	0.6955	ENSG00000152102
-0.51124	0.69541	ENSG00000106348
-0.5112	0.6954	ENSG00000007216
0.51115	0.30462	ENSG00000156508
0.51101	0.30467	ENSG00000165861
0.51085	0.30473	ENSG00000163564
0.51073	0.30477	ENSG00000189057
0.51072	0.30477	ENSG00000149639
0.51069	0.30478	ENSG00000163701
0.51064	0.3048	ENSG00000171815
0.51061	0.30481	ENSG00000008018
0.51053	0.30484	ENSG00000206530
0.51053	0.30484	ENSG00000186924
-0.51046	0.69514	ENSG00000102882
-0.5104	0.69512	ENSG00000108852
-0.51033	0.69509	ENSG00000135211
-0.51033	0.69509	ENSG00000205810
0.51031	0.30492	ENSG00000144410
-0.5102	0.69504	ENSG00000127125
0.51017	0.30497	ENSG00000123411
-0.51007	0.695	ENSG00000176024
-0.50994	0.69495	ENSG00000268085
0.50977	0.30511	ENSG00000168288
0.50974	0.30512	ENSG00000187456
0.5095	0.3052	ENSG00000112308
-0.50944	0.69478	ENSG00000159885
0.50936	0.30525	ENSG00000164610
0.50935	0.30525	ENSG00000113263
0.50932	0.30526	ENSG00000101441
0.50932	0.30527	ENSG00000066629
0.50914	0.30533	ENSG00000142168
-0.50912	0.69466	ENSG00000170425
-0.50911	0.69466	ENSG00000115091
-0.50907	0.69465	ENSG00000253958
-0.50904	0.69464	ENSG00000176182
-0.50902	0.69463	ENSG00000205147
-0.50902	0.69463	ENSG00000213988
0.50891	0.30541	ENSG00000163636
0.50883	0.30543	ENSG00000115592
0.50875	0.30547	ENSG00000008513

-0.5087	0.69452	ENSG00000198755
-0.5084	0.69441	ENSG00000122367
-0.50835	0.69439	ENSG00000197016
-0.50829	0.69438	ENSG00000158715
0.50824	0.30564	ENSG00000187510
-0.50822	0.69435	ENSG00000137501
-0.50804	0.69429	ENSG00000106538
-0.50784	0.69422	ENSG00000119723
0.50784	0.30578	ENSG00000241106
0.50775	0.30582	ENSG00000101290
-0.50769	0.69417	ENSG00000091527
-0.50767	0.69416	ENSG00000166863
0.50753	0.30589	ENSG00000129245
0.50742	0.30593	ENSG00000075234
-0.50737	0.69405	ENSG00000268173
-0.50729	0.69402	ENSG00000107672
0.50726	0.30599	ENSG00000185532
-0.50721	0.694	ENSG00000183765
0.50719	0.30601	ENSG00000124214
-0.50716	0.69398	ENSG00000132846
-0.50715	0.69398	ENSG00000003436
0.50715	0.30603	ENSG00000235169
0.50703	0.30607	ENSG00000145545
0.50679	0.30615	ENSG00000179914
0.50679	0.30615	ENSG00000033170
0.50679	0.30615	ENSG00000170099
-0.50675	0.69383	ENSG00000183527
-0.50673	0.69383	ENSG00000161677
-0.50659	0.69378	ENSG00000128965
-0.50653	0.69376	ENSG00000175899
-0.5065	0.69375	ENSG00000112195
-0.50646	0.69373	ENSG00000010030
-0.50627	0.69367	ENSG00000172464
-0.50614	0.69362	ENSG00000181322
-0.50613	0.69362	ENSG00000131653
-0.50603	0.69358	ENSG00000196792
-0.50598	0.69356	ENSG00000170473
-0.5058	0.6935	ENSG00000176435
-0.50576	0.69349	ENSG00000171262
-0.50566	0.69345	ENSG00000255098
0.50535	0.30666	ENSG00000138798
-0.50516	0.69328	ENSG00000178726
0.50505	0.30676	ENSG00000170962
0.50494	0.3068	ENSG00000167470
-0.50488	0.69318	ENSG00000069248
-0.50469	0.69311	ENSG00000158246
0.50452	0.30695	ENSG00000198818
-0.50451	0.69305	ENSG00000118507
-0.50442	0.69302	ENSG00000141068
0.50434	0.30701	ENSG00000148343
0.5042	0.30706	ENSG00000159556

-0.50412	0.69291	ENSG00000250317
-0.50412	0.69291	ENSG00000165568
-0.50402	0.69288	ENSG00000185681
0.50391	0.30716	ENSG00000184047
0.50388	0.30717	ENSG00000196361
0.50373	0.30722	ENSG00000144837
0.50353	0.3073	ENSG00000165899
0.50351	0.3073	ENSG00000110074
-0.50304	0.69253	ENSG00000130427
-0.50302	0.69252	ENSG00000079101
-0.50302	0.69253	ENSG00000106665
0.50293	0.30751	ENSG00000181773
-0.50289	0.69248	ENSG00000141753
0.50288	0.30752	ENSG00000204316
0.50283	0.30754	ENSG00000171174
0.50278	0.30756	ENSG00000235478
-0.50277	0.69244	ENSG00000171862
0.50275	0.30757	ENSG00000115241
0.50263	0.30761	ENSG00000117408
-0.50262	0.69238	ENSG00000126749
-0.50256	0.69236	ENSG00000253506
-0.50237	0.6923	ENSG00000130299
-0.50226	0.69226	ENSG00000169738
0.50218	0.30777	ENSG00000249679
-0.50212	0.69221	ENSG00000018699
-0.50206	0.69219	ENSG00000178425
-0.50199	0.69216	ENSG00000248801
0.50197	0.30785	ENSG00000072071
-0.50182	0.6921	ENSG00000121207
0.50164	0.30796	ENSG00000158113
-0.50163	0.69204	ENSG00000263264
0.50159	0.30798	ENSG00000104689
0.50153	0.308	ENSG00000157869
-0.50143	0.69197	ENSG00000136541
-0.50135	0.69194	ENSG00000175274
0.50133	0.30807	ENSG00000006459
0.50131	0.30808	ENSG00000183876
0.50123	0.30811	ENSG00000175311
0.50119	0.30812	ENSG00000102910
0.50108	0.30816	ENSG00000184108
-0.50097	0.69181	ENSG00000135414
-0.50086	0.69176	ENSG00000111218
-0.50064	0.69169	ENSG00000122862
-0.5006	0.69167	ENSG00000197622
-0.5006	0.69167	ENSG00000140374
0.50047	0.30837	ENSG00000095383
-0.50034	0.69158	ENSG00000145916
0.50025	0.30845	ENSG00000184945
0.50011	0.3085	ENSG00000198860
-0.50002	0.69147	ENSG00000182718
-0.49994	0.69144	ENSG00000203666

-0.49976	0.69138	ENSG00000152705
0.49975	0.30862	ENSG00000097033
0.49955	0.30869	ENSG00000130035
0.49954	0.3087	ENSG00000129946
0.49942	0.30874	ENSG00000002834
-0.49929	0.69121	ENSG00000159398
0.49927	0.30879	ENSG00000104472
0.49919	0.30882	ENSG00000104154
-0.49911	0.69115	ENSG00000113763
-0.49907	0.69113	ENSG00000241878
0.49906	0.30887	ENSG00000073008
0.49891	0.30892	ENSG00000197885
0.49888	0.30893	ENSG00000064961
0.49882	0.30895	ENSG00000144655
-0.49878	0.69103	ENSG00000109667
-0.49876	0.69102	ENSG00000144810
-0.49875	0.69102	ENSG00000015413
-0.49874	0.69102	ENSG00000197445
0.49866	0.30901	ENSG00000117868
0.49863	0.30902	ENSG00000144671
-0.49849	0.69093	ENSG00000116704
0.49846	0.30908	ENSG00000105948
-0.49829	0.69086	ENSG00000080293
0.49827	0.30915	ENSG00000054796
-0.49819	0.69082	ENSG00000073111
-0.49809	0.69079	ENSG00000131373
0.49799	0.30925	ENSG00000105202
0.49794	0.30926	ENSG00000165029
0.49794	0.30926	ENSG00000108306
-0.49782	0.69069	ENSG00000167004
0.49759	0.30938	ENSG00000113734
0.49753	0.30941	ENSG00000272162
0.49748	0.30942	ENSG00000111275
-0.49743	0.69056	ENSG00000139354
0.49728	0.3095	ENSG00000169047
0.49725	0.30951	ENSG00000072682
0.4971	0.30956	ENSG00000164363
0.49703	0.30958	ENSG00000213906
0.49678	0.30967	ENSG00000128805
-0.49677	0.69033	ENSG00000143479
-0.49667	0.69029	ENSG00000166068
-0.49662	0.69027	ENSG00000175356
-0.4966	0.69027	ENSG00000178852
0.49654	0.30976	ENSG00000090674
0.49648	0.30978	ENSG00000004660
-0.49637	0.69018	ENSG00000104671
0.49637	0.30982	ENSG00000113272
-0.49632	0.69017	ENSG00000221837
-0.49611	0.69009	ENSG00000245317
0.496	0.30995	ENSG00000198894
-0.49595	0.69004	ENSG00000165102

0.49594	0.30997	ENSG00000136240
0.49592	0.30998	ENSG00000162817
-0.49589	0.69001	ENSG00000041515
-0.49571	0.68995	ENSG00000136870
-0.4957	0.68995	ENSG00000135837
0.4957	0.31005	ENSG00000110484
0.49565	0.31007	ENSG00000174374
-0.49562	0.68992	ENSG00000140403
-0.49525	0.68979	ENSG00000085382
0.49513	0.31025	ENSG00000111704
0.49509	0.31027	ENSG00000107864
-0.49505	0.68972	ENSG00000102554
0.49477	0.31038	ENSG00000017427
-0.49431	0.68946	ENSG00000160111
0.4943	0.31055	ENSG00000130300
0.49423	0.31057	ENSG00000185838
0.49421	0.31058	ENSG00000151136
0.49416	0.3106	ENSG00000125522
0.49405	0.31063	ENSG00000112183
-0.49379	0.68927	ENSG00000100410
-0.49368	0.68923	ENSG00000111305
-0.49355	0.68919	ENSG00000164088
0.4935	0.31083	ENSG00000109762
0.49344	0.31085	ENSG00000136205
0.49339	0.31087	ENSG00000112319
-0.49336	0.68912	ENSG00000162039
0.49332	0.31089	ENSG00000085231
-0.49331	0.6891	ENSG00000112851
-0.49329	0.6891	ENSG00000169507
0.49321	0.31093	ENSG00000081019
0.49315	0.31095	ENSG00000143452
0.49314	0.31096	ENSG00000168079
-0.49309	0.68903	ENSG00000223638
0.49304	0.31099	ENSG00000170608
-0.49293	0.68897	ENSG00000143450
-0.4929	0.68896	ENSG00000172023
0.49278	0.31109	ENSG00000178980
-0.49277	0.68891	ENSG00000077254
0.49266	0.31113	ENSG00000188124
-0.49254	0.68883	ENSG00000177303
-0.49249	0.68881	ENSG00000161653
-0.49248	0.68881	ENSG00000197816
-0.49243	0.68879	ENSG00000163424
-0.49237	0.68877	ENSG00000162946
0.49234	0.31124	ENSG00000142875
0.4923	0.31125	ENSG00000171161
-0.49228	0.68874	ENSG00000254470
-0.49227	0.68874	ENSG00000231031
0.49217	0.31113	ENSG00000115641
-0.49214	0.68869	ENSG00000178075
0.49206	0.31134	ENSG00000243137

0.49201	0.31136	ENSG00000134343
-0.49199	0.68864	ENSG00000111725
-0.49198	0.68863	ENSG00000186105
-0.49194	0.68862	ENSG00000171812
-0.49192	0.68861	ENSG00000179295
0.4919	0.31139	ENSG00000011600
-0.49189	0.6886	ENSG00000184110
-0.49188	0.6886	ENSG00000170464
0.49187	0.31141	ENSG00000101126
-0.49174	0.68855	ENSG00000166169
-0.49171	0.68854	ENSG00000136696
-0.49169	0.68853	ENSG00000266118
-0.49156	0.68849	ENSG00000175634
-0.49146	0.68845	ENSG00000131730
-0.49144	0.68844	ENSG00000078668
0.49142	0.31156	ENSG00000158966
-0.49139	0.68842	ENSG00000100346
0.49131	0.3116	ENSG00000182901
0.49125	0.31162	ENSG00000164089
0.49124	0.31163	ENSG00000150281
0.49121	0.31164	ENSG00000184887
0.49119	0.31164	ENSG00000254870
-0.49115	0.68834	ENSG00000115539
-0.49107	0.68831	ENSG00000143624
0.49106	0.31169	ENSG00000168229
0.49103	0.3117	ENSG00000206052
-0.491	0.68829	ENSG00000073282
-0.491	0.68829	ENSG00000105642
0.49087	0.31176	ENSG00000269693
0.49082	0.31178	ENSG00000180475
0.49075	0.3118	ENSG00000273088
0.49074	0.31181	ENSG00000214305
0.49062	0.31185	ENSG00000165502
0.49056	0.31187	ENSG00000090061
-0.49052	0.68812	ENSG00000177764
-0.49029	0.68803	ENSG00000178035
-0.49019	0.688	ENSG00000197982
0.49011	0.31203	ENSG00000164342
-0.48999	0.68793	ENSG00000116670
-0.48998	0.68793	ENSG00000082497
0.48996	0.31208	ENSG00000116161
0.48994	0.31209	ENSG00000132740
0.4898	0.31214	ENSG00000107185
-0.48973	0.68784	ENSG00000170310
0.48962	0.3122	ENSG00000269510
0.48951	0.31224	ENSG00000153786
0.48948	0.31225	ENSG00000131446
-0.48947	0.68775	ENSG00000170745
-0.48943	0.68773	ENSG00000178691
-0.48941	0.68772	ENSG00000257028
0.48938	0.31229	ENSG00000172350

-0.48929	0.68768	ENSG00000189332
-0.48925	0.68767	ENSG00000176920
-0.48918	0.68764	ENSG00000221954
-0.48906	0.6876	ENSG00000176083
0.48882	0.31248	ENSG00000144647
-0.4888	0.68751	ENSG00000078081
0.48878	0.3125	ENSG00000271605
0.48853	0.31259	ENSG00000172888
0.48838	0.31264	ENSG00000164591
0.48836	0.31265	ENSG00000171791
0.48832	0.31266	ENSG00000157350
-0.48831	0.68733	ENSG00000198589
0.4883	0.31267	ENSG00000170312
-0.48823	0.6873	ENSG00000153930
-0.48801	0.68723	ENSG00000272921
-0.48799	0.68722	ENSG00000152223
-0.48797	0.68721	ENSG00000085415
-0.4879	0.68719	ENSG00000134121
0.48776	0.31286	ENSG00000226180
-0.48762	0.68709	ENSG00000134532
-0.48759	0.68708	ENSG00000172568
0.48751	0.31295	ENSG00000196678
-0.48741	0.68702	ENSG00000255221
0.4874	0.31299	ENSG00000222005
-0.48732	0.68698	ENSG00000134058
0.48729	0.31303	ENSG00000114739
-0.48722	0.68695	ENSG00000007923
-0.4872	0.68694	ENSG00000188846
-0.48719	0.68694	ENSG00000196415
0.48719	0.31306	ENSG00000143179
0.48718	0.31306	ENSG00000106305
-0.48717	0.68693	ENSG00000240654
-0.48716	0.68693	ENSG00000089847
-0.48692	0.68684	ENSG00000155066
-0.48684	0.68681	ENSG00000185926
-0.48678	0.68679	ENSG00000060709
0.48677	0.31321	ENSG00000182791
-0.48675	0.68678	ENSG00000137857
0.48641	0.31334	ENSG00000259399
-0.48638	0.68665	ENSG00000204899
-0.48621	0.68659	ENSG00000134001
0.48621	0.31341	ENSG00000125247
0.48619	0.31342	ENSG00000103549
0.48615	0.31343	ENSG00000135298
0.48579	0.31356	ENSG00000140740
-0.48578	0.68644	ENSG00000112096
0.48572	0.31358	ENSG00000138433
0.48567	0.3136	ENSG00000160294
0.48563	0.31361	ENSG00000213551
0.48559	0.31363	ENSG00000216490
0.48557	0.31364	ENSG00000014216

-0.48551	0.68634	ENSG00000090932
-0.48547	0.68633	ENSG00000122194
-0.48538	0.6863	ENSG00000134538
-0.48533	0.68628	ENSG00000172139
0.48513	0.31379	ENSG00000101203
0.48496	0.31385	ENSG00000172020
-0.48483	0.6861	ENSG00000182670
0.48481	0.31391	ENSG00000172197
-0.48473	0.68607	ENSG00000100429
-0.48454	0.686	ENSG00000089154
-0.48452	0.68599	ENSG00000114767
0.48436	0.31406	ENSG00000163751
0.48434	0.31407	ENSG00000080854
0.48424	0.31411	ENSG00000260092
0.48422	0.31412	ENSG00000204283
-0.48412	0.68585	ENSG00000162006
-0.48412	0.68585	ENSG00000154914
0.48402	0.31419	ENSG00000005844
0.484	0.31419	ENSG00000129625
-0.48387	0.68576	ENSG00000160999
0.48368	0.31431	ENSG00000136807
-0.4836	0.68566	ENSG00000150753
-0.4836	0.68567	ENSG00000091732
0.48356	0.31435	ENSG00000106178
0.48354	0.31436	ENSG00000143811
-0.48351	0.68563	ENSG00000189292
0.4835	0.31437	ENSG00000135443
0.48347	0.31438	ENSG00000116809
-0.48343	0.6856	ENSG00000119283
-0.48338	0.68559	ENSG00000007541
0.48335	0.31442	ENSG00000088992
0.48321	0.31447	ENSG00000214706
0.48321	0.31447	ENSG00000010319
0.48321	0.31447	ENSG00000183307
-0.4832	0.68552	ENSG00000163832
-0.48313	0.6855	ENSG00000178234
0.48303	0.31454	ENSG00000182628
-0.48301	0.68545	ENSG00000196355
0.48267	0.31467	ENSG00000005513
-0.48247	0.68526	ENSG00000273170
0.48247	0.31474	ENSG00000105640
-0.48241	0.68524	ENSG00000135749
0.4822	0.31483	ENSG00000165912
-0.48219	0.68517	ENSG00000170293
-0.48209	0.68513	ENSG00000051009
0.48209	0.31487	ENSG00000196099
-0.48208	0.68512	ENSG00000182173
0.4818	0.31497	ENSG00000165792
-0.48168	0.68498	ENSG00000103710
0.48165	0.31503	ENSG00000113302
-0.48155	0.68494	ENSG00000114626

-0.48143	0.68489	ENSG00000146215
0.48122	0.31518	ENSG00000117155
-0.48116	0.6848	ENSG00000196176
0.48105	0.31524	ENSG00000154102
0.48104	0.31524	ENSG00000171777
0.48099	0.31526	ENSG00000141985
0.48098	0.31526	ENSG00000075568
0.48094	0.31528	ENSG00000148835
-0.48087	0.6847	ENSG00000152217
-0.48086	0.68469	ENSG00000183397
-0.48065	0.68462	ENSG00000143702
-0.48053	0.68457	ENSG00000103121
0.48048	0.31544	ENSG00000269422
0.48043	0.31546	ENSG00000102547
0.48033	0.3155	ENSG00000107249
-0.48031	0.6845	ENSG00000114013
-0.4802	0.68446	ENSG00000119655
-0.48008	0.68441	ENSG00000134398
-0.47988	0.68434	ENSG00000205090
0.47988	0.31566	ENSG00000134389
-0.47973	0.68429	ENSG00000115827
-0.47962	0.68425	ENSG00000188993
-0.47961	0.68425	ENSG00000105778
-0.4796	0.68424	ENSG00000188004
0.47954	0.31578	ENSG00000184357
0.47932	0.31585	ENSG00000131620
0.47914	0.31592	ENSG00000187806
0.47897	0.31598	ENSG00000237521
-0.47896	0.68402	ENSG00000162928
-0.4789	0.68399	ENSG00000100302
0.47879	0.31604	ENSG00000000971
-0.47878	0.68395	ENSG00000157349
0.47863	0.3161	ENSG00000143575
-0.47854	0.68387	ENSG00000066027
0.47807	0.3163	ENSG00000148840
0.47799	0.31633	ENSG00000186103
0.47799	0.31633	ENSG00000273259
-0.47798	0.68367	ENSG00000115762
0.47781	0.31639	ENSG00000205629
-0.47767	0.68356	ENSG00000186431
-0.4776	0.68353	ENSG00000166136
0.47751	0.3165	ENSG00000184825
-0.4774	0.68346	ENSG00000049249
-0.47732	0.68343	ENSG00000119725
-0.47726	0.68341	ENSG00000010295
0.47724	0.3166	ENSG00000134115
0.47716	0.31662	ENSG00000272869
-0.47695	0.6833	ENSG00000112852
0.47694	0.3167	ENSG00000129911
-0.47691	0.68329	ENSG00000166523
-0.47691	0.68329	ENSG00000141756

-0.47675	0.68323	ENSG00000180219
-0.47675	0.68323	ENSG00000178997
0.47663	0.31681	ENSG00000141837
0.47653	0.31685	ENSG00000262304
0.47649	0.31686	ENSG00000146859
0.47647	0.31687	ENSG00000100104
0.47635	0.31691	ENSG00000174137
0.47629	0.31693	ENSG00000105668
-0.47626	0.68306	ENSG00000170027
-0.47607	0.68299	ENSG00000008311
0.47595	0.31705	ENSG00000131400
0.47594	0.31706	ENSG00000167604
0.4758	0.31711	ENSG00000205726
-0.47575	0.68287	ENSG00000167157
0.47558	0.31719	ENSG00000124225
0.4755	0.31721	ENSG00000040633
0.4755	0.31721	ENSG00000100304
0.47543	0.31724	ENSG00000187715
-0.47538	0.68274	ENSG00000198521
-0.47532	0.68272	ENSG00000254979
-0.47532	0.68272	ENSG00000081138
0.4753	0.31729	ENSG00000248727
-0.47519	0.68267	ENSG00000002549
0.47478	0.31747	ENSG00000173214
-0.47475	0.68252	ENSG00000066379
0.4745	0.31757	ENSG00000142089
0.47446	0.31759	ENSG00000145246
0.47444	0.31759	ENSG00000112936
0.47441	0.3176	ENSG00000258740
-0.47432	0.68236	ENSG00000152433
0.47424	0.31766	ENSG00000123983
-0.47421	0.68233	ENSG00000105251
-0.4742	0.68232	ENSG00000188807
-0.47416	0.68231	ENSG00000022277
-0.47409	0.68228	ENSG00000155329
-0.47404	0.68226	ENSG00000175946
-0.47391	0.68222	ENSG00000145217
-0.47372	0.68215	ENSG00000178586
0.47372	0.31785	ENSG00000104321
-0.47363	0.68212	ENSG00000187866
-0.47362	0.68212	ENSG00000178093
0.47362	0.31789	ENSG00000204178
0.47344	0.31795	ENSG00000163710
0.47344	0.31795	ENSG00000186474
-0.47343	0.68205	ENSG00000082397
-0.47334	0.68202	ENSG00000110660
0.47301	0.3181	ENSG00000204237
-0.47291	0.68186	ENSG00000114405
-0.47282	0.68183	ENSG00000108469
0.47278	0.31818	ENSG00000263136
0.47263	0.31824	ENSG00000165916

0.47251	0.31828	ENSG00000149600
-0.47236	0.68166	ENSG00000159335
-0.47226	0.68163	ENSG00000116752
0.47225	0.31837	ENSG00000139233
-0.472	0.68154	ENSG00000135829
-0.47197	0.68153	ENSG00000111667
0.4718	0.31853	ENSG00000172955
-0.47179	0.68146	ENSG00000142166
0.47175	0.31855	ENSG00000198791
-0.47172	0.68144	ENSG00000156802
0.47158	0.31861	ENSG00000198824
0.47151	0.31864	ENSG00000183597
-0.47146	0.68135	ENSG00000136895
0.47142	0.31867	ENSG00000228919
0.47128	0.31872	ENSG00000187109
0.47103	0.31881	ENSG00000177186
-0.47092	0.68115	ENSG00000178860
-0.47078	0.6811	ENSG00000244624
0.47078	0.3189	ENSG00000180425
0.47076	0.31891	ENSG00000079785
-0.47072	0.68108	ENSG00000128714
-0.47072	0.68108	ENSG00000060069
0.47072	0.31892	ENSG00000117245
0.47068	0.31893	ENSG00000169717
-0.47041	0.68097	ENSG00000151320
-0.47039	0.68096	ENSG00000170471
-0.47024	0.68091	ENSG00000204406
-0.47024	0.68091	ENSG00000214063
0.47009	0.31914	ENSG00000196968
0.4699	0.31921	ENSG00000162813
-0.4698	0.68075	ENSG00000101470
0.46962	0.31931	ENSG00000197322
0.46955	0.31934	ENSG00000204389
0.46941	0.31939	ENSG00000181652
0.46937	0.3194	ENSG00000102974
-0.46931	0.68058	ENSG00000180488
0.4692	0.31946	ENSG00000146067
0.46917	0.31947	ENSG00000250565
0.46913	0.31949	ENSG00000113555
0.46896	0.31955	ENSG00000259133
0.46894	0.31956	ENSG00000091127
-0.46886	0.68041	ENSG00000136099
0.46882	0.3196	ENSG00000172915
0.46879	0.31961	ENSG00000137207
0.46879	0.31961	ENSG00000140961
0.46866	0.31966	ENSG00000114354
0.46849	0.31972	ENSG00000137434
0.46845	0.31973	ENSG00000177613
0.46827	0.31979	ENSG00000269064
-0.46813	0.68015	ENSG00000177479
-0.46784	0.68005	ENSG00000164144

0.46783	0.31995	ENSG00000175697
0.46778	0.31997	ENSG00000175471
-0.46775	0.68002	ENSG00000124491
-0.46764	0.67998	ENSG00000187837
0.46753	0.32006	ENSG00000105327
-0.46749	0.67993	ENSG00000253117
0.46749	0.32007	ENSG00000186174
0.46732	0.32014	ENSG00000198807
0.4673	0.32014	ENSG00000091542
-0.46717	0.67981	ENSG00000137090
-0.46716	0.67981	ENSG00000124406
-0.46715	0.6798	ENSG00000180901
0.46708	0.32022	ENSG00000239704
-0.46703	0.67976	ENSG00000172340
-0.46685	0.67969	ENSG00000133835
0.46677	0.32033	ENSG00000156299
-0.46658	0.6796	ENSG00000183960
-0.4665	0.67957	ENSG00000167634
-0.46646	0.67956	ENSG00000160551
0.46634	0.32049	ENSG00000105819
0.46634	0.32049	ENSG00000169925
-0.46633	0.67951	ENSG00000101444
-0.46631	0.6795	ENSG00000180205
0.46625	0.32052	ENSG00000013364
0.4662	0.32054	ENSG00000010256
0.46617	0.32055	ENSG00000175643
-0.46614	0.67944	ENSG00000101049
0.46609	0.32057	ENSG00000144290
-0.46608	0.67942	ENSG00000164825
-0.46607	0.67942	ENSG00000164849
0.46605	0.32059	ENSG00000133665
0.46599	0.32061	ENSG00000177683
-0.46594	0.67937	ENSG00000189013
0.46594	0.32063	ENSG00000154447
-0.46589	0.67935	ENSG00000154222
0.46535	0.32084	ENSG00000196652
0.46526	0.32087	ENSG00000188295
0.46524	0.32088	ENSG00000142330
0.46518	0.3209	ENSG00000062038
-0.46512	0.67908	ENSG00000268211
0.46511	0.32093	ENSG00000177489
0.46507	0.32094	ENSG00000214871
-0.465	0.67904	ENSG00000144747
-0.46497	0.67902	ENSG00000147676
0.46479	0.32104	ENSG00000213085
0.46465	0.32109	ENSG00000010017
-0.46459	0.67889	ENSG00000105732
-0.46457	0.67888	ENSG00000204007
0.46456	0.32112	ENSG00000109511
-0.46441	0.67882	ENSG00000268332
0.46438	0.32119	ENSG00000254959

-0.46429	0.67878	ENSG00000135392
0.46423	0.32124	ENSG00000148498
-0.46411	0.67872	ENSG00000103187
-0.46406	0.6787	ENSG00000064933
0.46395	0.32134	ENSG00000182362
0.46388	0.32137	ENSG00000071564
-0.46378	0.6786	ENSG00000204710
0.46369	0.32143	ENSG00000122783
-0.46342	0.67847	ENSG00000196914
-0.46326	0.67841	ENSG00000146966
-0.46325	0.67841	ENSG00000151552
-0.46324	0.6784	ENSG00000106948
-0.46323	0.6784	ENSG00000224132
-0.46315	0.67837	ENSG00000122852
0.46304	0.32167	ENSG00000039523
0.463	0.32168	ENSG00000172404
-0.46283	0.67826	ENSG00000106546
0.46276	0.32177	ENSG00000081870
-0.46265	0.67819	ENSG00000136718
0.46265	0.32181	ENSG00000159224
-0.46257	0.67816	ENSG00000159055
-0.46253	0.67815	ENSG00000222001
0.46251	0.32186	ENSG00000111058
-0.46248	0.67813	ENSG00000130714
0.46246	0.32188	ENSG00000064218
0.46236	0.32191	ENSG00000066294
-0.46235	0.67808	ENSG00000240344
-0.46229	0.67806	ENSG00000101052
-0.46225	0.67805	ENSG00000180573
0.46219	0.32197	ENSG00000137770
-0.46208	0.67799	ENSG00000108641
0.46203	0.32203	ENSG00000157064
0.46202	0.32203	ENSG00000128340
-0.46199	0.67795	ENSG00000153404
0.46193	0.32207	ENSG00000171503
-0.46188	0.67792	ENSG00000141449
-0.46185	0.67791	ENSG00000138075
0.46184	0.3221	ENSG00000115271
-0.46181	0.67789	ENSG00000074276
0.4618	0.32211	ENSG00000187244
0.46175	0.32213	ENSG00000115073
-0.4616	0.67781	ENSG00000188039
0.4615	0.32222	ENSG00000198612
0.46128	0.3223	ENSG00000157500
0.46127	0.3223	ENSG00000171219
-0.46101	0.6776	ENSG00000166402
0.46099	0.3224	ENSG00000173083
-0.46078	0.67752	ENSG00000158201
0.46047	0.32259	ENSG00000105968
0.46035	0.32263	ENSG00000169220
-0.46034	0.67737	ENSG00000138660

-0.46026	0.67733	ENSG00000170581
-0.46003	0.67725	ENSG00000203863
-0.45988	0.6772	ENSG00000103269
-0.45984	0.67718	ENSG00000141198
-0.45984	0.67719	ENSG00000092009
0.45984	0.32281	ENSG00000164125
-0.45983	0.67718	ENSG00000157404
0.45976	0.32285	ENSG00000130881
-0.45964	0.67711	ENSG00000137727
0.45959	0.3229	ENSG00000139865
0.4592	0.32304	ENSG00000189056
-0.45918	0.67695	ENSG00000145824
0.45915	0.32306	ENSG00000171051
-0.45906	0.6769	ENSG00000091640
-0.45905	0.6769	ENSG00000103355
-0.45904	0.6769	ENSG00000176219
-0.45903	0.67689	ENSG00000163393
0.45902	0.32311	ENSG00000151657
0.45891	0.32315	ENSG00000081307
0.45889	0.32316	ENSG00000162951
0.45882	0.32318	ENSG00000009307
-0.45855	0.67672	ENSG00000235978
0.45852	0.32329	ENSG00000164535
-0.45851	0.67671	ENSG00000196642
-0.45844	0.67668	ENSG00000163032
0.4583	0.32337	ENSG00000206150
-0.45825	0.67661	ENSG00000101187
-0.45824	0.67661	ENSG00000164405
0.45824	0.32339	ENSG00000156502
0.45821	0.3234	ENSG00000103024
-0.45819	0.67659	ENSG00000197256
0.45805	0.32346	ENSG00000022567
0.45801	0.32347	ENSG00000164615
0.45782	0.32354	ENSG00000166143
-0.4578	0.67645	ENSG00000028203
-0.45768	0.67641	ENSG00000118473
-0.45767	0.6764	ENSG00000161921
0.45766	0.3236	ENSG00000141552
0.45763	0.32361	ENSG00000120211
-0.45757	0.67637	ENSG00000159267
-0.4575	0.67634	ENSG00000109111
0.45737	0.3237	ENSG00000163935
0.45734	0.32371	ENSG00000164306
0.45722	0.32375	ENSG00000113013
-0.45694	0.67614	ENSG00000089159
0.4569	0.32387	ENSG00000151502
-0.45681	0.6761	ENSG00000122643
-0.45677	0.67608	ENSG00000110799
-0.45665	0.67604	ENSG00000092199
-0.45657	0.67601	ENSG00000101417
0.45656	0.32399	ENSG00000138760

0.45631	0.32408	ENSG00000072422
-0.45628	0.6759	ENSG00000185250
0.45623	0.32411	ENSG00000215021
-0.45619	0.67587	ENSG00000174776
0.45616	0.32414	ENSG00000103168
0.45612	0.32415	ENSG00000138696
0.45602	0.32419	ENSG00000116685
0.45601	0.32419	ENSG00000173926
-0.45598	0.6758	ENSG00000174915
-0.45594	0.67578	ENSG00000181499
-0.45584	0.67575	ENSG00000157542
0.45578	0.32427	ENSG00000143942
0.45574	0.32429	ENSG00000169230
-0.45569	0.67569	ENSG00000112139
0.45565	0.32432	ENSG00000196214
-0.45553	0.67563	ENSG00000100294
-0.4554	0.67559	ENSG00000236624
-0.4554	0.67559	ENSG00000237136
-0.45539	0.67559	ENSG00000003147
0.45538	0.32442	ENSG00000171148
-0.45536	0.67558	ENSG00000184371
0.4552	0.32448	ENSG00000099785
0.45517	0.32449	ENSG00000204516
-0.45499	0.67544	ENSG00000186326
0.45486	0.32461	ENSG00000186009
0.45478	0.32463	ENSG00000196867
0.45471	0.32466	ENSG00000089902
0.45467	0.32467	ENSG00000114978
0.45455	0.32472	ENSG00000073670
0.45452	0.32473	ENSG00000198488
0.45436	0.32478	ENSG00000155011
0.45435	0.32479	ENSG00000155130
0.45434	0.32479	ENSG00000115602
0.45428	0.32481	ENSG00000187609
-0.45423	0.67517	ENSG00000164035
0.45416	0.32486	ENSG00000126456
-0.45413	0.67513	ENSG00000132670
-0.45406	0.67511	ENSG00000123836
-0.45395	0.67507	ENSG00000025770
0.45387	0.32496	ENSG00000085760
-0.45379	0.67501	ENSG00000175203
0.45375	0.32501	ENSG00000149150
-0.45364	0.67496	ENSG00000140526
-0.45351	0.67491	ENSG00000153046
-0.45339	0.67487	ENSG00000255526
-0.453	0.67473	ENSG00000118655
0.45283	0.32533	ENSG00000074842
0.45282	0.32534	ENSG00000219438
-0.45274	0.67463	ENSG00000143466
-0.45274	0.67463	ENSG00000160216
-0.45262	0.67459	ENSG00000175318

-0.45261	0.67458	ENSG00000242574
-0.45261	0.67459	ENSG00000064703
0.45258	0.32543	ENSG00000105993
0.45254	0.32544	ENSG00000118308
0.45253	0.32544	ENSG00000164609
-0.45251	0.67455	ENSG00000144580
-0.45235	0.67449	ENSG00000177096
-0.45232	0.67448	ENSG00000169314
-0.45218	0.67443	ENSG00000161036
0.45216	0.32558	ENSG00000127311
0.45215	0.32558	ENSG00000182118
-0.4521	0.6744	ENSG00000121988
0.4521	0.3256	ENSG00000182180
0.4521	0.3256	ENSG00000185905
-0.45209	0.6744	ENSG00000157653
-0.45201	0.67437	ENSG00000066654
-0.45178	0.67428	ENSG00000183695
-0.4516	0.67422	ENSG00000090659
0.45154	0.3258	ENSG00000169469
0.4515	0.32581	ENSG00000120910
-0.45149	0.67418	ENSG00000187185
-0.45148	0.67418	ENSG00000125482
-0.4514	0.67415	ENSG00000142748
-0.45136	0.67413	ENSG00000173917
-0.4513	0.67411	ENSG00000143458
0.4513	0.32589	ENSG00000197142
-0.45124	0.67409	ENSG00000138069
0.45107	0.32597	ENSG00000139437
-0.45082	0.67394	ENSG00000249581
-0.45075	0.67392	ENSG00000196646
0.45067	0.32611	ENSG00000117906
-0.45059	0.67386	ENSG00000107854
0.45057	0.32615	ENSG00000205302
-0.45043	0.6738	ENSG00000114209
0.45016	0.3263	ENSG00000155729
0.45009	0.32632	ENSG00000146521
0.45004	0.32634	ENSG00000253368
0.44993	0.32638	ENSG00000205047
-0.44979	0.67357	ENSG00000160994
0.44978	0.32644	ENSG00000149090
0.44972	0.32646	ENSG00000092931
0.44969	0.32647	ENSG00000258864
-0.44966	0.67352	ENSG00000145860
0.44954	0.32652	ENSG00000118197
-0.44953	0.67348	ENSG00000197614
-0.44952	0.67347	ENSG00000137259
-0.44951	0.67347	ENSG00000117318
0.44949	0.32654	ENSG00000078814
-0.44934	0.67341	ENSG00000107669
0.44925	0.32663	ENSG00000145863
0.44925	0.32663	ENSG00000089048

0.44916	0.32666	ENSG00000138741
-0.44884	0.67323	ENSG00000204610
-0.44883	0.67322	ENSG00000162227
-0.44876	0.6732	ENSG00000124659
-0.4487	0.67318	ENSG00000125207
-0.44844	0.67308	ENSG00000205476
0.44838	0.32694	ENSG00000188186
-0.44828	0.67302	ENSG00000269205
-0.44824	0.67301	ENSG00000186635
0.44796	0.32709	ENSG00000100221
-0.4477	0.67282	ENSG00000138964
0.44767	0.3272	ENSG00000262484
-0.44766	0.6728	ENSG00000186967
0.44761	0.32722	ENSG00000073734
-0.44759	0.67277	ENSG00000242265
-0.44752	0.67275	ENSG00000104327
-0.44741	0.67271	ENSG00000197302
-0.44735	0.67269	ENSG00000100591
-0.44729	0.67267	ENSG00000085491
-0.44722	0.67264	ENSG00000184661
-0.44721	0.67264	ENSG00000181722
0.44721	0.32736	ENSG00000101608
-0.44708	0.67259	ENSG00000172732
-0.44707	0.67259	ENSG00000111361
-0.44705	0.67258	ENSG00000185002
0.44687	0.32748	ENSG00000115226
-0.44683	0.6725	ENSG00000184508
0.44669	0.32755	ENSG00000130449
0.44656	0.3276	ENSG00000029153
0.44642	0.32765	ENSG00000113761
0.44637	0.32766	ENSG00000103043
0.44626	0.3277	ENSG00000129451
-0.44607	0.67223	ENSG00000148942
-0.44593	0.67218	ENSG00000172053
-0.4459	0.67217	ENSG00000171307
0.4457	0.32791	ENSG00000198399
0.4457	0.32791	ENSG00000107731
-0.44569	0.67209	ENSG00000204386
0.44565	0.32793	ENSG00000127074
-0.44552	0.67203	ENSG00000142002
-0.44532	0.67196	ENSG00000255339
0.44528	0.32806	ENSG00000134780
0.44526	0.32807	ENSG00000121905
0.4452	0.32809	ENSG00000258315
-0.44519	0.67191	ENSG00000117118
-0.44519	0.67191	ENSG00000168671
0.44509	0.32813	ENSG00000005801
0.445	0.32816	ENSG00000136305
-0.44499	0.67184	ENSG00000181074
0.44488	0.3282	ENSG00000125531
-0.44477	0.67176	ENSG00000167034

0.44464	0.32829	ENSG00000108309
0.4446	0.32831	ENSG00000125656
-0.44458	0.67169	ENSG00000105058
0.44457	0.32831	ENSG00000141279
0.44454	0.32833	ENSG00000117472
-0.44451	0.67166	ENSG00000163539
-0.4444	0.67162	ENSG00000173575
0.44439	0.32838	ENSG00000160201
0.44432	0.32841	ENSG00000022976
0.44431	0.32841	ENSG00000143140
0.44416	0.32846	ENSG00000186881
0.4441	0.32849	ENSG00000132297
0.44405	0.3285	ENSG00000242247
-0.44394	0.67146	ENSG00000128829
-0.4439	0.67144	ENSG00000120784
-0.44375	0.67139	ENSG00000129968
-0.4437	0.67137	ENSG00000242550
-0.44368	0.67136	ENSG00000134533
-0.44368	0.67136	ENSG00000161905
-0.44357	0.67132	ENSG00000153823
0.44354	0.32869	ENSG00000138030
0.44346	0.32872	ENSG00000023041
0.44333	0.32876	ENSG00000063176
-0.44332	0.67123	ENSG00000162032
0.44324	0.3288	ENSG00000198417
-0.44323	0.6712	ENSG00000180089
-0.44323	0.6712	ENSG00000186965
-0.44322	0.6712	ENSG00000099812
0.44319	0.32881	ENSG00000114859
0.44314	0.32883	ENSG00000164379
0.4431	0.32885	ENSG00000184908
0.44298	0.32889	ENSG00000070778
0.44291	0.32891	ENSG00000101115
-0.44287	0.67107	ENSG00000152380
-0.44278	0.67104	ENSG00000100347
0.44277	0.32896	ENSG00000187753
0.44275	0.32897	ENSG00000164031
-0.44269	0.671	ENSG00000136720
-0.44265	0.67099	ENSG00000105722
0.44262	0.32902	ENSG00000233280
0.4425	0.32906	ENSG00000163964
0.44246	0.32908	ENSG00000136933
0.44244	0.32909	ENSG00000204960
-0.44236	0.67089	ENSG00000160396
0.44236	0.32911	ENSG00000171360
-0.44221	0.67083	ENSG00000127415
-0.44221	0.67083	ENSG00000136824
0.44212	0.3292	ENSG00000132744
0.44195	0.32926	ENSG00000105726
-0.4419	0.67072	ENSG00000070785
-0.4419	0.67072	ENSG00000164270

0.44188	0.32929	ENSG00000152601
-0.4418	0.67068	ENSG00000215018
-0.44166	0.67063	ENSG00000146221
-0.44136	0.67052	ENSG00000177182
-0.44134	0.67052	ENSG00000122085
0.44133	0.32949	ENSG00000116035
-0.44123	0.67048	ENSG00000123444
-0.44114	0.67045	ENSG00000163082
0.44111	0.32957	ENSG00000165943
-0.4411	0.67043	ENSG00000115866
-0.44104	0.67041	ENSG00000105204
0.44101	0.3296	ENSG00000151553
-0.44095	0.67037	ENSG00000166974
-0.44095	0.67038	ENSG00000167807
-0.44095	0.67038	ENSG00000267673
-0.44093	0.67037	ENSG00000206260
-0.44089	0.67035	ENSG00000162959
-0.44085	0.67034	ENSG00000073737
-0.4408	0.67032	ENSG00000134697
-0.44061	0.67025	ENSG00000164168
-0.44057	0.67024	ENSG00000134640
0.44038	0.32983	ENSG00000256980
-0.44022	0.67011	ENSG00000214510
-0.4401	0.67007	ENSG00000170049
0.44	0.32997	ENSG00000273331
0.44	0.32997	ENSG00000187187
0.43997	0.32998	ENSG00000181274
-0.43992	0.67	ENSG00000119801
-0.43992	0.67	ENSG00000184752
-0.43983	0.66997	ENSG00000109184
0.43975	0.33006	ENSG00000108774
-0.43969	0.66992	ENSG00000136457
-0.43965	0.6699	ENSG00000163807
0.4396	0.33011	ENSG00000263417
0.43956	0.33013	ENSG00000167550
0.43949	0.33015	ENSG00000138100
-0.43936	0.6698	ENSG00000269358
-0.43935	0.6698	ENSG00000134802
-0.43934	0.66979	ENSG00000114416
0.43922	0.33025	ENSG00000116132
0.43921	0.33026	ENSG00000169918
0.43918	0.33027	ENSG00000174775
-0.43913	0.66972	ENSG00000197056
0.43907	0.33031	ENSG00000151151
0.439	0.33033	ENSG00000185928
-0.4388	0.6696	ENSG00000144043
0.43874	0.33042	ENSG00000180776
-0.43869	0.66956	ENSG00000162961
-0.43866	0.66955	ENSG00000186977
0.4385	0.33051	ENSG00000108846
-0.43812	0.66935	ENSG00000100031

-0.43806	0.66933	ENSG00000143515
-0.438	0.66931	ENSG00000104517
0.43793	0.33072	ENSG00000171241
0.4379	0.33073	ENSG00000110011
-0.43788	0.66926	ENSG00000146416
0.43779	0.33077	ENSG00000119333
-0.43771	0.6692	ENSG00000227782
0.4377	0.3308	ENSG00000146425
-0.4376	0.66916	ENSG00000183783
0.43753	0.33086	ENSG00000230185
-0.43739	0.66908	ENSG00000149599
0.43739	0.33092	ENSG00000187033
-0.43727	0.66904	ENSG00000142192
0.4372	0.33098	ENSG00000103528
0.43719	0.33099	ENSG00000164893
-0.43701	0.66895	ENSG00000113448
0.43701	0.33105	ENSG00000083312
0.43696	0.33107	ENSG00000174339
-0.43672	0.66884	ENSG00000161526
-0.4367	0.66884	ENSG00000181935
-0.43664	0.66882	ENSG00000179950
0.43663	0.33119	ENSG00000163235
-0.43657	0.66879	ENSG00000168172
0.43654	0.33122	ENSG00000118513
0.4365	0.33124	ENSG00000197520
0.4364	0.33127	ENSG00000226321
0.43639	0.33128	ENSG00000174292
0.43637	0.33128	ENSG00000132436
0.43628	0.33132	ENSG00000134308
-0.43613	0.66863	ENSG00000135316
0.43605	0.3314	ENSG00000160213
0.43591	0.33145	ENSG00000180318
-0.43586	0.66853	ENSG00000166855
0.43579	0.3315	ENSG00000148680
-0.43574	0.66849	ENSG00000117425
-0.43574	0.66849	ENSG00000163590
-0.43571	0.66848	ENSG00000128159
-0.43568	0.66846	ENSG00000175065
-0.4355	0.6684	ENSG00000269559
-0.43548	0.66839	ENSG00000189043
-0.43538	0.66836	ENSG00000221926
0.43531	0.33167	ENSG00000106049
-0.435	0.66822	ENSG00000255298
0.43499	0.33179	ENSG00000229676
0.43483	0.33184	ENSG00000049618
0.43482	0.33185	ENSG00000114026
0.43479	0.33186	ENSG00000146592
-0.43466	0.6681	ENSG00000266997
-0.43465	0.66809	ENSG00000129221
0.43444	0.33198	ENSG00000146576
0.43442	0.33199	ENSG00000139722

0.4344	0.332	ENSG00000125817
-0.43436	0.66799	ENSG00000116128
-0.43436	0.66799	ENSG00000182545
-0.43434	0.66798	ENSG00000139679
-0.43421	0.66793	ENSG00000105996
0.43421	0.33207	ENSG00000181315
-0.4341	0.66789	ENSG00000137198
0.43409	0.33211	ENSG00000118298
0.43407	0.33212	ENSG00000188167
0.43384	0.3322	ENSG00000167792
-0.43381	0.66779	ENSG00000145365
-0.43378	0.66778	ENSG00000140848
0.43376	0.33223	ENSG00000187905
-0.43374	0.66776	ENSG00000124608
-0.43373	0.66776	ENSG00000172379
0.43359	0.33229	ENSG00000106346
0.43358	0.3323	ENSG00000172936
-0.43347	0.66767	ENSG00000152229
0.43347	0.33234	ENSG00000121410
-0.43343	0.66765	ENSG00000154736
0.43339	0.33236	ENSG00000128016
-0.43336	0.66762	ENSG00000018625
-0.43336	0.66762	ENSG00000183763
-0.43322	0.66757	ENSG00000132661
0.43315	0.33245	ENSG00000213578
0.43314	0.33246	ENSG00000130349
-0.43309	0.66753	ENSG00000255103
0.43308	0.33248	ENSG00000109861
0.43302	0.3325	ENSG00000267261
-0.43295	0.66747	ENSG00000206262
-0.43295	0.66748	ENSG00000077935
0.43293	0.33253	ENSG00000129173
0.43289	0.33255	ENSG00000212643
0.43287	0.33255	ENSG00000259518
0.4328	0.33258	ENSG00000160221
0.43274	0.3326	ENSG00000170190
-0.43268	0.66738	ENSG00000119614
-0.43267	0.66737	ENSG00000175066
0.43262	0.33265	ENSG00000268432
0.43232	0.33276	ENSG00000197776
0.43228	0.33277	ENSG00000127980
0.43223	0.33279	ENSG00000156171
0.43219	0.3328	ENSG00000188501
0.43213	0.33282	ENSG00000171786
0.43211	0.33283	ENSG00000132763
-0.43174	0.66703	ENSG00000151611
-0.43164	0.667	ENSG00000230000
-0.43152	0.66695	ENSG00000198920
-0.43148	0.66694	ENSG00000146469
0.43124	0.33315	ENSG00000230891
-0.43114	0.66682	ENSG00000184611

0.43105	0.33321	ENSG00000179921
0.431	0.33324	ENSG00000162493
0.43096	0.33325	ENSG00000119638
-0.43093	0.66674	ENSG00000188086
0.43085	0.33329	ENSG00000188175
-0.43081	0.6667	ENSG00000159658
0.43072	0.33333	ENSG00000186567
-0.43064	0.66664	ENSG00000163220
-0.43064	0.66664	ENSG00000261594
-0.43058	0.66661	ENSG00000204520
0.43047	0.33343	ENSG00000143420
-0.43042	0.66655	ENSG00000145982
0.43041	0.33345	ENSG00000139132
-0.43035	0.66653	ENSG00000117834
-0.43034	0.66653	ENSG00000137337
0.43029	0.33349	ENSG00000070081
-0.43027	0.6665	ENSG00000187193
0.43027	0.3335	ENSG00000185115
0.43019	0.33353	ENSG00000155087
0.43016	0.33354	ENSG00000268421
-0.43013	0.66645	ENSG00000101292
-0.43007	0.66643	ENSG00000018510
-0.42993	0.66638	ENSG00000172320
0.42986	0.33365	ENSG00000153037
-0.42977	0.66632	ENSG00000108830
-0.42976	0.66631	ENSG00000110066
-0.42976	0.66632	ENSG00000124785
-0.42937	0.66617	ENSG00000142655
0.42927	0.33386	ENSG00000163870
0.42921	0.33389	ENSG00000144749
-0.42913	0.66608	ENSG00000196074
-0.42912	0.66608	ENSG00000170144
-0.42911	0.66608	ENSG00000031691
0.42905	0.33394	ENSG00000157823
-0.42889	0.666	ENSG00000175121
0.42889	0.334	ENSG00000269185
-0.4287	0.66593	ENSG00000134440
-0.42868	0.66592	ENSG00000055163
-0.42851	0.66586	ENSG00000137177
-0.4283	0.66578	ENSG00000163067
-0.42823	0.66576	ENSG00000122548
0.42813	0.33428	ENSG00000167139
0.42808	0.3343	ENSG00000164484
-0.4279	0.66564	ENSG00000186951
-0.4278	0.6656	ENSG00000162804
-0.42777	0.66559	ENSG00000159917
0.42774	0.33442	ENSG00000205221
0.42762	0.33446	ENSG00000104883
-0.42758	0.66552	ENSG00000130202
-0.42736	0.66544	ENSG00000135317
0.42736	0.33456	ENSG00000184809

-0.42731	0.66542	ENSG00000161594
-0.42726	0.66541	ENSG00000170545
0.42726	0.3346	ENSG00000126254
-0.42718	0.66538	ENSG00000153162
-0.42711	0.66535	ENSG00000162892
-0.42709	0.66534	ENSG00000124818
0.42701	0.33469	ENSG00000125850
-0.42687	0.66526	ENSG00000249624
0.42674	0.33478	ENSG00000124160
0.42653	0.33486	ENSG00000109089
-0.4264	0.66509	ENSG00000235109
0.4262	0.33498	ENSG00000114779
0.4262	0.33498	ENSG00000248487
-0.42602	0.66495	ENSG00000174942
0.42592	0.33508	ENSG00000100647
0.42589	0.33509	ENSG00000143105
-0.42587	0.6649	ENSG00000240891
-0.42577	0.66486	ENSG00000145675
0.42566	0.33518	ENSG00000182759
0.4256	0.3352	ENSG00000196098
0.42545	0.33526	ENSG00000140522
-0.42532	0.6647	ENSG00000115306
0.42516	0.33536	ENSG00000255482
0.42506	0.33539	ENSG00000197081
0.42502	0.33541	ENSG00000172890
-0.42497	0.66457	ENSG00000125741
0.42479	0.33549	ENSG00000001561
-0.42465	0.66446	ENSG00000261221
0.42452	0.33559	ENSG00000109758
-0.42443	0.66437	ENSG00000115808
0.42438	0.33564	ENSG00000141644
-0.42435	0.66434	ENSG00000198483
-0.42424	0.66431	ENSG00000183389
-0.42412	0.66426	ENSG00000095752
-0.42403	0.66423	ENSG00000143545
-0.42401	0.66422	ENSG00000118491
-0.42395	0.6642	ENSG00000269871
0.42391	0.33582	ENSG00000138286
0.42386	0.33583	ENSG00000142484
0.42371	0.33589	ENSG00000165699
0.42366	0.33591	ENSG00000132182
-0.42365	0.66409	ENSG00000171435
-0.42352	0.66404	ENSG00000163888
0.42342	0.33599	ENSG00000154079
0.42333	0.33603	ENSG00000116667
-0.42312	0.6639	ENSG00000112576
-0.42307	0.66388	ENSG00000158669
-0.42298	0.66385	ENSG00000106648
-0.42294	0.66383	ENSG00000176236
0.42288	0.33619	ENSG00000163377
-0.42266	0.66373	ENSG00000161791

0.42262	0.33629	ENSG00000136003
-0.42258	0.6637	ENSG00000148483
0.42257	0.33631	ENSG00000124920
0.42251	0.33633	ENSG00000072609
-0.42249	0.66367	ENSG00000132613
-0.42232	0.6636	ENSG00000080603
-0.42228	0.66359	ENSG00000118640
0.42225	0.33642	ENSG00000175352
0.42214	0.33646	ENSG00000121753
-0.42206	0.66351	ENSG00000178301
0.42189	0.33655	ENSG00000161016
0.42188	0.33656	ENSG00000167491
-0.42186	0.66344	ENSG00000129003
-0.42174	0.66339	ENSG00000256566
0.42167	0.33663	ENSG00000143217
0.42164	0.33664	ENSG00000125629
-0.42163	0.66335	ENSG00000102900
0.42154	0.33668	ENSG00000175538
0.42142	0.33672	ENSG00000092020
0.42142	0.33672	ENSG00000154803
0.42137	0.33674	ENSG00000187391
-0.42134	0.66325	ENSG00000267303
0.42133	0.33676	ENSG00000174914
-0.42125	0.66321	ENSG00000173890
-0.42125	0.66321	ENSG00000124664
-0.42121	0.6632	ENSG00000100445
0.42118	0.33681	ENSG00000102743
0.42111	0.33684	ENSG00000086475
0.42108	0.33685	ENSG00000168389
0.42105	0.33686	ENSG00000167768
-0.42076	0.66303	ENSG00000122376
-0.42069	0.66301	ENSG00000177728
-0.4206	0.66298	ENSG00000222011
-0.42059	0.66297	ENSG00000041353
-0.42058	0.66297	ENSG00000135913
-0.42043	0.66292	ENSG00000177992
0.42042	0.33709	ENSG00000173456
0.42037	0.33711	ENSG00000268818
0.42033	0.33712	ENSG00000102931
0.42027	0.33714	ENSG00000164778
0.42021	0.33717	ENSG00000137801
-0.4202	0.66283	ENSG00000229937
-0.42017	0.66282	ENSG00000205981
-0.42017	0.66282	ENSG00000138175
0.42012	0.3372	ENSG00000165233
0.42012	0.3372	ENSG00000100580
0.42012	0.3372	ENSG00000184557
0.42001	0.33724	ENSG00000090512
-0.41996	0.66274	ENSG00000118004
-0.4198	0.66268	ENSG00000136710
-0.41967	0.66264	ENSG00000125868

0.41964	0.33737	ENSG00000121644
-0.41943	0.66255	ENSG00000145912
-0.41932	0.66251	ENSG00000137707
-0.41924	0.66248	ENSG00000165731
0.41922	0.33753	ENSG00000172519
0.41913	0.33756	ENSG00000180957
-0.41893	0.66237	ENSG00000135776
-0.41892	0.66236	ENSG00000253710
-0.41867	0.66227	ENSG00000131323
0.41856	0.33777	ENSG00000101158
-0.4185	0.66221	ENSG00000131351
-0.41841	0.66218	ENSG00000185352
-0.41833	0.66215	ENSG00000175746
-0.41831	0.66214	ENSG00000151131
0.41796	0.33799	ENSG00000101146
0.41794	0.338	ENSG00000212999
-0.41779	0.66195	ENSG00000164008
0.41779	0.33805	ENSG00000185262
-0.41777	0.66194	ENSG00000235645
0.41762	0.33811	ENSG00000163993
-0.41719	0.66173	ENSG00000152904
-0.41688	0.66162	ENSG00000118600
0.41686	0.33839	ENSG00000176029
-0.41682	0.6616	ENSG00000082781
0.41678	0.33842	ENSG00000164692
0.41675	0.33843	ENSG00000135341
-0.41673	0.66156	ENSG00000175309
-0.41669	0.66155	ENSG00000177335
0.41664	0.33847	ENSG00000186777
-0.41656	0.6615	ENSG00000180185
0.41654	0.33851	ENSG00000168334
0.41651	0.33852	ENSG00000135847
-0.41648	0.66147	ENSG00000128203
-0.41629	0.6614	ENSG00000091010
0.41615	0.33865	ENSG00000167645
-0.41612	0.66134	ENSG00000269103
-0.41602	0.6613	ENSG00000139697
0.41589	0.33874	ENSG00000156587
-0.41583	0.66123	ENSG00000133321
0.41577	0.33879	ENSG00000188163
-0.41565	0.66117	ENSG00000143751
0.41564	0.33884	ENSG00000143633
0.41555	0.33887	ENSG00000257962
-0.41547	0.6611	ENSG00000196734
0.41535	0.33894	ENSG00000063438
0.41535	0.33894	ENSG00000196961
-0.41507	0.66095	ENSG00000184459
0.41494	0.33909	ENSG00000182175
0.4149	0.33911	ENSG00000267963
-0.4147	0.66082	ENSG00000105677
-0.41467	0.66081	ENSG00000135974

0.41459	0.33922	ENSG00000101577
0.41451	0.33925	ENSG00000204370
0.41444	0.33927	ENSG00000101132
-0.41437	0.6607	ENSG00000103145
0.41435	0.33931	ENSG00000071894
0.41434	0.33931	ENSG00000185722
-0.41433	0.66068	ENSG00000182568
-0.41421	0.66064	ENSG00000125885
0.41418	0.33937	ENSG00000119698
-0.41417	0.66062	ENSG00000221989
0.41415	0.33938	ENSG00000135018
0.41411	0.3394	ENSG00000146063
-0.41408	0.66059	ENSG00000197020
-0.41403	0.66057	ENSG00000106266
0.41403	0.33942	ENSG00000178175
-0.41393	0.66054	ENSG00000163803
0.41391	0.33947	ENSG00000145685
-0.41379	0.66048	ENSG00000127780
0.41373	0.33954	ENSG00000135093
0.41366	0.33956	ENSG00000112357
0.4136	0.33958	ENSG00000184574
-0.41349	0.66038	ENSG00000035664
-0.41344	0.66036	ENSG00000162972
-0.41335	0.66033	ENSG00000141699
0.41332	0.33969	ENSG00000104499
0.41328	0.3397	ENSG00000106733
0.41323	0.33972	ENSG00000180043
-0.41316	0.66025	ENSG00000251357
0.41305	0.33978	ENSG00000100665
0.41291	0.33984	ENSG00000122435
-0.41289	0.66016	ENSG00000105852
0.41289	0.33984	ENSG00000100568
0.41278	0.33988	ENSG00000143921
0.41267	0.33993	ENSG00000204518
-0.4126	0.66005	ENSG00000117971
-0.4126	0.66005	ENSG00000142405
0.41259	0.33995	ENSG00000009780
-0.41258	0.66004	ENSG00000070193
-0.41252	0.66002	ENSG00000111664
-0.41249	0.66001	ENSG00000124092
0.41216	0.34011	ENSG00000256073
-0.41191	0.6598	ENSG00000258744
0.41186	0.34022	ENSG00000196683
-0.41176	0.65974	ENSG00000196357
-0.41163	0.6597	ENSG00000115839
0.4114	0.34039	ENSG00000005955
-0.41136	0.6596	ENSG00000163026
-0.41128	0.65957	ENSG00000116273
0.41125	0.34045	ENSG00000204702
0.41121	0.34046	ENSG00000189362
0.41118	0.34047	ENSG00000165682

-0.41114	0.65952	ENSG00000182218
-0.41104	0.65948	ENSG00000176495
-0.41103	0.65947	ENSG00000114796
0.41094	0.34056	ENSG00000124198
0.41093	0.34056	ENSG00000174145
0.41086	0.34059	ENSG00000117640
0.41072	0.34064	ENSG00000073910
0.4107	0.34065	ENSG00000084710
-0.41058	0.65931	ENSG00000182816
-0.41055	0.6593	ENSG00000170647
-0.41052	0.65929	ENSG00000134909
0.41052	0.34071	ENSG00000076685
0.41047	0.34073	ENSG00000124067
-0.41021	0.65917	ENSG00000127914
0.41016	0.34084	ENSG00000166444
-0.41013	0.65914	ENSG00000197576
0.41001	0.3409	ENSG00000221938
0.41001	0.3409	ENSG00000133030
-0.40999	0.65909	ENSG00000100320
0.40993	0.34093	ENSG00000145832
0.40977	0.34099	ENSG00000168772
-0.40967	0.65898	ENSG00000196431
-0.40966	0.65897	ENSG00000121594
-0.40966	0.65897	ENSG00000122008
0.40959	0.34105	ENSG00000120802
-0.4093	0.65884	ENSG00000111775
0.40912	0.34123	ENSG00000164434
0.40904	0.34126	ENSG00000163053
-0.40886	0.65868	ENSG00000091106
0.40854	0.34144	ENSG00000111181
-0.40853	0.65856	ENSG00000196172
-0.40839	0.65851	ENSG00000230062
0.40837	0.3415	ENSG00000013016
-0.40829	0.65847	ENSG00000112130
-0.40823	0.65845	ENSG00000206177
0.40818	0.34157	ENSG00000197472
0.40815	0.34158	ENSG00000125266
-0.40813	0.65841	ENSG00000189099
0.40783	0.3417	ENSG00000133111
-0.40781	0.65829	ENSG00000010932
0.40777	0.34172	ENSG00000135697
-0.40772	0.65826	ENSG00000142273
-0.40767	0.65824	ENSG00000100373
-0.40744	0.65816	ENSG00000138642
-0.40739	0.65814	ENSG00000157111
0.40737	0.34187	ENSG00000055211
-0.40724	0.65808	ENSG00000112212
0.40685	0.34206	ENSG00000009950
0.40656	0.34216	ENSG00000197591
0.40643	0.34222	ENSG00000010322
-0.40642	0.65778	ENSG00000112110

-0.40633	0.65775	ENSG00000066813
0.40631	0.34226	ENSG00000218823
0.40619	0.3423	ENSG00000114933
0.40618	0.34231	ENSG00000175820
-0.40611	0.65767	ENSG00000183628
-0.40593	0.6576	ENSG00000182346
-0.40584	0.65757	ENSG00000155918
0.40582	0.34244	ENSG00000131475
-0.40576	0.65754	ENSG00000119705
-0.40566	0.65751	ENSG00000021300
0.40566	0.34249	ENSG00000168393
-0.40554	0.65746	ENSG00000115446
-0.40552	0.65745	ENSG00000196739
0.40544	0.34258	ENSG00000163644
0.40538	0.3426	ENSG00000120694
0.40533	0.34262	ENSG00000162843
0.40532	0.34262	ENSG00000145014
-0.40528	0.65736	ENSG00000214300
-0.40527	0.65736	ENSG00000152242
0.40525	0.34265	ENSG00000084444
-0.40523	0.65735	ENSG00000104043
0.40523	0.34266	ENSG00000146453
-0.40505	0.65728	ENSG00000131013
-0.40505	0.65728	ENSG00000136840
0.4049	0.34278	ENSG00000123500
0.40489	0.34278	ENSG00000171804
-0.40473	0.65716	ENSG00000133710
0.40473	0.34284	ENSG00000112462
0.40459	0.34289	ENSG00000159346
-0.40458	0.65711	ENSG00000185728
-0.40448	0.65707	ENSG00000070614
0.40448	0.34293	ENSG00000175221
0.40437	0.34297	ENSG00000176769
-0.40433	0.65702	ENSG00000168906
-0.4042	0.65697	ENSG00000089775
-0.40418	0.65696	ENSG00000163254
0.40416	0.34305	ENSG00000176919
-0.40412	0.65694	ENSG00000239961
-0.40403	0.6569	ENSG00000076864
0.40401	0.3431	ENSG00000167114
0.40398	0.34311	ENSG00000164399
-0.4037	0.65678	ENSG00000110063
0.4037	0.34322	ENSG00000185862
0.4037	0.34322	ENSG00000105697
0.40366	0.34323	ENSG00000167536
-0.40351	0.65671	ENSG00000205220
-0.40347	0.6567	ENSG00000100312
0.40337	0.34334	ENSG00000129204
-0.40328	0.65663	ENSG00000162614
-0.40327	0.65662	ENSG00000160199
-0.40319	0.65659	ENSG00000168438

-0.40313	0.65658	ENSG00000099957
-0.40308	0.65655	ENSG00000125735
0.40308	0.34344	ENSG00000204262
0.40308	0.34344	ENSG00000140451
-0.40303	0.65654	ENSG00000105193
0.40297	0.34348	ENSG00000143457
-0.40292	0.65649	ENSG00000176055
0.40259	0.34362	ENSG00000130489
-0.4024	0.65631	ENSG00000073169
-0.40237	0.65629	ENSG00000139433
0.40237	0.3437	ENSG00000241058
-0.40233	0.65628	ENSG00000088854
-0.40219	0.65623	ENSG00000141946
0.40216	0.34378	ENSG00000138399
-0.40211	0.6562	ENSG00000183439
0.4021	0.3438	ENSG00000170790
0.40192	0.34387	ENSG00000197119
0.40182	0.34391	ENSG00000111012
0.40175	0.34393	ENSG00000054803
-0.40169	0.65604	ENSG00000095906
-0.40149	0.65597	ENSG00000164674
-0.40109	0.65582	ENSG00000077312
0.401	0.34421	ENSG00000144566
0.4008	0.34428	ENSG00000105971
-0.40072	0.65569	ENSG00000177596
-0.40068	0.65567	ENSG00000013441
0.40061	0.34436	ENSG00000079112
-0.40056	0.65563	ENSG00000164406
0.40056	0.34437	ENSG00000153922
-0.40054	0.65562	ENSG00000198513
-0.40053	0.65562	ENSG00000140859
-0.40048	0.6556	ENSG00000230778
0.40047	0.34441	ENSG00000166024
0.40044	0.34441	ENSG00000159450
-0.40041	0.65557	ENSG00000104936
-0.4003	0.65553	ENSG00000119138
-0.40019	0.65549	ENSG00000174990
0.40006	0.34456	ENSG00000142864
0.40005	0.34456	ENSG00000181961
0.39996	0.34459	ENSG00000131043
-0.39994	0.6554	ENSG00000163864
0.39991	0.34461	ENSG00000067798
0.39986	0.34463	ENSG00000137869
-0.39978	0.65534	ENSG00000103550
0.39965	0.34471	ENSG00000130772
-0.39958	0.65527	ENSG00000163081
-0.39958	0.65527	ENSG00000013293
-0.39958	0.65527	ENSG00000104833
-0.39957	0.65526	ENSG00000176239
-0.39942	0.65521	ENSG00000203667
-0.39939	0.6552	ENSG00000117399

0.39939	0.3448	ENSG00000163017
-0.39938	0.65519	ENSG00000177885
-0.39935	0.65518	ENSG00000149929
0.39929	0.34484	ENSG00000186088
-0.39925	0.65515	ENSG00000161955
-0.39919	0.65512	ENSG00000108352
0.39917	0.34488	ENSG00000178177
0.39901	0.34494	ENSG00000171960
0.39897	0.34496	ENSG00000132837
0.39892	0.34498	ENSG00000130702
0.39889	0.34499	ENSG00000143867
0.39889	0.34499	ENSG00000131626
-0.39881	0.65498	ENSG00000172209
-0.39881	0.65498	ENSG00000129559
0.39878	0.34503	ENSG00000222000
-0.39877	0.65497	ENSG00000145194
-0.39865	0.65492	ENSG00000168131
-0.39865	0.65493	ENSG00000205678
0.39861	0.34509	ENSG00000090565
0.39846	0.34514	ENSG00000105088
0.39841	0.34517	ENSG00000138801
0.39832	0.3452	ENSG00000027075
-0.39822	0.65477	ENSG00000148730
0.39816	0.34525	ENSG00000172426
0.39814	0.34526	ENSG00000184860
-0.3981	0.65472	ENSG00000269449
0.39809	0.34528	ENSG00000129214
-0.39804	0.6547	ENSG00000101280
-0.39791	0.65465	ENSG00000183709
0.39787	0.34536	ENSG00000205730
0.39784	0.34537	ENSG00000188215
0.39782	0.34538	ENSG00000134250
0.39782	0.34538	ENSG00000250305
-0.39775	0.65459	ENSG00000258484
-0.39769	0.65457	ENSG00000103489
-0.39763	0.65455	ENSG00000157456
0.39763	0.34545	ENSG00000135900
0.39753	0.34549	ENSG00000186400
-0.39734	0.65444	ENSG00000160325
0.39732	0.34557	ENSG00000100281
-0.39721	0.65439	ENSG00000134072
0.39718	0.34562	ENSG00000167523
-0.39716	0.65438	ENSG00000261732
0.39715	0.34563	ENSG00000112245
0.39711	0.34564	ENSG00000215277
-0.39696	0.6543	ENSG00000176659
-0.39686	0.65426	ENSG00000205496
0.39685	0.34574	ENSG00000107831
-0.39684	0.65426	ENSG00000186790
-0.39682	0.65425	ENSG00000176463
-0.3968	0.65424	ENSG00000162616

-0.39673	0.65422	ENSG00000149300
-0.39662	0.65418	ENSG00000135046
-0.3965	0.65413	ENSG00000157538
0.3964	0.34591	ENSG00000267952
-0.39628	0.65405	ENSG00000234719
-0.39623	0.65403	ENSG00000176148
0.39623	0.34597	ENSG00000173852
0.39616	0.34599	ENSG00000133818
0.39608	0.34602	ENSG00000197134
0.39599	0.34606	ENSG00000198185
0.39597	0.34606	ENSG00000152078
0.39587	0.3461	ENSG00000173480
0.39582	0.34612	ENSG00000155330
0.39578	0.34613	ENSG00000186440
0.39573	0.34615	ENSG00000149311
0.39567	0.34617	ENSG00000160714
-0.39561	0.6538	ENSG00000188991
0.39554	0.34622	ENSG00000145632
0.39547	0.34625	ENSG00000264472
-0.39544	0.65374	ENSG00000137714
-0.39543	0.65374	ENSG00000187098
0.39543	0.34626	ENSG00000054523
0.39522	0.34634	ENSG00000137709
0.39519	0.34635	ENSG00000268927
0.39497	0.34643	ENSG00000118231
0.39476	0.34651	ENSG00000119707
0.39471	0.34653	ENSG00000108651
-0.39467	0.65346	ENSG00000159307
0.39467	0.34654	ENSG00000083444
-0.39459	0.65343	ENSG00000134871
-0.39436	0.65334	ENSG00000171903
0.39433	0.34667	ENSG00000171227
-0.39424	0.6533	ENSG00000212768
-0.39419	0.65328	ENSG00000143067
0.39409	0.34676	ENSG00000176532
-0.39407	0.65323	ENSG00000197044
-0.39389	0.65317	ENSG00000076944
0.39388	0.34683	ENSG00000156482
-0.39386	0.65316	ENSG00000186207
-0.39377	0.65313	ENSG00000088899
0.39375	0.34688	ENSG00000185298
0.39372	0.34689	ENSG00000136160
-0.39367	0.65309	ENSG00000159733
0.39357	0.34695	ENSG00000152475
0.39356	0.34695	ENSG00000162378
-0.39352	0.65303	ENSG00000140750
-0.39349	0.65302	ENSG00000170037
0.39348	0.34698	ENSG00000006704
-0.39342	0.653	ENSG00000150201
0.39342	0.347	ENSG00000127720
-0.3933	0.65295	ENSG00000058085

-0.39327	0.65294	ENSG00000146085
-0.39316	0.6529	ENSG00000179520
0.39311	0.34712	ENSG00000113594
0.39306	0.34714	ENSG00000110031
0.39304	0.34714	ENSG00000177354
0.39303	0.34715	ENSG00000196860
-0.39297	0.65283	ENSG00000116194
-0.39276	0.65275	ENSG00000099246
0.39276	0.34725	ENSG00000143971
-0.39268	0.65272	ENSG00000086300
0.39264	0.34729	ENSG00000074319
-0.39262	0.6527	ENSG00000171855
0.39256	0.34732	ENSG00000123124
0.39249	0.34735	ENSG00000185420
-0.3924	0.65262	ENSG00000163378
-0.39232	0.65259	ENSG00000111816
0.39228	0.34742	ENSG00000123243
0.39227	0.34743	ENSG00000198842
-0.39225	0.65256	ENSG00000173818
0.39213	0.34748	ENSG00000146263
-0.39206	0.65249	ENSG00000163013
0.39206	0.34751	ENSG00000144791
0.39196	0.34754	ENSG00000177302
0.39195	0.34755	ENSG00000235034
-0.39163	0.65233	ENSG00000241127
0.39153	0.3477	ENSG00000169855
0.39152	0.34771	ENSG00000185129
-0.3915	0.65229	ENSG00000186453
-0.39146	0.65227	ENSG00000262730
-0.39141	0.65225	ENSG00000102606
-0.39127	0.6522	ENSG00000143337
0.39103	0.34789	ENSG00000250021
-0.39073	0.652	ENSG00000090372
0.39073	0.348	ENSG00000152977
0.39059	0.34805	ENSG00000168703
0.39056	0.34806	ENSG00000119537
0.39055	0.34806	ENSG00000118873
0.39032	0.34815	ENSG00000183153
-0.39028	0.65184	ENSG00000266733
-0.39018	0.6518	ENSG00000268367
-0.39015	0.65179	ENSG00000248993
0.39009	0.34824	ENSG00000182578
0.39001	0.34826	ENSG00000122877
0.38991	0.3483	ENSG00000179673
-0.38988	0.65169	ENSG00000091704
-0.38987	0.65168	ENSG00000121853
0.38977	0.34835	ENSG00000145386
-0.38975	0.65164	ENSG00000170866
-0.38973	0.65163	ENSG00000174373
0.38966	0.34839	ENSG00000105248
-0.38959	0.65158	ENSG00000198873

0.38943	0.34848	ENSG00000148334
0.38938	0.3485	ENSG00000211460
-0.38927	0.65146	ENSG00000214106
-0.38918	0.65143	ENSG00000159461
0.38918	0.34857	ENSG00000152207
0.38916	0.34858	ENSG00000169490
0.38915	0.34858	ENSG00000101079
-0.38903	0.65137	ENSG00000170348
0.38901	0.34863	ENSG00000081721
0.38899	0.34864	ENSG00000099308
-0.38891	0.65133	ENSG00000120563
-0.38889	0.65132	ENSG00000138029
0.38888	0.34868	ENSG00000102802
0.38882	0.3487	ENSG00000176974
-0.38866	0.65124	ENSG00000101199
0.38866	0.34876	ENSG00000060971
-0.38863	0.65122	ENSG00000176984
0.38862	0.34878	ENSG00000138600
0.38859	0.34879	ENSG00000114648
0.38859	0.34879	ENSG00000149972
0.38856	0.3488	ENSG00000092978
0.38849	0.34883	ENSG00000036257
0.38847	0.34883	ENSG00000085733
0.3884	0.34886	ENSG00000249016
0.38829	0.3489	ENSG00000187773
0.38825	0.34892	ENSG00000116984
0.38819	0.34894	ENSG00000244752
-0.38818	0.65106	ENSG00000137392
0.38818	0.34894	ENSG00000157214
0.38814	0.34896	ENSG00000028310
0.38802	0.349	ENSG00000110719
-0.388	0.65099	ENSG00000166035
0.38795	0.34903	ENSG00000205497
-0.38792	0.65096	ENSG00000168135
0.38783	0.34907	ENSG00000257726
0.3878	0.34908	ENSG00000216588
0.38778	0.34909	ENSG00000139793
-0.38776	0.6509	ENSG00000173039
-0.38771	0.65088	ENSG00000084070
-0.38771	0.65089	ENSG00000177225
-0.38768	0.65087	ENSG00000134375
0.38762	0.34915	ENSG00000003756
-0.38753	0.65082	ENSG00000179057
-0.38748	0.6508	ENSG00000053372
0.38745	0.34921	ENSG00000204482
-0.38735	0.65075	ENSG00000160293
0.38723	0.34929	ENSG00000137094
-0.38697	0.65061	ENSG00000169347
0.38692	0.34941	ENSG00000183726
-0.38681	0.65055	ENSG00000197405
-0.38671	0.65052	ENSG00000138079

-0.38662	0.65048	ENSG00000228716
-0.38658	0.65047	ENSG00000173744
-0.38648	0.65043	ENSG00000167281
-0.3864	0.6504	ENSG00000148702
0.38639	0.3496	ENSG00000114391
0.38626	0.34965	ENSG00000186153
0.38611	0.34971	ENSG00000082175
0.38605	0.34973	ENSG00000172150
-0.38595	0.65023	ENSG00000179915
0.38582	0.34981	ENSG00000155380
0.38576	0.34984	ENSG00000127831
-0.38575	0.65016	ENSG00000248098
-0.3857	0.65014	ENSG00000189410
-0.38567	0.65013	ENSG00000168309
0.38564	0.34988	ENSG00000184898
0.3856	0.3499	ENSG00000152454
0.38558	0.3499	ENSG00000015520
0.38555	0.34991	ENSG00000172554
0.38555	0.34991	ENSG00000213759
-0.38553	0.65008	ENSG00000168938
0.38542	0.34996	ENSG00000256222
0.38541	0.34997	ENSG00000163666
-0.38532	0.65	ENSG00000138081
0.38516	0.35006	ENSG00000138413
-0.38511	0.64992	ENSG00000151612
-0.38501	0.64988	ENSG00000174326
0.385	0.35012	ENSG00000171606
0.38493	0.35015	ENSG00000146856
0.38484	0.35018	ENSG00000163811
0.38481	0.35019	ENSG00000125170
0.38452	0.3503	ENSG00000136535
-0.38397	0.6495	ENSG00000268397
0.38393	0.35052	ENSG00000168658
0.38392	0.35052	ENSG00000005059
-0.38389	0.64947	ENSG00000168763
0.38388	0.35053	ENSG00000186648
0.38385	0.35054	ENSG00000092758
0.38375	0.35058	ENSG00000198467
-0.38373	0.64941	ENSG00000006118
0.38353	0.35066	ENSG00000205129
0.38337	0.35072	ENSG00000063046
-0.38327	0.64924	ENSG00000182866
0.38324	0.35077	ENSG00000148719
-0.38321	0.64922	ENSG00000143252
-0.38311	0.64918	ENSG00000197863
-0.38305	0.64916	ENSG00000154764
-0.38299	0.64914	ENSG00000184281
-0.38299	0.64914	ENSG00000166866
0.38287	0.35091	ENSG00000124541
-0.38284	0.64908	ENSG00000205784
0.3828	0.35093	ENSG00000196218

0.38271	0.35097	ENSG00000132561
-0.38267	0.64902	ENSG00000120727
0.38265	0.35099	ENSG00000009844
-0.38262	0.649	ENSG00000136487
0.3826	0.35101	ENSG00000271949
-0.38254	0.64897	ENSG00000119013
0.38249	0.35105	ENSG00000163933
0.38235	0.3511	ENSG00000100068
-0.38228	0.64887	ENSG00000219435
-0.38225	0.64886	ENSG00000108798
0.38223	0.35115	ENSG00000043093
-0.38202	0.64878	ENSG00000157093
-0.38197	0.64876	ENSG00000160606
0.38194	0.35125	ENSG00000132849
-0.38192	0.64874	ENSG00000185888
0.3819	0.35127	ENSG00000198848
-0.38186	0.64872	ENSG00000183840
0.38183	0.35129	ENSG00000168397
0.38181	0.3513	ENSG00000124196
0.38143	0.35144	ENSG00000088756
-0.38142	0.64856	ENSG00000182257
-0.38131	0.64851	ENSG00000087250
0.3813	0.35149	ENSG00000160058
0.38112	0.35156	ENSG00000109756
0.38108	0.35157	ENSG00000147592
0.38105	0.35158	ENSG00000116299
-0.38097	0.64839	ENSG00000042445
0.38094	0.35162	ENSG00000132680
0.38092	0.35163	ENSG00000087206
0.3809	0.35164	ENSG00000188996
0.3809	0.35164	ENSG00000072958
-0.38081	0.64833	ENSG00000141576
0.38081	0.35167	ENSG00000104763
-0.38079	0.64832	ENSG00000182993
0.38074	0.3517	ENSG00000174667
-0.38052	0.64822	ENSG00000138617
0.38035	0.35184	ENSG00000117791
-0.3803	0.64814	ENSG00000109158
0.38009	0.35194	ENSG00000153885
0.38006	0.35195	ENSG00000089050
-0.37995	0.64801	ENSG00000112394
0.37995	0.35199	ENSG00000108556
-0.37981	0.64796	ENSG00000069431
-0.37969	0.64791	ENSG00000159784
0.37966	0.3521	ENSG00000180061
0.3796	0.35212	ENSG00000172650
0.37956	0.35214	ENSG00000134987
-0.37954	0.64786	ENSG00000165985
-0.3795	0.64784	ENSG00000273266
0.37946	0.35217	ENSG00000178395
0.37946	0.35217	ENSG00000168631

-0.37944	0.64782	ENSG00000167608
0.37931	0.35223	ENSG00000197846
-0.37921	0.64774	ENSG00000115138
0.37921	0.35227	ENSG00000124839
0.37916	0.35229	ENSG00000110171
0.37901	0.35234	ENSG00000110497
-0.37897	0.64765	ENSG00000178917
0.37894	0.35237	ENSG00000182208
-0.37879	0.64758	ENSG00000175985
0.37879	0.35242	ENSG00000170909
-0.37872	0.64755	ENSG00000203942
-0.37866	0.64753	ENSG00000166946
0.37863	0.35248	ENSG00000114902
-0.37857	0.6475	ENSG00000255181
0.37847	0.35254	ENSG00000104427
0.37843	0.35255	ENSG00000104059
0.37839	0.35257	ENSG00000170373
0.37838	0.35258	ENSG00000144815
-0.37831	0.6474	ENSG00000170950
-0.3783	0.6474	ENSG00000142765
-0.37825	0.64738	ENSG00000271810
-0.37822	0.64737	ENSG00000151893
-0.37817	0.64735	ENSG00000100934
0.37813	0.35267	ENSG00000142534
-0.37807	0.64731	ENSG00000204038
0.37805	0.3527	ENSG00000145779
-0.37804	0.6473	ENSG00000162576
0.37803	0.3527	ENSG00000197992
0.37797	0.35273	ENSG00000006576
-0.37788	0.64724	ENSG00000134057
-0.37788	0.64724	ENSG00000204052
0.37784	0.35278	ENSG00000163083
-0.37762	0.64714	ENSG00000168273
-0.3776	0.64713	ENSG00000198336
0.37755	0.35288	ENSG00000213638
0.37751	0.3529	ENSG00000089225
-0.37744	0.64708	ENSG00000101220
-0.3774	0.64706	ENSG00000167549
-0.37733	0.64704	ENSG00000165801
0.37726	0.35299	ENSG00000153976
0.37724	0.353	ENSG00000124253
0.3772	0.35301	ENSG00000133466
0.37708	0.35306	ENSG00000263620
-0.37703	0.64692	ENSG00000203697
-0.37702	0.64692	ENSG00000170214
0.37685	0.35314	ENSG00000121879
0.37683	0.35315	ENSG00000138041
0.37682	0.35316	ENSG00000225940
0.37681	0.35316	ENSG00000145335
0.37672	0.35319	ENSG00000148248
-0.37664	0.64678	ENSG00000100575

-0.37664	0.64678	ENSG00000128487
-0.37642	0.6467	ENSG00000152818
-0.37632	0.64666	ENSG00000174332
-0.37616	0.6466	ENSG00000197808
0.37616	0.3534	ENSG00000044574
0.37604	0.35344	ENSG00000185873
0.37599	0.35346	ENSG00000155827
-0.37596	0.64653	ENSG00000198574
-0.37589	0.6465	ENSG00000197723
0.37585	0.35351	ENSG00000188655
-0.3758	0.64647	ENSG00000084453
-0.37562	0.6464	ENSG00000166535
0.37562	0.3536	ENSG00000166484
0.37558	0.35361	ENSG00000061273
0.37555	0.35363	ENSG00000160951
0.37552	0.35364	ENSG00000167046
-0.3755	0.64636	ENSG00000108684
0.37535	0.3537	ENSG00000119414
-0.37531	0.64628	ENSG00000120337
-0.37524	0.64626	ENSG00000137171
0.37506	0.35381	ENSG00000171608
-0.37494	0.64615	ENSG00000188827
0.3749	0.35387	ENSG00000112297
0.37485	0.35389	ENSG00000176014
0.37482	0.3539	ENSG00000186010
0.37481	0.3539	ENSG00000176200
0.37481	0.3539	ENSG00000105398
0.37479	0.35391	ENSG00000131016
-0.37476	0.64608	ENSG00000172146
-0.3747	0.64606	ENSG00000157219
0.37469	0.35395	ENSG00000170788
0.37466	0.35396	ENSG00000145107
0.37458	0.35399	ENSG00000197448
0.37457	0.35399	ENSG00000130508
0.37454	0.354	ENSG00000269067
-0.37449	0.64598	ENSG00000133422
0.37442	0.35405	ENSG00000254550
0.37441	0.35405	ENSG00000185523
-0.37431	0.64591	ENSG00000170917
0.37428	0.3541	ENSG00000100053
-0.37422	0.64588	ENSG00000168878
0.37421	0.35413	ENSG00000116883
-0.37419	0.64587	ENSG00000130312
-0.37418	0.64586	ENSG00000105370
-0.37415	0.64585	ENSG00000173436
-0.37411	0.64584	ENSG00000139631
0.37399	0.35421	ENSG00000161395
-0.37398	0.64579	ENSG00000148356
0.37393	0.35423	ENSG00000196312
0.37388	0.35425	ENSG00000198346
0.37378	0.35428	ENSG00000103811

0.37359	0.35435	ENSG00000113119
0.37356	0.35437	ENSG00000205821
-0.37351	0.64562	ENSG00000171595
0.37351	0.35439	ENSG00000100077
0.37327	0.35447	ENSG00000249459
0.37319	0.3545	ENSG00000166788
-0.37301	0.64543	ENSG00000196639
0.37295	0.35459	ENSG00000175868
-0.37289	0.64539	ENSG00000121542
0.37285	0.35463	ENSG00000175879
-0.37283	0.64536	ENSG00000156642
0.37282	0.35464	ENSG00000182963
0.37278	0.35466	ENSG00000137834
0.37276	0.35466	ENSG00000163202
0.3727	0.35468	ENSG00000108312
-0.37262	0.64528	ENSG00000136630
-0.37246	0.64523	ENSG00000143184
0.37239	0.3548	ENSG00000116560
-0.37237	0.64519	ENSG00000117751
-0.3723	0.64517	ENSG00000163958
0.37224	0.35486	ENSG00000182117
-0.37217	0.64512	ENSG00000170893
-0.37199	0.64505	ENSG00000154832
0.37193	0.35497	ENSG00000143891
0.37189	0.35499	ENSG00000113262
0.37189	0.35499	ENSG00000147454
-0.37186	0.645	ENSG00000205307
0.37184	0.35501	ENSG00000107643
-0.37172	0.64495	ENSG00000164879
-0.37172	0.64495	ENSG00000232850
0.37172	0.35505	ENSG00000257921
-0.37169	0.64494	ENSG00000139364
-0.37168	0.64493	ENSG00000168917
0.37168	0.35507	ENSG00000157601
-0.37167	0.64493	ENSG00000110245
-0.37165	0.64492	ENSG00000166435
0.37163	0.35508	ENSG00000103249
-0.37157	0.64489	ENSG00000132481
-0.37133	0.6448	ENSG00000076356
0.3709	0.35536	ENSG00000100060
-0.37071	0.64457	ENSG00000138172
-0.37065	0.64455	ENSG00000175097
-0.37059	0.64453	ENSG00000159079
0.37052	0.3555	ENSG00000139985
-0.37047	0.64448	ENSG00000185070
0.37047	0.35552	ENSG00000168619
0.37045	0.35552	ENSG00000141527
0.37044	0.35553	ENSG00000134905
0.3704	0.35554	ENSG00000197153
0.37019	0.35562	ENSG00000079387
-0.37011	0.64435	ENSG00000188747

-0.3701	0.64435	ENSG00000182352
-0.37009	0.64434	ENSG00000103067
-0.36989	0.64427	ENSG00000136878
-0.36985	0.64425	ENSG00000082213
-0.36984	0.64425	ENSG00000119401
0.36972	0.35579	ENSG00000146678
-0.36967	0.64419	ENSG00000129028
-0.36943	0.6441	ENSG00000076067
0.3693	0.35595	ENSG00000230055
-0.36929	0.64405	ENSG00000135457
0.36923	0.35598	ENSG00000006744
0.36922	0.35598	ENSG00000177169
-0.36917	0.644	ENSG00000184814
-0.36916	0.64399	ENSG00000198553
0.369	0.35606	ENSG00000091128
-0.36887	0.64389	ENSG00000111339
-0.36877	0.64385	ENSG00000144015
0.36875	0.35616	ENSG00000171045
-0.36864	0.6438	ENSG00000187240
0.36848	0.35626	ENSG00000011451
-0.36833	0.64369	ENSG00000106823
-0.36825	0.64366	ENSG00000083307
0.36825	0.35634	ENSG00000196653
0.3682	0.35636	ENSG00000067208
0.36819	0.35637	ENSG00000153802
-0.36817	0.64363	ENSG00000164898
-0.36817	0.64363	ENSG00000135698
0.36807	0.35641	ENSG00000184584
0.36806	0.35641	ENSG00000170801
-0.36803	0.64357	ENSG00000146842
0.36802	0.35643	ENSG00000151773
0.36792	0.35647	ENSG00000170486
0.36786	0.35649	ENSG00000050555
0.36786	0.35649	ENSG00000156304
-0.36783	0.6435	ENSG00000115290
0.36781	0.35651	ENSG00000163793
-0.36772	0.64346	ENSG00000130363
0.36772	0.35654	ENSG00000166260
0.36747	0.35663	ENSG00000163113
0.36747	0.35663	ENSG00000188986
0.36743	0.35665	ENSG00000020129
0.3674	0.35666	ENSG00000125534
-0.36738	0.64333	ENSG00000161405
0.36736	0.35668	ENSG00000164659
0.36736	0.35668	ENSG00000009830
-0.36734	0.64332	ENSG00000100197
0.36726	0.35671	ENSG00000166801
-0.36707	0.64322	ENSG00000065054
-0.36691	0.64316	ENSG00000205744
-0.36681	0.64312	ENSG00000107018
0.36668	0.35693	ENSG00000206538

0.36663	0.35695	ENSG00000172660
-0.3666	0.64304	ENSG00000117114
0.36659	0.35696	ENSG00000023892
0.36637	0.35704	ENSG00000167513
0.36636	0.35705	ENSG00000163606
0.36634	0.35705	ENSG00000165388
0.36631	0.35707	ENSG00000165462
-0.36624	0.64291	ENSG00000221909
0.36622	0.3571	ENSG00000008869
-0.36612	0.64286	ENSG00000176142
-0.36591	0.64278	ENSG00000116922
-0.36587	0.64277	ENSG00000100603
-0.36584	0.64276	ENSG00000127022
0.36574	0.35728	ENSG00000144130
0.36553	0.35736	ENSG00000090432
-0.36552	0.64264	ENSG00000259030
-0.36552	0.64264	ENSG00000116783
-0.36552	0.64264	ENSG00000223572
-0.3655	0.64263	ENSG00000196700
0.36524	0.35747	ENSG00000154783
-0.36513	0.64249	ENSG00000134259
0.36512	0.35751	ENSG00000174804
0.36502	0.35755	ENSG00000149743
0.36488	0.3576	ENSG00000136261
0.36475	0.35765	ENSG00000130720
0.3647	0.35767	ENSG00000158864
-0.36467	0.64232	ENSG00000258653
0.36467	0.35768	ENSG00000143761
-0.36461	0.6423	ENSG00000007038
0.3646	0.3577	ENSG00000075975
-0.36458	0.64229	ENSG00000158163
-0.36442	0.64223	ENSG00000163263
-0.36441	0.64223	ENSG00000163638
-0.36441	0.64223	ENSG00000141179
-0.36439	0.64222	ENSG00000158714
0.36435	0.3578	ENSG00000213030
-0.3643	0.64218	ENSG00000135437
0.36427	0.35783	ENSG00000158109
-0.3642	0.64215	ENSG00000137699
0.36415	0.35787	ENSG00000083838
-0.36413	0.64212	ENSG00000183718
0.36411	0.35789	ENSG00000159708
0.364	0.35793	ENSG00000136861
-0.36389	0.64203	ENSG00000137142
-0.36384	0.64201	ENSG00000170185
0.36381	0.358	ENSG00000004468
0.36381	0.358	ENSG00000101349
0.36379	0.35801	ENSG00000143869
0.36378	0.35801	ENSG00000141577
-0.36376	0.64198	ENSG00000153107
-0.36375	0.64198	ENSG00000221886

-0.36367	0.64195	ENSG00000183421
-0.36353	0.6419	ENSG00000168589
-0.36345	0.64186	ENSG00000153495
-0.36344	0.64186	ENSG00000140992
-0.36333	0.64182	ENSG00000237896
-0.36329	0.64181	ENSG00000164749
0.36326	0.3582	ENSG00000140265
-0.3632	0.64177	ENSG00000053918
-0.36319	0.64177	ENSG00000143393
0.36317	0.35824	ENSG00000161813
-0.36316	0.64176	ENSG00000103510
0.3629	0.35834	ENSG00000136383
-0.36285	0.64164	ENSG00000212933
-0.36283	0.64163	ENSG00000204952
-0.3627	0.64158	ENSG00000152056
-0.3627	0.64158	ENSG00000141744
0.36256	0.35847	ENSG00000079462
-0.3625	0.64151	ENSG00000141425
0.36238	0.35854	ENSG00000153147
0.36227	0.35858	ENSG00000257093
0.36203	0.35866	ENSG00000146021
-0.36201	0.64133	ENSG00000268519
0.36201	0.35867	ENSG00000080986
0.362	0.35868	ENSG00000225399
0.36177	0.35876	ENSG00000181847
0.36174	0.35877	ENSG00000196466
0.36173	0.35878	ENSG00000181523
0.3616	0.35883	ENSG00000161048
-0.36158	0.64117	ENSG00000143549
-0.36154	0.64115	ENSG00000115738
-0.36151	0.64114	ENSG00000169710
0.36144	0.35888	ENSG00000103005
0.36143	0.35889	ENSG00000176092
-0.36138	0.64109	ENSG00000214397
-0.36132	0.64107	ENSG00000171766
0.36132	0.35893	ENSG00000250644
-0.3613	0.64106	ENSG00000142784
-0.36123	0.64104	ENSG00000140105
0.36117	0.35899	ENSG00000135617
-0.36086	0.6409	ENSG00000162641
0.36079	0.35913	ENSG00000075856
0.36076	0.35914	ENSG00000123091
0.36076	0.35914	ENSG00000081692
0.36071	0.35916	ENSG00000197182
-0.36051	0.64077	ENSG00000269302
-0.36043	0.64074	ENSG00000197619
0.36043	0.35926	ENSG00000126777
-0.3604	0.64073	ENSG00000176124
0.36037	0.35928	ENSG00000164299
0.36037	0.35929	ENSG00000145708
0.36035	0.35929	ENSG00000134461

-0.36027	0.64068	ENSG00000002330
0.36025	0.35933	ENSG00000103995
0.3602	0.35935	ENSG00000268898
-0.3601	0.64061	ENSG00000206044
-0.36001	0.64058	ENSG00000198734
-0.35993	0.64055	ENSG00000231852
0.35992	0.35945	ENSG00000096996
-0.3599	0.64054	ENSG00000164935
0.35972	0.35953	ENSG00000010072
0.35969	0.35954	ENSG00000134775
0.35967	0.35955	ENSG00000273047
0.35965	0.35956	ENSG00000215183
0.3595	0.35961	ENSG00000145241
-0.35947	0.64038	ENSG00000110851
-0.35937	0.64034	ENSG00000118971
0.35935	0.35967	ENSG00000205581
0.35933	0.35968	ENSG00000211452
0.35932	0.35968	ENSG00000124507
0.35922	0.35971	ENSG00000164978
-0.35921	0.64028	ENSG00000134443
0.3592	0.35972	ENSG00000267260
-0.35915	0.64026	ENSG00000127463
0.35903	0.35979	ENSG00000166321
0.35893	0.35982	ENSG00000130477
-0.35891	0.64017	ENSG00000167851
0.35884	0.35986	ENSG00000165219
-0.35882	0.64013	ENSG00000126746
0.35879	0.35988	ENSG00000137460
-0.35878	0.64012	ENSG00000167565
0.3587	0.35991	ENSG00000136237
-0.35865	0.64007	ENSG00000181958
-0.35858	0.64005	ENSG00000224867
-0.35856	0.64004	ENSG00000186393
0.35855	0.35997	ENSG00000182473
0.35852	0.35998	ENSG00000120055
-0.35851	0.64002	ENSG00000167881
0.35846	0.36	ENSG00000111726
-0.35835	0.63996	ENSG00000161091
0.35831	0.36005	ENSG00000124383
-0.35828	0.63993	ENSG00000138109
0.35809	0.36014	ENSG00000242689
0.35806	0.36015	ENSG00000129691
0.35787	0.36022	ENSG00000205106
0.35779	0.36025	ENSG00000165621
0.35776	0.36026	ENSG00000114480
0.35751	0.36035	ENSG00000157703
0.3575	0.36036	ENSG00000135436
0.35738	0.3604	ENSG00000100359
0.35731	0.36043	ENSG00000129493
-0.35725	0.63955	ENSG00000154237
-0.35714	0.63951	ENSG00000173557

-0.35681	0.63938	ENSG00000136731
-0.35681	0.63938	ENSG00000184014
-0.35673	0.63935	ENSG00000268614
0.35673	0.36065	ENSG00000154122
-0.35663	0.63931	ENSG00000255223
0.35657	0.36071	ENSG00000128250
-0.35656	0.63929	ENSG00000118680
0.35647	0.36074	ENSG00000197879
-0.35643	0.63924	ENSG00000149084
-0.35638	0.63922	ENSG00000065135
-0.35638	0.63922	ENSG00000197536
-0.35636	0.63921	ENSG00000153820
0.35632	0.3608	ENSG00000170953
0.35626	0.36082	ENSG00000248369
0.35621	0.36084	ENSG00000106689
0.35616	0.36086	ENSG00000016391
0.3561	0.36088	ENSG00000146414
-0.35606	0.6391	ENSG00000104976
0.35599	0.36092	ENSG00000100889
0.35593	0.36095	ENSG00000072818
0.35576	0.36101	ENSG00000255423
0.35559	0.36107	ENSG00000255062
0.35529	0.36118	ENSG00000159921
-0.35521	0.63878	ENSG00000166278
0.35519	0.36122	ENSG00000159110
-0.35491	0.63867	ENSG00000155621
-0.35489	0.63866	ENSG00000108231
-0.35472	0.6386	ENSG00000118620
-0.35471	0.6386	ENSG00000113396
0.35467	0.36142	ENSG00000069188
0.35458	0.36145	ENSG00000155304
0.35455	0.36146	ENSG00000188176
0.35454	0.36147	ENSG00000198721
0.3545	0.36148	ENSG00000148288
0.35445	0.3615	ENSG00000203784
0.35436	0.36153	ENSG00000181381
-0.35428	0.63844	ENSG00000196776
0.35428	0.36156	ENSG00000106290
-0.35427	0.63843	ENSG00000197283
0.35422	0.36159	ENSG00000169248
0.35422	0.36159	ENSG00000146857
-0.35419	0.6384	ENSG00000057019
-0.35419	0.6384	ENSG00000268488
-0.35416	0.63839	ENSG00000260027
0.35408	0.36164	ENSG00000251692
-0.35397	0.63832	ENSG00000142609
-0.35365	0.6382	ENSG00000197183
-0.35361	0.63818	ENSG00000165887
0.35357	0.36183	ENSG00000144560
0.35351	0.36185	ENSG00000167916
-0.35336	0.63809	ENSG00000006625

0.35336	0.36191	ENSG00000178685
-0.35335	0.63809	ENSG00000118363
-0.35334	0.63808	ENSG00000114956
-0.35333	0.63808	ENSG00000101213
-0.35324	0.63805	ENSG00000139668
0.35318	0.36198	ENSG00000198626
-0.35314	0.63801	ENSG00000128313
0.35309	0.36201	ENSG00000131591
0.35289	0.36209	ENSG00000157020
-0.35271	0.63785	ENSG00000166272
-0.35264	0.63782	ENSG00000065485
0.35262	0.36219	ENSG00000158483
0.35261	0.36219	ENSG00000171469
-0.35256	0.63779	ENSG00000176953
-0.35255	0.63779	ENSG00000166401
0.35248	0.36224	ENSG00000197408
0.35242	0.36226	ENSG00000122733
0.3524	0.36227	ENSG00000168101
-0.35239	0.63773	ENSG00000062716
0.35228	0.36231	ENSG00000167113
-0.35226	0.63768	ENSG00000166197
-0.35212	0.63762	ENSG00000029639
-0.35206	0.6376	ENSG00000152413
-0.35202	0.63759	ENSG00000164794
-0.35188	0.63754	ENSG00000132963
-0.35178	0.6375	ENSG00000180011
0.35174	0.36252	ENSG00000135063
0.35171	0.36253	ENSG00000150593
-0.3517	0.63747	ENSG00000152583
0.35158	0.36258	ENSG00000128881
0.35158	0.36258	ENSG00000141510
0.35152	0.3626	ENSG00000065978
0.35145	0.36262	ENSG00000183735
-0.35133	0.63733	ENSG00000143815
0.35133	0.36267	ENSG00000118972
0.35132	0.36267	ENSG00000014919
0.35132	0.36267	ENSG00000149557
-0.35118	0.63727	ENSG00000169155
-0.35103	0.63722	ENSG00000185158
-0.35083	0.63714	ENSG00000196535
-0.35076	0.63712	ENSG00000047662
0.35035	0.36304	ENSG00000072778
-0.35032	0.63695	ENSG00000122678
0.34993	0.3632	ENSG00000178585
-0.34982	0.63676	ENSG00000267059
-0.3498	0.63676	ENSG00000110628
-0.34978	0.63675	ENSG00000204371
0.34959	0.36332	ENSG00000116062
-0.34936	0.63659	ENSG00000111785
0.34936	0.36341	ENSG00000173258
0.3493	0.36343	ENSG00000151116

0.3492	0.36347	ENSG00000187860
0.34905	0.36352	ENSG00000125319
-0.34899	0.63645	ENSG00000136161
-0.34897	0.63644	ENSG00000092853
0.34892	0.36357	ENSG00000126391
0.34888	0.36359	ENSG00000186442
-0.34885	0.6364	ENSG00000121851
0.34884	0.36361	ENSG00000005483
0.34874	0.36364	ENSG00000147465
0.34871	0.36365	ENSG00000026559
-0.34866	0.63633	ENSG00000161010
-0.34848	0.63626	ENSG00000116830
0.34815	0.36386	ENSG00000181467
-0.34803	0.63609	ENSG00000122584
-0.34793	0.63606	ENSG00000068097
-0.34791	0.63605	ENSG00000136842
-0.34791	0.63605	ENSG00000130203
-0.34789	0.63604	ENSG00000166265
0.34789	0.36396	ENSG00000184486
0.34785	0.36398	ENSG00000204897
0.34783	0.36398	ENSG00000076351
0.34769	0.36404	ENSG00000145911
0.34768	0.36404	ENSG00000104866
0.34764	0.36405	ENSG00000135205
-0.34754	0.63591	ENSG00000141446
0.34749	0.36411	ENSG00000129988
-0.34744	0.63587	ENSG00000185608
0.34744	0.36413	ENSG00000132881
-0.34738	0.63585	ENSG00000085465
0.34735	0.36417	ENSG00000161267
0.34721	0.36422	ENSG00000213903
0.3472	0.36422	ENSG00000163399
0.34709	0.36426	ENSG00000204514
0.34708	0.36427	ENSG00000174946
-0.34699	0.6357	ENSG00000171357
-0.34689	0.63566	ENSG00000104205
-0.34675	0.63561	ENSG00000146834
-0.34672	0.6356	ENSG00000214556
0.34672	0.3644	ENSG00000116675
0.34667	0.36442	ENSG00000166153
-0.34663	0.63556	ENSG00000162745
0.3466	0.36445	ENSG00000113578
-0.34655	0.63554	ENSG00000138386
0.34645	0.3645	ENSG00000144619
0.34645	0.3645	ENSG00000072042
-0.34632	0.63545	ENSG00000197646
-0.34627	0.63543	ENSG00000108950
0.34618	0.3646	ENSG00000164366
-0.34612	0.63537	ENSG00000169679
-0.34609	0.63536	ENSG00000166529
-0.34603	0.63534	ENSG00000187535

0.34594	0.3647	ENSG00000165097
-0.34591	0.63529	ENSG00000165458
0.34587	0.36472	ENSG00000145864
0.34579	0.36475	ENSG00000125743
0.34578	0.36476	ENSG00000119820
0.34552	0.36485	ENSG00000076053
-0.34548	0.63513	ENSG00000161558
0.34527	0.36494	ENSG00000205413
-0.3451	0.63499	ENSG00000122787
-0.34509	0.63499	ENSG00000100109
-0.34502	0.63496	ENSG00000241598
-0.345	0.63495	ENSG00000138382
-0.34496	0.63494	ENSG00000113569
-0.3449	0.63491	ENSG00000204532
-0.34479	0.63488	ENSG00000160961
0.34474	0.36515	ENSG00000161939
0.34469	0.36516	ENSG00000133027
-0.34451	0.63477	ENSG00000070495
0.34451	0.36523	ENSG00000186231
0.34448	0.36524	ENSG00000167657
0.34433	0.3653	ENSG00000134748
0.34425	0.36533	ENSG00000112339
-0.34423	0.63466	ENSG00000172215
0.34416	0.36536	ENSG00000163581
-0.3441	0.63461	ENSG00000203757
0.34408	0.36539	ENSG00000170819
-0.34401	0.63458	ENSG00000147955
-0.34396	0.63456	ENSG00000149179
-0.34391	0.63454	ENSG00000182307
0.34363	0.36556	ENSG00000203546
-0.34362	0.63443	ENSG00000168538
0.34362	0.36557	ENSG00000161800
-0.34357	0.63442	ENSG00000142512
0.34349	0.36561	ENSG00000103319
-0.34347	0.63438	ENSG00000125485
0.34336	0.36566	ENSG00000196151
0.34332	0.36568	ENSG00000198121
0.34327	0.3657	ENSG00000134444
0.34321	0.36572	ENSG00000164631
0.34321	0.36572	ENSG00000135407
0.3432	0.36572	ENSG00000174963
0.34313	0.36575	ENSG00000160298
-0.3431	0.63424	ENSG00000240857
0.34304	0.36579	ENSG00000151689
0.34299	0.3658	ENSG00000071127
-0.34283	0.63414	ENSG00000107821
0.34278	0.36588	ENSG00000079739
0.34274	0.3659	ENSG00000124215
-0.34272	0.6341	ENSG00000041988
-0.34271	0.63409	ENSG00000124107
0.34259	0.36595	ENSG00000104983

0.34255	0.36597	ENSG00000129473
-0.34247	0.634	ENSG00000185614
-0.3424	0.63397	ENSG00000152760
-0.34235	0.63396	ENSG00000116721
0.34229	0.36607	ENSG00000126603
0.34217	0.36611	ENSG00000180104
0.34216	0.36612	ENSG00000133627
0.34214	0.36612	ENSG00000140623
-0.34205	0.63384	ENSG00000261915
0.34192	0.3662	ENSG00000163382
0.3419	0.36621	ENSG00000107282
0.34176	0.36626	ENSG00000174255
0.34175	0.36627	ENSG00000120324
-0.34172	0.63372	ENSG00000114573
0.34168	0.36629	ENSG00000198917
0.34168	0.3663	ENSG00000164188
0.34157	0.36634	ENSG00000179902
-0.34135	0.63358	ENSG00000115966
0.34134	0.36642	ENSG00000106006
-0.34128	0.63356	ENSG00000239389
0.34128	0.36645	ENSG00000107331
0.3412	0.36648	ENSG00000152022
-0.34114	0.6335	ENSG00000165238
0.34105	0.36653	ENSG00000146755
0.34099	0.36655	ENSG00000244607
0.34098	0.36656	ENSG00000108960
-0.34096	0.63343	ENSG00000163322
-0.34095	0.63343	ENSG00000163659
-0.34087	0.6334	ENSG00000164326
-0.34086	0.6334	ENSG00000160948
0.3408	0.36663	ENSG00000065413
-0.34071	0.63334	ENSG00000136653
0.34061	0.3667	ENSG00000114019
-0.34058	0.63329	ENSG00000100578
0.34054	0.36673	ENSG00000170915
0.34051	0.36673	ENSG00000118785
0.3405	0.36674	ENSG00000135903
0.34047	0.36675	ENSG00000167037
-0.34043	0.63323	ENSG00000048140
0.34043	0.36676	ENSG00000250264
-0.34042	0.63323	ENSG00000198033
0.34042	0.36677	ENSG00000122882
0.3404	0.36678	ENSG00000085982
0.34039	0.36678	ENSG00000164604
-0.34037	0.63321	ENSG00000116455
0.34034	0.3668	ENSG00000162407
-0.34032	0.63319	ENSG00000176912
-0.3403	0.63319	ENSG00000166803
-0.34018	0.63314	ENSG00000059588
-0.34017	0.63314	ENSG00000132185
0.34007	0.3669	ENSG00000267060

-0.33997	0.63306	ENSG00000173486
0.33977	0.36702	ENSG00000042813
0.33965	0.36706	ENSG00000110536
0.33964	0.36706	ENSG00000120333
-0.33959	0.63292	ENSG00000187105
0.33957	0.36709	ENSG00000219200
0.33946	0.36713	ENSG00000132702
0.33946	0.36713	ENSG00000177675
0.33946	0.36713	ENSG00000130513
0.33945	0.36714	ENSG00000143845
-0.3394	0.63284	ENSG00000134827
-0.3393	0.63281	ENSG00000152804
0.33928	0.3672	ENSG00000181585
-0.33924	0.63279	ENSG00000117691
0.33918	0.36724	ENSG00000095627
-0.33906	0.63272	ENSG00000155761
0.33906	0.36728	ENSG00000100401
0.33899	0.36731	ENSG00000132677
0.33892	0.36734	ENSG00000164061
-0.33882	0.63263	ENSG00000123349
-0.3387	0.63258	ENSG00000111341
-0.33862	0.63255	ENSG00000080839
-0.33861	0.63255	ENSG00000243955
0.33861	0.36745	ENSG00000185231
-0.33842	0.63247	ENSG00000159200
0.33836	0.36755	ENSG00000163646
0.33822	0.3676	ENSG00000236294
0.33817	0.36762	ENSG00000132703
0.33814	0.36763	ENSG00000172613
-0.33805	0.63234	ENSG00000188257
-0.33788	0.63227	ENSG00000221845
0.33788	0.36773	ENSG00000258555
0.3378	0.36776	ENSG00000059691
0.33772	0.36779	ENSG00000205978
-0.33743	0.6321	ENSG00000155393
0.33728	0.36795	ENSG00000126934
-0.33719	0.63201	ENSG00000165794
0.33711	0.36802	ENSG00000170498
0.33708	0.36803	ENSG00000171729
0.33699	0.36806	ENSG00000165282
-0.33698	0.63193	ENSG00000105376
0.33693	0.36809	ENSG00000106261
0.33688	0.3681	ENSG00000184697
-0.33675	0.63185	ENSG00000141429
0.33671	0.36817	ENSG00000114251
-0.33658	0.63178	ENSG00000134830
-0.33651	0.63176	ENSG00000184708
0.33646	0.36826	ENSG00000140459
0.33635	0.36831	ENSG00000145388
0.33626	0.36834	ENSG00000165730
0.33624	0.36835	ENSG00000123453

0.33623	0.36835	ENSG00000196743
-0.33619	0.63164	ENSG00000182179
-0.33613	0.63161	ENSG00000187581
0.33604	0.36842	ENSG00000157985
-0.33601	0.63157	ENSG00000184956
0.33601	0.36843	ENSG00000183454
0.33599	0.36844	ENSG00000128045
-0.33587	0.63152	ENSG00000196230
-0.3357	0.63145	ENSG00000135736
0.33564	0.36857	ENSG00000221962
0.33561	0.36858	ENSG00000126432
-0.33557	0.6314	ENSG00000170638
-0.33554	0.63139	ENSG00000151276
-0.33534	0.63132	ENSG00000148484
-0.33531	0.63131	ENSG00000118246
0.3352	0.36874	ENSG00000135387
-0.33519	0.63126	ENSG00000158691
0.33519	0.36874	ENSG00000240771
0.33518	0.36874	ENSG00000159063
0.33513	0.36876	ENSG00000138068
-0.3351	0.63122	ENSG00000181038
0.335	0.36881	ENSG00000099821
0.335	0.36881	ENSG00000185761
-0.33484	0.63113	ENSG00000068976
-0.33484	0.63113	ENSG00000213928
-0.33483	0.63112	ENSG00000148848
0.33481	0.36888	ENSG00000170854
0.33476	0.3689	ENSG00000118514
-0.33474	0.63109	ENSG00000097046
-0.33474	0.63109	ENSG00000120738
0.33474	0.36891	ENSG00000145244
0.33473	0.36891	ENSG00000173145
-0.33472	0.63108	ENSG00000132142
0.33469	0.36893	ENSG00000117122
-0.3346	0.63104	ENSG00000121064
0.33458	0.36897	ENSG00000198326
0.33444	0.36902	ENSG00000197496
-0.33442	0.63097	ENSG00000116679
-0.33439	0.63096	ENSG00000104907
-0.33434	0.63094	ENSG00000100162
-0.33428	0.63092	ENSG00000179387
-0.33426	0.63091	ENSG00000188878
-0.33406	0.63083	ENSG00000141579
0.33403	0.36918	ENSG00000163239
0.33402	0.36918	ENSG00000119321
0.33396	0.36921	ENSG00000163207
-0.33393	0.63078	ENSG00000109323
0.33392	0.36922	ENSG00000120860
-0.33386	0.63076	ENSG00000106330
-0.33342	0.63059	ENSG00000269215
-0.33305	0.63045	ENSG00000196326

0.33299	0.36957	ENSG00000188761
-0.33298	0.63042	ENSG00000130045
0.33291	0.3696	ENSG00000121377
0.33291	0.3696	ENSG00000149634
-0.33254	0.63026	ENSG00000133116
0.33251	0.36975	ENSG00000140107
-0.33247	0.63023	ENSG00000126368
-0.33236	0.63019	ENSG00000243543
0.33233	0.36982	ENSG00000018189
0.33229	0.36984	ENSG00000198765
-0.33223	0.63014	ENSG00000181817
-0.33215	0.63011	ENSG00000169740
0.33195	0.36996	ENSG00000154548
0.33188	0.36999	ENSG00000146530
0.33182	0.37001	ENSG00000134207
0.33182	0.37001	ENSG00000163106
0.33179	0.37002	ENSG00000198742
0.33179	0.37002	ENSG00000160683
-0.33173	0.62995	ENSG00000166913
0.33173	0.37005	ENSG00000132463
-0.33168	0.62993	ENSG00000172893
0.33168	0.37006	ENSG00000009765
0.33167	0.37007	ENSG00000264545
0.33162	0.37009	ENSG00000196628
0.3315	0.37013	ENSG00000100629
0.33148	0.37014	ENSG00000168096
0.33132	0.3702	ENSG00000144524
-0.33126	0.62978	ENSG00000077009
-0.33124	0.62977	ENSG00000134508
0.33115	0.37027	ENSG00000138376
0.33113	0.37027	ENSG00000183087
-0.33107	0.62971	ENSG00000084112
-0.33105	0.6297	ENSG00000136770
-0.33088	0.62963	ENSG00000134007
-0.33087	0.62963	ENSG00000139651
-0.33087	0.62963	ENSG00000170367
-0.33085	0.62962	ENSG00000175455
0.33082	0.37039	ENSG00000105568
0.33067	0.37045	ENSG00000152926
0.33062	0.37047	ENSG00000163104
0.33059	0.37048	ENSG00000138686
0.33054	0.37049	ENSG00000034533
0.33043	0.37054	ENSG00000174899
0.33028	0.37059	ENSG00000265118
-0.33018	0.62937	ENSG00000066056
-0.33	0.6293	ENSG00000171124
-0.32997	0.62929	ENSG00000187051
0.32993	0.37073	ENSG00000198081
0.3299	0.37074	ENSG00000172590
0.32987	0.37075	ENSG00000246366
0.3298	0.37078	ENSG00000154114

-0.32978	0.62922	ENSG00000123689
0.3297	0.37081	ENSG00000168003
-0.32948	0.62911	ENSG00000143178
0.32937	0.37094	ENSG00000070814
-0.32931	0.62904	ENSG00000130723
0.32927	0.37097	ENSG00000188488
0.32922	0.371	ENSG00000158104
-0.32919	0.62899	ENSG00000136213
-0.32915	0.62898	ENSG00000236609
0.32913	0.37103	ENSG00000161996
0.32913	0.37103	ENSG00000159217
0.32904	0.37106	ENSG00000134323
0.32902	0.37107	ENSG00000124813
0.32894	0.3711	ENSG00000182810
-0.32893	0.62889	ENSG00000138942
0.32892	0.37111	ENSG00000120158
0.32885	0.37113	ENSG00000135747
0.32868	0.3712	ENSG00000103404
0.32861	0.37122	ENSG00000155561
-0.32859	0.62877	ENSG00000188089
0.32851	0.37126	ENSG00000123146
-0.3283	0.62866	ENSG00000084731
-0.3283	0.62866	ENSG00000259495
-0.32828	0.62865	ENSG00000189181
0.3282	0.37138	ENSG00000141905
0.32817	0.37139	ENSG00000073050
-0.32812	0.62859	ENSG00000144362
-0.32795	0.62853	ENSG00000135679
0.32794	0.37148	ENSG00000113328
-0.3277	0.62843	ENSG00000169252
0.32768	0.37158	ENSG00000221914
0.32768	0.37158	ENSG00000166188
0.32765	0.37159	ENSG00000162236
-0.32749	0.62835	ENSG00000225830
-0.32748	0.62835	ENSG00000137672
0.32747	0.37166	ENSG00000103051
0.32743	0.37167	ENSG00000178971
0.32729	0.37172	ENSG00000168243
-0.32723	0.62825	ENSG00000150656
0.32714	0.37178	ENSG00000174004
-0.32704	0.62818	ENSG00000185640
-0.32702	0.62817	ENSG00000112038
0.32701	0.37183	ENSG00000172260
0.32693	0.37186	ENSG00000203782
0.32692	0.37186	ENSG00000129933
-0.32683	0.6281	ENSG00000184208
-0.32682	0.6281	ENSG00000198130
0.32681	0.3719	ENSG00000187260
-0.32665	0.62803	ENSG00000169635
-0.32657	0.628	ENSG00000270672
-0.32656	0.628	ENSG00000166750

0.32649	0.37203	ENSG00000169087
-0.32644	0.62796	ENSG00000197993
0.32641	0.37206	ENSG00000196963
-0.32631	0.6279	ENSG00000215421
-0.3261	0.62783	ENSG00000107404
-0.32599	0.62778	ENSG00000159069
-0.32588	0.62774	ENSG00000139178
-0.32584	0.62773	ENSG00000137154
0.3258	0.37229	ENSG00000068796
-0.32579	0.62771	ENSG00000170390
-0.32565	0.62766	ENSG00000151790
0.32563	0.37235	ENSG00000139624
-0.32562	0.62764	ENSG00000135074
-0.32562	0.62764	ENSG00000095539
-0.32561	0.62764	ENSG00000198610
0.32559	0.37237	ENSG00000213132
-0.32548	0.62759	ENSG00000168591
-0.3253	0.62752	ENSG00000109534
0.32522	0.37251	ENSG00000136243
-0.32517	0.62747	ENSG00000124243
-0.32494	0.62739	ENSG00000111670
0.3249	0.37263	ENSG00000162241
0.32486	0.37264	ENSG00000088782
-0.32485	0.62735	ENSG00000241043
0.32476	0.37268	ENSG00000186496
0.32472	0.3727	ENSG00000149761
-0.32471	0.6273	ENSG00000163114
-0.32471	0.6273	ENSG00000203883
-0.32467	0.62729	ENSG00000126705
0.32466	0.37272	ENSG00000170004
0.32458	0.37275	ENSG00000116678
-0.32455	0.62724	ENSG00000172922
-0.32449	0.62722	ENSG00000272268
0.32443	0.37281	ENSG00000067715
-0.3244	0.62718	ENSG00000102871
-0.32438	0.62718	ENSG00000172602
-0.32426	0.62713	ENSG00000101306
0.32426	0.37287	ENSG00000205318
0.32414	0.37292	ENSG00000156042
-0.32398	0.62702	ENSG00000103742
0.32398	0.37298	ENSG00000255038
-0.32391	0.627	ENSG00000173599
-0.3239	0.62699	ENSG00000129235
0.32376	0.37306	ENSG00000178449
0.32373	0.37307	ENSG00000198374
-0.32371	0.62692	ENSG00000108639
0.32366	0.3731	ENSG00000123342
0.32365	0.3731	ENSG00000112796
0.32364	0.3731	ENSG00000187416
-0.32348	0.62684	ENSG00000173239
-0.32339	0.6268	ENSG00000148606

0.32332	0.37322	ENSG00000112304
0.32328	0.37324	ENSG00000125910
-0.3232	0.62673	ENSG00000123240
-0.32318	0.62672	ENSG00000065357
-0.32314	0.62671	ENSG00000204511
0.32311	0.3733	ENSG00000053108
0.32291	0.37338	ENSG00000103042
-0.32288	0.62661	ENSG00000106868
-0.32285	0.6266	ENSG00000137996
-0.32282	0.62658	ENSG00000260869
-0.32276	0.62656	ENSG00000146926
0.32273	0.37345	ENSG00000267987
-0.32261	0.6265	ENSG00000006638
-0.32258	0.62649	ENSG00000217236
0.32249	0.37354	ENSG00000268821
-0.32247	0.62645	ENSG00000196793
0.32226	0.37363	ENSG00000137965
0.32226	0.37363	ENSG00000160712
-0.32214	0.62633	ENSG00000112365
0.32213	0.37368	ENSG00000178307
-0.32212	0.62632	ENSG00000144231
0.32209	0.37369	ENSG00000153157
0.32191	0.37376	ENSG00000253976
0.32188	0.37377	ENSG00000079974
-0.32183	0.62621	ENSG00000172073
-0.32183	0.62621	ENSG00000164111
0.3218	0.3738	ENSG00000166337
-0.32179	0.6262	ENSG00000205593
-0.32166	0.62615	ENSG00000131848
0.32165	0.37386	ENSG00000110455
0.32162	0.37387	ENSG00000171863
0.32161	0.37387	ENSG00000135960
0.32161	0.37387	ENSG00000142039
0.32155	0.3739	ENSG00000162779
-0.32153	0.6261	ENSG00000001036
-0.32144	0.62606	ENSG00000197774
0.32142	0.37395	ENSG00000186732
-0.32137	0.62603	ENSG00000163293
-0.32132	0.62602	ENSG00000092969
-0.32131	0.62601	ENSG00000172845
-0.32119	0.62597	ENSG00000258311
0.32115	0.37405	ENSG00000221953
-0.32104	0.62591	ENSG00000167971
-0.32088	0.62585	ENSG00000167748
0.32085	0.37416	ENSG00000175826
0.32083	0.37417	ENSG00000087266
0.32081	0.37418	ENSG00000184933
0.32072	0.37421	ENSG00000103351
0.32069	0.37422	ENSG00000197006
0.32052	0.37429	ENSG00000156222
-0.3205	0.6257	ENSG00000175728

0.3205	0.3743	ENSG00000116459
-0.3204	0.62567	ENSG00000164889
-0.32038	0.62566	ENSG00000114904
0.32037	0.37435	ENSG00000166246
0.32029	0.37437	ENSG00000125652
-0.32026	0.62561	ENSG00000221840
-0.32019	0.62559	ENSG00000186472
-0.32018	0.62558	ENSG00000143774
-0.32016	0.62558	ENSG00000113356
0.32012	0.37444	ENSG00000168778
-0.3199	0.62548	ENSG00000163069
-0.31983	0.62545	ENSG00000166669
0.31978	0.37457	ENSG00000070019
0.31977	0.37457	ENSG00000067704
0.31954	0.37466	ENSG00000128610
0.31948	0.37468	ENSG00000102781
0.31942	0.3747	ENSG00000213121
0.31933	0.37474	ENSG00000167232
0.3193	0.37475	ENSG00000269738
0.31924	0.37477	ENSG00000060339
0.31922	0.37478	ENSG00000167531
0.31914	0.37481	ENSG00000253276
0.31914	0.37481	ENSG00000176641
-0.31909	0.62517	ENSG00000183560
-0.31904	0.62515	ENSG00000167751
0.31892	0.37489	ENSG00000116962
0.31889	0.37491	ENSG00000197859
-0.3187	0.62502	ENSG00000188738
-0.31862	0.62499	ENSG00000169118
-0.31852	0.62496	ENSG00000106526
-0.31845	0.62493	ENSG00000089116
0.31839	0.37509	ENSG00000196954
-0.31838	0.6249	ENSG00000168958
0.31833	0.37512	ENSG00000152518
0.31833	0.37512	ENSG00000185513
0.31816	0.37518	ENSG00000177426
-0.31815	0.62482	ENSG00000109917
-0.31805	0.62478	ENSG00000165215
-0.31803	0.62477	ENSG00000173517
-0.31802	0.62476	ENSG00000105443
-0.31802	0.62477	ENSG00000104826
-0.31787	0.62471	ENSG00000162763
0.31781	0.37531	ENSG00000171956
-0.3178	0.62468	ENSG00000120889
-0.31754	0.62458	ENSG00000258539
-0.3174	0.62453	ENSG00000176428
0.31725	0.37553	ENSG00000070423
0.31716	0.37556	ENSG00000189157
-0.31714	0.62443	ENSG00000231256
-0.31708	0.62441	ENSG00000197312
0.31707	0.3756	ENSG00000184029

-0.31705	0.6244	ENSG00000205330
-0.31694	0.62436	ENSG00000070388
0.31688	0.37567	ENSG00000172113
-0.31687	0.62433	ENSG00000233404
0.31683	0.37569	ENSG00000198556
0.31675	0.37572	ENSG00000166794
0.31672	0.37573	ENSG00000179029
-0.31666	0.62425	ENSG00000121903
0.31661	0.37577	ENSG00000113615
0.31652	0.3758	ENSG00000120685
-0.31648	0.62418	ENSG00000160469
0.31635	0.37587	ENSG00000163486
0.31632	0.37588	ENSG00000185946
-0.31628	0.6241	ENSG00000143248
0.31625	0.3759	ENSG00000144554
0.31623	0.37591	ENSG00000123159
-0.31597	0.62399	ENSG00000166391
0.31591	0.37603	ENSG00000165512
-0.31583	0.62393	ENSG00000196396
-0.31574	0.6239	ENSG00000148965
-0.31574	0.6239	ENSG00000127774
0.31542	0.37622	ENSG00000181562
-0.31526	0.62372	ENSG00000122971
0.31521	0.3763	ENSG00000124217
-0.31517	0.62368	ENSG00000133019
0.31515	0.37632	ENSG00000180909
-0.31505	0.62364	ENSG00000043039
-0.31483	0.62355	ENSG00000065882
-0.31478	0.62354	ENSG00000103148
-0.31449	0.62343	ENSG00000128276
-0.31437	0.62338	ENSG00000162494
0.31437	0.37662	ENSG00000166797
-0.31434	0.62337	ENSG00000149646
-0.31406	0.62326	ENSG00000049239
-0.31405	0.62326	ENSG00000116990
-0.31404	0.62325	ENSG00000155368
-0.31394	0.62321	ENSG00000198887
0.31388	0.37681	ENSG00000160179
0.31375	0.37686	ENSG00000134216
0.31372	0.37687	ENSG00000174444
0.31369	0.37688	ENSG00000080298
-0.31351	0.62305	ENSG00000058272
-0.31344	0.62303	ENSG00000165475
-0.31338	0.623	ENSG00000157578
-0.31335	0.62299	ENSG00000143839
0.3133	0.37703	ENSG00000007520
0.31322	0.37706	ENSG00000132383
0.31318	0.37707	ENSG00000125686
0.31311	0.3771	ENSG00000116016
-0.31304	0.62287	ENSG00000174453
0.31304	0.37713	ENSG00000177409

0.3129	0.37718	ENSG00000165309
0.31279	0.37722	ENSG00000160307
0.31276	0.37723	ENSG00000109790
0.31274	0.37724	ENSG00000141380
0.31267	0.37727	ENSG00000079308
-0.31264	0.62272	ENSG00000165115
-0.31258	0.6227	ENSG00000145907
0.31241	0.37736	ENSG00000171649
0.31237	0.37738	ENSG00000132341
-0.31228	0.62259	ENSG00000080823
-0.31227	0.62258	ENSG00000101639
0.31212	0.37747	ENSG00000119446
-0.31178	0.62239	ENSG00000120251
0.31176	0.37761	ENSG00000143110
0.3117	0.37764	ENSG00000144283
-0.31169	0.62236	ENSG00000132016
0.31163	0.37766	ENSG00000158470
-0.31157	0.62231	ENSG00000169019
0.31156	0.37769	ENSG00000122718
0.31156	0.37769	ENSG00000258674
-0.31153	0.6223	ENSG00000148136
-0.3113	0.62221	ENSG00000182534
-0.31126	0.6222	ENSG00000103342
0.31124	0.37781	ENSG00000179134
-0.31123	0.62219	ENSG00000165572
-0.3112	0.62218	ENSG00000169570
0.31114	0.37785	ENSG00000165476
-0.31113	0.62215	ENSG00000131203
0.31106	0.37788	ENSG00000154511
0.31102	0.37789	ENSG00000163395
-0.31085	0.62204	ENSG00000205143
-0.3108	0.62202	ENSG00000171159
0.31075	0.378	ENSG00000107551
-0.3107	0.62198	ENSG00000173418
0.31047	0.3781	ENSG00000116863
0.31047	0.3781	ENSG00000103335
0.31045	0.37811	ENSG00000183347
-0.3104	0.62187	ENSG00000120160
-0.31031	0.62184	ENSG00000168575
-0.31029	0.62183	ENSG00000100147
0.31021	0.3782	ENSG00000077235
0.31014	0.37823	ENSG00000123600
-0.31008	0.62175	ENSG00000116726
-0.30985	0.62166	ENSG00000124721
-0.30979	0.62164	ENSG00000106302
-0.30974	0.62162	ENSG00000168036
-0.30972	0.62161	ENSG00000103657
-0.30965	0.62159	ENSG00000167994
-0.30963	0.62158	ENSG00000116337
0.30952	0.37846	ENSG00000101198
0.30941	0.37851	ENSG00000137720

-0.30937	0.62148	ENSG00000066827
-0.30932	0.62146	ENSG00000127324
0.30932	0.37854	ENSG00000154743
-0.30926	0.62144	ENSG00000239605
-0.30923	0.62143	ENSG00000259316
-0.30916	0.6214	ENSG00000228208
-0.30914	0.62139	ENSG00000139292
-0.30854	0.62116	ENSG00000187486
0.30851	0.37885	ENSG00000143469
0.30846	0.37887	ENSG00000166073
-0.30843	0.62112	ENSG00000100505
-0.30834	0.62109	ENSG00000117010
-0.30833	0.62108	ENSG00000168404
0.30823	0.37895	ENSG00000171385
0.30816	0.37898	ENSG00000129535
0.30811	0.379	ENSG00000119487
0.30802	0.37903	ENSG00000163687
0.30791	0.37907	ENSG00000146676
0.3079	0.37908	ENSG00000133115
0.30776	0.37913	ENSG00000179889
0.30774	0.37914	ENSG00000118160
-0.30767	0.62083	ENSG00000143543
-0.30745	0.62075	ENSG00000048544
0.3074	0.37927	ENSG00000144583
-0.30737	0.62072	ENSG00000067248
-0.30732	0.6207	ENSG00000197768
-0.30719	0.62065	ENSG00000128585
0.3071	0.37938	ENSG00000214128
-0.30707	0.62061	ENSG00000238243
0.30703	0.37941	ENSG00000173114
-0.30669	0.62046	ENSG00000115155
-0.30661	0.62043	ENSG00000162391
-0.30651	0.62039	ENSG00000137860
0.30649	0.37961	ENSG00000172362
-0.30644	0.62037	ENSG00000156509
0.30626	0.3797	ENSG00000188037
0.30624	0.37971	ENSG00000169432
0.30622	0.37972	ENSG00000198821
-0.30615	0.62025	ENSG00000185033
-0.30605	0.62022	ENSG00000198218
-0.30605	0.62022	ENSG00000181826
-0.30594	0.62018	ENSG00000138604
-0.30563	0.62006	ENSG00000187664
0.30558	0.37996	ENSG00000100918
-0.30556	0.62003	ENSG00000097096
-0.30553	0.62002	ENSG00000121211
0.30551	0.37999	ENSG00000066855
-0.30537	0.61996	ENSG00000111247
-0.30534	0.61995	ENSG00000104432
0.30526	0.38008	ENSG00000138182
-0.30515	0.61988	ENSG00000205279

-0.30504	0.61983	ENSG00000182134
-0.30492	0.61979	ENSG00000122557
0.3049	0.38022	ENSG00000135124
0.30484	0.38024	ENSG00000179241
-0.30481	0.61975	ENSG00000150045
-0.30478	0.61973	ENSG00000115840
-0.30471	0.61971	ENSG00000164985
-0.30458	0.61966	ENSG00000127445
0.30454	0.38036	ENSG00000188909
0.3045	0.38037	ENSG00000134333
-0.30448	0.61962	ENSG00000149452
0.30435	0.38043	ENSG00000081791
0.30435	0.38043	ENSG00000184209
0.30432	0.38044	ENSG00000152377
0.30426	0.38047	ENSG00000198685
-0.30424	0.61953	ENSG00000092421
0.3042	0.38049	ENSG00000166016
-0.30418	0.61951	ENSG00000065970
-0.30396	0.61942	ENSG00000197093
0.30391	0.3806	ENSG00000198825
0.30384	0.38062	ENSG00000105894
-0.30383	0.61937	ENSG00000104918
-0.3038	0.61936	ENSG00000166851
-0.30369	0.61932	ENSG00000169826
0.30356	0.38073	ENSG00000163394
-0.3034	0.61921	ENSG00000095713
-0.30339	0.61921	ENSG00000135423
-0.30317	0.61912	ENSG00000116711
-0.30311	0.6191	ENSG00000101343
0.30292	0.38098	ENSG00000159231
0.30284	0.38101	ENSG00000189091
0.30282	0.38101	ENSG00000123388
0.3028	0.38102	ENSG00000067064
0.30274	0.38104	ENSG00000131165
-0.30266	0.61893	ENSG00000159840
-0.30265	0.61892	ENSG00000124784
0.30262	0.38109	ENSG00000139112
0.30261	0.3811	ENSG00000198826
-0.3026	0.6189	ENSG00000167858
-0.30259	0.6189	ENSG00000185885
-0.30256	0.61889	ENSG00000180198
0.30249	0.38114	ENSG00000271271
-0.30248	0.61886	ENSG00000174720
0.30228	0.38122	ENSG00000136536
0.30225	0.38123	ENSG00000154358
-0.30223	0.61876	ENSG00000123360
-0.30217	0.61874	ENSG00000113742
0.30204	0.38131	ENSG00000142798
-0.30202	0.61868	ENSG00000104529
-0.30199	0.61867	ENSG00000133958
-0.30194	0.61865	ENSG00000156467

-0.30193	0.61865	ENSG00000158805
0.30191	0.38136	ENSG00000111696
0.30186	0.38138	ENSG00000140876
0.30183	0.38139	ENSG00000185519
0.30182	0.38139	ENSG00000165506
0.3018	0.3814	ENSG00000130811
-0.30177	0.61859	ENSG00000183578
-0.30175	0.61858	ENSG00000137309
0.3017	0.38144	ENSG00000148123
0.30169	0.38144	ENSG00000108578
0.30169	0.38145	ENSG00000100416
-0.30163	0.61853	ENSG00000205002
0.30151	0.38151	ENSG00000198429
-0.30138	0.61844	ENSG00000074855
0.30129	0.3816	ENSG00000180660
-0.30128	0.6184	ENSG00000117586
-0.30121	0.61837	ENSG00000112996
0.30116	0.38165	ENSG00000083457
-0.30114	0.61835	ENSG00000147443
0.30113	0.38166	ENSG00000140093
-0.30108	0.61832	ENSG00000178342
-0.30095	0.61828	ENSG00000182093
0.30095	0.38173	ENSG00000169062
-0.3009	0.61825	ENSG00000106415
-0.30083	0.61823	ENSG00000132965
0.30081	0.38178	ENSG00000137221
0.30081	0.38178	ENSG00000072134
-0.30076	0.6182	ENSG00000244255
-0.30075	0.6182	ENSG00000248789
-0.30069	0.61817	ENSG00000181027
0.30068	0.38183	ENSG00000203443
-0.30033	0.61804	ENSG00000182986
0.30024	0.382	ENSG00000214900
0.30023	0.382	ENSG00000166573
0.30022	0.38201	ENSG00000156738
0.30005	0.38207	ENSG00000067560
-0.29994	0.61789	ENSG00000134339
0.29991	0.38212	ENSG00000127588
-0.29968	0.61779	ENSG00000157259
0.29968	0.38221	ENSG00000136381
0.29959	0.38224	ENSG00000203880
-0.29951	0.61773	ENSG00000154262
-0.29941	0.61769	ENSG00000144031
-0.29908	0.61756	ENSG00000173838
0.29894	0.38249	ENSG00000158092
0.29892	0.3825	ENSG00000177462
0.29889	0.38251	ENSG00000104356
-0.29886	0.61748	ENSG00000160233
-0.29879	0.61745	ENSG00000088808
-0.29873	0.61743	ENSG00000229292
-0.29867	0.6174	ENSG00000109452

-0.29847	0.61733	ENSG00000111665
0.29844	0.38268	ENSG00000163209
-0.29842	0.61731	ENSG00000050393
-0.29832	0.61727	ENSG00000255641
-0.29832	0.61727	ENSG00000213658
0.2982	0.38278	ENSG00000231213
-0.29819	0.61722	ENSG00000205327
0.29814	0.3828	ENSG00000215472
-0.29798	0.61714	ENSG00000136144
0.29793	0.38288	ENSG00000147419
0.29788	0.3829	ENSG00000161574
0.29786	0.3829	ENSG00000182272
0.29784	0.38291	ENSG00000255622
0.2978	0.38293	ENSG00000100036
0.29776	0.38294	ENSG00000213199
0.29769	0.38297	ENSG00000122512
-0.2976	0.617	ENSG00000180259
-0.2975	0.61696	ENSG00000175920
-0.29742	0.61693	ENSG00000183734
-0.29739	0.61692	ENSG00000120533
0.2971	0.38319	ENSG00000131381
0.2971	0.38319	ENSG00000137449
-0.29706	0.61679	ENSG00000197363
-0.29705	0.61679	ENSG00000109738
-0.29698	0.61676	ENSG00000133704
-0.29694	0.61674	ENSG00000173715
-0.29677	0.61668	ENSG00000130758
-0.29674	0.61667	ENSG00000069974
-0.29668	0.61664	ENSG00000145191
-0.29668	0.61665	ENSG00000263563
0.29664	0.38337	ENSG00000115504
0.29657	0.3834	ENSG00000135702
-0.29651	0.61658	ENSG00000077809
-0.29649	0.61657	ENSG00000165084
0.29629	0.3835	ENSG00000268182
0.29623	0.38353	ENSG00000108669
-0.29589	0.61634	ENSG00000187097
-0.29588	0.61634	ENSG00000136104
-0.29588	0.61634	ENSG00000141437
-0.29585	0.61633	ENSG00000180881
0.29575	0.38371	ENSG00000134014
-0.29574	0.61628	ENSG00000158023
-0.29574	0.61629	ENSG00000142347
0.2956	0.38377	ENSG00000185896
0.29559	0.38377	ENSG00000180596
0.29555	0.38379	ENSG00000039650
-0.2955	0.6162	ENSG00000134138
-0.29547	0.61618	ENSG00000145604
0.29534	0.38387	ENSG00000105325
-0.29532	0.61613	ENSG00000257545
-0.2953	0.61612	ENSG00000254553

0.29511	0.38396	ENSG00000198431
-0.29507	0.61603	ENSG00000161180
0.29499	0.384	ENSG00000214854
-0.2949	0.61597	ENSG00000004864
-0.29483	0.61594	ENSG00000237693
0.29479	0.38408	ENSG00000180287
-0.29476	0.61591	ENSG00000172336
0.29476	0.38409	ENSG00000159348
0.29458	0.38416	ENSG00000031698
-0.29456	0.61584	ENSG00000268083
-0.29452	0.61582	ENSG00000144061
-0.29445	0.61579	ENSG00000182793
0.29441	0.38422	ENSG00000020922
0.29435	0.38424	ENSG00000185112
0.29427	0.38428	ENSG00000137497
-0.29422	0.6157	ENSG00000155846
0.29416	0.38432	ENSG00000170920
0.29401	0.38437	ENSG00000005882
-0.29397	0.61561	ENSG00000170579
-0.29384	0.61556	ENSG00000189045
-0.29375	0.61552	ENSG00000102796
0.29375	0.38447	ENSG00000240542
-0.2935	0.61543	ENSG00000124641
0.29343	0.38459	ENSG00000102738
0.29341	0.38461	ENSG00000197599
0.29338	0.38462	ENSG00000164074
-0.29318	0.61531	ENSG00000115484
0.2929	0.3848	ENSG00000099622
0.29288	0.38481	ENSG00000126878
-0.29275	0.61514	ENSG00000170296
-0.29275	0.61514	ENSG00000262526
0.29274	0.38486	ENSG00000172938
-0.2927	0.61512	ENSG00000182326
0.29265	0.3849	ENSG00000120658
-0.29258	0.61508	ENSG00000156140
-0.2924	0.61501	ENSG00000178343
0.2924	0.38499	ENSG00000104613
-0.29238	0.615	ENSG00000151067
0.29236	0.38501	ENSG00000099282
0.29235	0.38501	ENSG00000196417
0.29233	0.38502	ENSG00000143125
0.29216	0.38508	ENSG00000213494
0.29216	0.38508	ENSG00000215568
0.29214	0.38509	ENSG00000134853
0.2921	0.38511	ENSG00000198931
0.2921	0.38511	ENSG00000101557
0.29199	0.38515	ENSG00000203690
0.29193	0.38517	ENSG00000100014
-0.29191	0.61482	ENSG00000182685
-0.2917	0.61474	ENSG00000183513
-0.29167	0.61473	ENSG00000198680

0.29162	0.38529	ENSG00000187116
0.29159	0.3853	ENSG00000105976
-0.29157	0.61469	ENSG00000114745
0.29155	0.38532	ENSG00000104131
0.29149	0.38534	ENSG00000155926
0.29148	0.38534	ENSG00000135372
-0.29144	0.61464	ENSG00000084093
-0.29141	0.61463	ENSG00000173482
-0.29133	0.6146	ENSG00000130037
-0.29132	0.61459	ENSG00000197019
0.29123	0.38544	ENSG00000113318
0.29105	0.3855	ENSG00000173011
0.29105	0.38551	ENSG00000160593
-0.291	0.61447	ENSG00000188811
-0.291	0.61448	ENSG00000156096
-0.29082	0.6144	ENSG00000125447
0.29081	0.3856	ENSG00000169442
-0.29067	0.61435	ENSG00000105011
-0.29053	0.6143	ENSG00000267710
0.29048	0.38572	ENSG00000086619
-0.29046	0.61427	ENSG00000263203
-0.29043	0.61426	ENSG00000073331
-0.29018	0.61416	ENSG00000077984
0.29007	0.38588	ENSG00000242110
0.29002	0.3859	ENSG00000145850
0.28998	0.38591	ENSG00000100714
0.28989	0.38595	ENSG00000054282
-0.28985	0.61403	ENSG00000120068
0.28982	0.38598	ENSG00000177106
-0.28976	0.614	ENSG00000180929
0.28969	0.38603	ENSG00000251139
0.28956	0.38608	ENSG00000168818
-0.28949	0.6139	ENSG00000131711
-0.28929	0.61382	ENSG00000143340
0.28925	0.3862	ENSG00000163932
0.28918	0.38622	ENSG00000154945
0.28913	0.38624	ENSG00000163608
-0.28907	0.61374	ENSG00000164171
-0.28903	0.61372	ENSG00000183206
-0.28897	0.6137	ENSG00000167925
0.28885	0.38635	ENSG00000140157
-0.28879	0.61363	ENSG00000170482
-0.28871	0.6136	ENSG00000161992
0.28871	0.3864	ENSG00000181689
0.28859	0.38645	ENSG00000141696
-0.28854	0.61353	ENSG00000106991
0.28846	0.3865	ENSG00000140563
-0.28843	0.61349	ENSG00000142686
-0.28838	0.61347	ENSG00000219492
0.28836	0.38654	ENSG00000178921
0.28835	0.38654	ENSG00000255804

0.28824	0.38658	ENSG00000177508
0.28823	0.38658	ENSG00000169714
0.28819	0.3866	ENSG00000177427
0.28815	0.38662	ENSG00000172803
0.28807	0.38665	ENSG00000164683
-0.28795	0.61331	ENSG00000186470
-0.28793	0.6133	ENSG00000187961
-0.28793	0.6133	ENSG00000176022
-0.28786	0.61327	ENSG00000214860
-0.28781	0.61325	ENSG00000140263
-0.2878	0.61325	ENSG00000157077
-0.28773	0.61322	ENSG00000157216
-0.28773	0.61322	ENSG00000197487
-0.2877	0.61321	ENSG00000005884
-0.28768	0.6132	ENSG00000164318
0.28761	0.38682	ENSG00000105516
-0.28759	0.61317	ENSG00000168924
0.28756	0.38684	ENSG00000197905
0.28753	0.38685	ENSG00000117228
0.28745	0.38689	ENSG00000070886
0.28725	0.38696	ENSG00000172775
-0.28719	0.61302	ENSG00000169554
-0.28718	0.61301	ENSG00000148672
0.28717	0.38699	ENSG00000206107
-0.28715	0.613	ENSG00000173947
0.28711	0.38701	ENSG00000177692
-0.28689	0.6129	ENSG00000182613
0.28689	0.3871	ENSG00000108878
-0.28685	0.61289	ENSG00000147526
0.28672	0.38716	ENSG00000113971
-0.28669	0.61283	ENSG00000147854
-0.28657	0.61278	ENSG00000071626
-0.28652	0.61276	ENSG00000114656
-0.28647	0.61274	ENSG00000078070
-0.28635	0.6127	ENSG00000124635
0.28626	0.38734	ENSG00000203805
0.28625	0.38734	ENSG00000138646
0.28616	0.38738	ENSG00000100982
0.28604	0.38742	ENSG00000166927
0.28599	0.38744	ENSG00000184922
0.28589	0.38748	ENSG00000182150
0.28589	0.38748	ENSG00000172382
-0.28588	0.61252	ENSG00000173566
-0.28577	0.61247	ENSG00000188026
0.28577	0.38753	ENSG00000172031
0.28574	0.38754	ENSG00000184156
0.28568	0.38756	ENSG00000140406
-0.28566	0.61243	ENSG00000187695
0.28552	0.38762	ENSG00000065665
-0.28551	0.61237	ENSG00000163909
0.28551	0.38763	ENSG00000050405

-0.2855	0.61237	ENSG00000198089
-0.28543	0.61234	ENSG00000256394
-0.28523	0.61227	ENSG00000069998
0.28521	0.38774	ENSG00000101138
-0.28518	0.61225	ENSG00000168936
-0.28513	0.61223	ENSG00000160180
0.28505	0.3878	ENSG00000108848
0.285	0.38782	ENSG00000115596
0.28499	0.38783	ENSG00000092010
-0.28491	0.61214	ENSG00000099203
-0.2849	0.61214	ENSG00000164520
0.28488	0.38787	ENSG00000119403
-0.28481	0.6121	ENSG00000205212
0.28477	0.38791	ENSG00000187080
0.28473	0.38793	ENSG00000175707
-0.28431	0.61191	ENSG00000131864
-0.28422	0.61188	ENSG00000023171
0.28421	0.38812	ENSG00000111846
0.28414	0.38815	ENSG00000128791
0.28412	0.38816	ENSG00000119599
-0.28409	0.61183	ENSG00000096384
-0.28409	0.61183	ENSG00000234545
0.28407	0.38818	ENSG00000173578
0.28404	0.38819	ENSG00000203867
0.28392	0.38824	ENSG00000131791
0.28384	0.38827	ENSG00000127364
0.28377	0.38829	ENSG00000180190
-0.28366	0.61166	ENSG00000160182
-0.28359	0.61164	ENSG00000140612
0.28347	0.38841	ENSG00000128567
-0.28344	0.61158	ENSG00000101638
-0.28341	0.61157	ENSG00000135917
0.28337	0.38845	ENSG00000101421
0.28335	0.38845	ENSG00000172939
-0.28332	0.61153	ENSG00000157693
-0.28326	0.61151	ENSG00000071243
0.28323	0.3885	ENSG00000144036
-0.28319	0.61148	ENSG00000125895
0.28318	0.38852	ENSG00000259060
0.28318	0.38852	ENSG00000173464
-0.28315	0.61147	ENSG00000238083
-0.28315	0.61147	ENSG00000185829
-0.28307	0.61144	ENSG00000268975
-0.28304	0.61143	ENSG00000130383
-0.283	0.61141	ENSG00000268465
-0.28295	0.61139	ENSG00000171505
-0.28284	0.61135	ENSG00000161960
-0.28278	0.61133	ENSG00000144452
-0.2826	0.61126	ENSG00000266964
0.28252	0.38877	ENSG00000163157
-0.28247	0.61121	ENSG00000144229

-0.28239	0.61118	ENSG00000138378
0.28194	0.38899	ENSG00000250151
0.28167	0.3891	ENSG00000180913
0.28162	0.38912	ENSG00000170782
0.28158	0.38913	ENSG00000007968
0.28156	0.38914	ENSG00000109436
0.28149	0.38917	ENSG00000162669
-0.28148	0.61083	ENSG00000092067
-0.28142	0.61081	ENSG00000156535
-0.28138	0.61079	ENSG00000115875
0.28119	0.38928	ENSG00000086061
0.28117	0.38929	ENSG00000088836
0.2811	0.38932	ENSG00000204624
-0.28106	0.61067	ENSG00000166411
-0.2809	0.6106	ENSG00000074181
-0.28089	0.6106	ENSG00000075340
0.2808	0.38943	ENSG00000174827
-0.28073	0.61054	ENSG00000143157
-0.28073	0.61054	ENSG00000267908
-0.28072	0.61054	ENSG00000114738
-0.28068	0.61052	ENSG00000110344
-0.28063	0.6105	ENSG00000168333
-0.28062	0.6105	ENSG00000267937
0.2806	0.38951	ENSG00000116906
0.28041	0.38958	ENSG00000060749
0.28039	0.38959	ENSG00000168787
0.28026	0.38964	ENSG00000172757
-0.28024	0.61035	ENSG00000123096
0.28022	0.38965	ENSG00000117598
0.28022	0.38965	ENSG00000162139
0.28022	0.38966	ENSG00000197223
0.28	0.38974	ENSG00000165996
0.27992	0.38977	ENSG00000160256
-0.27988	0.61022	ENSG00000167098
-0.27979	0.61018	ENSG00000152595
0.27962	0.38988	ENSG00000178732
0.27956	0.38991	ENSG00000173264
-0.27954	0.61009	ENSG00000074201
0.27948	0.38994	ENSG00000196569
-0.27945	0.61005	ENSG00000132361
0.27939	0.38997	ENSG00000240510
0.27939	0.38997	ENSG00000178796
-0.27932	0.61	ENSG00000268192
0.2793	0.39001	ENSG00000081923
-0.27928	0.60998	ENSG00000170264
0.27924	0.39003	ENSG00000188779
-0.27911	0.60992	ENSG00000135521
-0.27899	0.60987	ENSG00000138385
0.27899	0.39012	ENSG00000219073
-0.27883	0.60981	ENSG00000168993
-0.27877	0.60979	ENSG00000107362

0.2787	0.39024	ENSG00000168038
0.2787	0.39024	ENSG00000255284
-0.27865	0.60974	ENSG00000179912
-0.27862	0.60973	ENSG00000079616
0.2786	0.39028	ENSG00000164530
-0.27856	0.60971	ENSG00000101443
-0.27853	0.6097	ENSG00000176605
-0.27839	0.60965	ENSG00000112499
-0.27837	0.60963	ENSG00000167676
-0.27819	0.60957	ENSG00000146352
0.27816	0.39045	ENSG00000185739
-0.27812	0.60954	ENSG00000049167
0.27809	0.39047	ENSG00000159377
-0.27808	0.60952	ENSG00000104731
0.27798	0.39051	ENSG00000166716
-0.2778	0.60942	ENSG00000112039
-0.27779	0.60941	ENSG00000164080
0.27779	0.39059	ENSG00000169962
-0.27775	0.6094	ENSG00000153902
-0.27767	0.60937	ENSG00000143434
0.27757	0.39067	ENSG00000235608
-0.27752	0.60931	ENSG00000125995
0.27732	0.39077	ENSG00000172986
-0.27721	0.60919	ENSG00000053254
0.27717	0.39083	ENSG00000174442
-0.27711	0.60915	ENSG00000268643
-0.27702	0.60912	ENSG00000165060
-0.27684	0.60905	ENSG00000163960
-0.27681	0.60904	ENSG00000119227
0.27654	0.39107	ENSG00000183379
0.2765	0.39108	ENSG00000145700
-0.2764	0.60888	ENSG00000204217
0.27635	0.39114	ENSG00000197561
0.27634	0.39114	ENSG00000154429
0.27628	0.39117	ENSG00000204701
0.27601	0.39127	ENSG00000155858
0.27594	0.3913	ENSG00000171097
0.27583	0.39134	ENSG00000269367
-0.27581	0.60865	ENSG00000133961
-0.27565	0.60859	ENSG00000172673
0.27561	0.39142	ENSG00000042832
-0.27558	0.60856	ENSG00000169193
0.27547	0.39148	ENSG00000026297
0.27544	0.39149	ENSG00000070731
0.27527	0.39155	ENSG00000113205
0.27527	0.39155	ENSG00000101098
0.2752	0.39158	ENSG00000016602
0.2752	0.39158	ENSG00000053747
0.27517	0.39159	ENSG00000161082
0.27511	0.39162	ENSG00000152495
0.27507	0.39163	ENSG00000120235

0.27502	0.39165	ENSG00000164185
-0.27499	0.60834	ENSG00000185808
0.27487	0.39171	ENSG00000180096
0.27485	0.39172	ENSG00000237190
-0.27457	0.60818	ENSG00000114529
0.27445	0.39187	ENSG00000240230
-0.27433	0.60809	ENSG00000127928
0.27433	0.39191	ENSG00000175785
0.27432	0.39192	ENSG00000158445
0.27425	0.39194	ENSG00000165152
0.27412	0.39199	ENSG00000105329
0.27405	0.39202	ENSG00000154240
-0.27402	0.60797	ENSG00000099956
-0.27389	0.60792	ENSG00000182871
0.27373	0.39215	ENSG00000115085
-0.27368	0.60783	ENSG00000140067
-0.27359	0.6078	ENSG00000178988
-0.27356	0.60779	ENSG00000147364
-0.27352	0.60777	ENSG00000188833
0.27335	0.39229	ENSG00000143643
-0.2733	0.60769	ENSG00000007202
0.27321	0.39235	ENSG00000145349
-0.27316	0.60764	ENSG00000213983
-0.27311	0.60762	ENSG00000184716
0.27311	0.39238	ENSG00000169715
-0.27301	0.60758	ENSG00000101446
0.27297	0.39244	ENSG00000172661
0.27296	0.39244	ENSG00000254019
-0.27288	0.60753	ENSG00000136682
0.27284	0.39249	ENSG00000166478
-0.27276	0.60748	ENSG00000198520
-0.27264	0.60744	ENSG00000175189
-0.27254	0.60739	ENSG00000176894
-0.27247	0.60737	ENSG00000169813
0.2724	0.39266	ENSG00000170458
0.27236	0.39267	ENSG00000172331
0.27234	0.39268	ENSG00000196227
-0.27232	0.60731	ENSG00000241794
-0.27231	0.60731	ENSG00000197894
0.2722	0.39273	ENSG00000267106
0.27214	0.39276	ENSG00000124802
-0.2721	0.60723	ENSG00000256040
0.27203	0.3928	ENSG00000146674
-0.27187	0.60714	ENSG00000143126
0.27154	0.39299	ENSG00000129595
0.27152	0.393	ENSG00000212916
0.27151	0.393	ENSG00000010310
-0.27145	0.60698	ENSG00000106004
-0.27118	0.60687	ENSG00000055950
-0.27118	0.60687	ENSG00000162341
-0.2711	0.60684	ENSG00000185721

0.27106	0.39317	ENSG00000267216
-0.27101	0.60681	ENSG00000122375
-0.27096	0.60679	ENSG00000198551
-0.27095	0.60679	ENSG00000121351
0.27094	0.39322	ENSG00000169393
0.27092	0.39323	ENSG00000134668
-0.27081	0.60673	ENSG00000168010
-0.2708	0.60673	ENSG00000164654
-0.27065	0.60667	ENSG00000049089
-0.27058	0.60664	ENSG00000160716
0.27055	0.39337	ENSG00000091428
0.27028	0.39347	ENSG00000106829
-0.27019	0.60649	ENSG00000165828
-0.27016	0.60648	ENSG00000178202
-0.27011	0.60646	ENSG00000151491
-0.26999	0.60641	ENSG00000119862
0.26996	0.3936	ENSG00000111266
-0.2699	0.60638	ENSG00000100504
-0.26969	0.6063	ENSG00000095777
-0.26969	0.6063	ENSG00000141012
-0.26969	0.6063	ENSG00000256463
-0.26952	0.60624	ENSG00000212928
0.2695	0.39377	ENSG00000188056
0.26947	0.39378	ENSG00000197375
0.26946	0.39379	ENSG00000250067
-0.26941	0.60619	ENSG00000047410
0.26936	0.39383	ENSG00000248905
-0.26928	0.60614	ENSG00000136932
-0.26913	0.60608	ENSG00000143006
-0.26912	0.60608	ENSG00000121388
0.26908	0.39394	ENSG00000144802
-0.26892	0.606	ENSG00000257704
0.26877	0.39405	ENSG00000173875
0.26877	0.39406	ENSG00000102468
0.26875	0.39406	ENSG00000160882
0.2687	0.39408	ENSG00000139263
-0.26867	0.60591	ENSG00000159176
-0.26848	0.60584	ENSG00000183431
0.26848	0.39416	ENSG00000182552
-0.26842	0.60581	ENSG00000110427
-0.26839	0.6058	ENSG00000075420
0.26814	0.3943	ENSG00000108064
0.26799	0.39435	ENSG00000135655
-0.26797	0.60564	ENSG00000241370
0.26787	0.3944	ENSG00000255054
0.26784	0.39441	ENSG00000160993
0.26778	0.39443	ENSG00000109046
0.26773	0.39445	ENSG00000106052
0.26772	0.39446	ENSG00000145287
0.26772	0.39446	ENSG00000170426
0.26768	0.39447	ENSG00000139915

-0.26766	0.60552	ENSG00000161328
-0.26758	0.60549	ENSG00000122420
0.26753	0.39453	ENSG00000205038
-0.26737	0.60541	ENSG00000157368
0.26726	0.39464	ENSG00000107863
-0.26713	0.60531	ENSG00000168582
-0.26711	0.60531	ENSG00000188306
0.26708	0.3947	ENSG00000166368
0.26699	0.39474	ENSG00000092850
-0.26683	0.6052	ENSG00000111641
0.26678	0.39482	ENSG00000115020
-0.26677	0.60518	ENSG00000141519
-0.26669	0.60515	ENSG00000101082
0.26665	0.39487	ENSG00000197467
0.26654	0.39491	ENSG00000122378
0.26648	0.39494	ENSG00000105929
0.26642	0.39496	ENSG00000269964
-0.26641	0.60504	ENSG00000250733
0.26633	0.39499	ENSG00000143632
-0.26619	0.60495	ENSG00000182645
0.26618	0.39505	ENSG00000214237
0.26606	0.3951	ENSG00000198700
0.26593	0.39515	ENSG00000243678
0.26593	0.39515	ENSG00000011052
-0.26586	0.60483	ENSG00000111644
0.26584	0.39518	ENSG00000177082
0.26584	0.39518	ENSG00000160471
-0.26573	0.60478	ENSG00000136522
-0.26558	0.60472	ENSG00000180694
0.26544	0.39534	ENSG00000175087
-0.26537	0.60464	ENSG00000091436
0.26528	0.3954	ENSG00000150457
-0.26527	0.6046	ENSG00000174796
0.26525	0.39541	ENSG00000108523
-0.2652	0.60457	ENSG00000123143
-0.26516	0.60456	ENSG00000153214
-0.26508	0.60453	ENSG00000084207
0.26506	0.39548	ENSG00000203859
0.26501	0.3955	ENSG00000184575
-0.26498	0.60449	ENSG00000134759
0.26493	0.39553	ENSG00000007933
-0.26488	0.60445	ENSG00000180433
0.26486	0.39556	ENSG00000061676
0.26471	0.39562	ENSG00000159648
0.2647	0.39562	ENSG00000154096
0.2647	0.39562	ENSG00000221932
0.26455	0.39568	ENSG00000269058
0.26404	0.39587	ENSG00000177963
-0.26398	0.6041	ENSG00000169750
-0.26397	0.6041	ENSG00000129667
0.26397	0.3959	ENSG00000146701

-0.26389	0.60407	ENSG00000084734
0.26389	0.39593	ENSG00000132382
-0.26385	0.60405	ENSG00000243649
-0.2636	0.60396	ENSG00000174529
-0.26357	0.60394	ENSG00000187778
-0.26354	0.60393	ENSG00000175197
0.26353	0.39607	ENSG00000132591
0.2635	0.39608	ENSG00000198879
-0.26347	0.6039	ENSG00000104915
0.26343	0.39611	ENSG00000112041
-0.26338	0.60387	ENSG00000163535
0.26337	0.39613	ENSG00000143797
-0.26335	0.60386	ENSG00000176393
0.26332	0.39615	ENSG00000267757
-0.26322	0.60381	ENSG00000187257
-0.26321	0.60381	ENSG00000107130
0.26316	0.39622	ENSG00000065328
0.26297	0.39629	ENSG00000239474
-0.26295	0.6037	ENSG00000132024
-0.26284	0.60366	ENSG00000172081
0.26267	0.3964	ENSG00000155111
0.26257	0.39644	ENSG00000109270
-0.26255	0.60355	ENSG00000149658
0.26242	0.3965	ENSG00000081041
-0.26237	0.60348	ENSG00000170948
0.26234	0.39653	ENSG00000160949
0.26224	0.39657	ENSG00000078114
-0.26222	0.60342	ENSG00000182512
-0.26216	0.6034	ENSG00000136715
0.26216	0.3966	ENSG00000186897
-0.26207	0.60337	ENSG00000130748
-0.26181	0.60327	ENSG00000126262
-0.26179	0.60326	ENSG00000067167
0.26175	0.39676	ENSG00000156711
0.26159	0.39682	ENSG00000170634
-0.26154	0.60316	ENSG00000205971
-0.26154	0.60316	ENSG00000111300
0.2615	0.39685	ENSG00000114698
-0.26146	0.60313	ENSG00000106086
0.26141	0.39689	ENSG00000106384
0.26137	0.3969	ENSG00000163515
0.26137	0.3969	ENSG00000136040
-0.26136	0.60309	ENSG00000177465
-0.2613	0.60307	ENSG00000125611
0.2613	0.39693	ENSG00000108733
-0.26124	0.60305	ENSG00000066230
-0.26123	0.60304	ENSG00000080709
-0.26113	0.603	ENSG00000177994
0.26112	0.397	ENSG00000204293
0.26099	0.39705	ENSG00000015676
0.26086	0.3971	ENSG00000138755

-0.26078	0.60287	ENSG00000264424
0.26078	0.39713	ENSG00000198276
-0.26076	0.60286	ENSG00000154478
-0.26076	0.60286	ENSG00000103199
0.26055	0.39722	ENSG00000143061
-0.26031	0.60269	ENSG00000214456
-0.26015	0.60263	ENSG00000112290
-0.26001	0.60257	ENSG00000107758
0.25995	0.39745	ENSG00000268217
-0.25988	0.60252	ENSG00000237452
0.25975	0.39753	ENSG00000196661
-0.25971	0.60246	ENSG00000048462
0.25968	0.39756	ENSG00000089327
-0.25965	0.60243	ENSG00000248751
-0.25956	0.6024	ENSG00000135624
0.25944	0.39765	ENSG00000170703
0.25937	0.39767	ENSG00000177697
-0.25936	0.60232	ENSG00000137269
-0.25935	0.60232	ENSG00000052344
-0.25923	0.60227	ENSG00000075213
-0.25911	0.60223	ENSG00000166292
-0.25905	0.6022	ENSG00000100418
0.25905	0.3978	ENSG00000198836
-0.25896	0.60217	ENSG00000103855
0.2588	0.39789	ENSG00000140905
-0.25875	0.60209	ENSG00000091157
-0.2587	0.60207	ENSG00000165886
0.25869	0.39794	ENSG00000130193
-0.25852	0.602	ENSG00000136999
0.2585	0.39801	ENSG00000086288
-0.25844	0.60197	ENSG00000058335
-0.25832	0.60192	ENSG00000164463
-0.25829	0.60191	ENSG00000168065
-0.25828	0.6019	ENSG00000089060
0.25821	0.39812	ENSG00000112706
-0.25818	0.60187	ENSG00000110786
-0.25813	0.60185	ENSG00000170906
-0.25812	0.60184	ENSG00000178804
-0.25809	0.60183	ENSG00000173401
-0.25808	0.60183	ENSG00000130433
0.25779	0.39828	ENSG00000270466
-0.25772	0.60169	ENSG00000243056
0.25772	0.39831	ENSG00000170606
-0.25767	0.60167	ENSG00000177045
-0.25762	0.60165	ENSG00000181004
-0.25761	0.60164	ENSG00000140545
-0.25756	0.60163	ENSG00000188283
0.25755	0.39838	ENSG00000123843
0.25753	0.39839	ENSG00000173137
-0.25748	0.60159	ENSG00000070367
-0.25745	0.60159	ENSG00000204397

0.25745	0.39842	ENSG00000111424
-0.25736	0.60155	ENSG00000165678
-0.25729	0.60152	ENSG00000106351
-0.25726	0.60151	ENSG00000014914
0.25725	0.39849	ENSG00000089006
0.25721	0.39851	ENSG00000154864
-0.25719	0.60148	ENSG00000125245
-0.25697	0.6014	ENSG00000188305
-0.25688	0.60137	ENSG00000164853
0.25687	0.39864	ENSG00000166743
-0.25683	0.60134	ENSG00000166557
-0.25682	0.60134	ENSG00000196329
-0.25676	0.60132	ENSG00000129167
0.25666	0.39872	ENSG00000182327
-0.25629	0.60114	ENSG00000137478
-0.25624	0.60112	ENSG00000122133
-0.2559	0.60099	ENSG00000215262
0.25589	0.39902	ENSG00000153767
-0.25582	0.60096	ENSG00000155366
0.25582	0.39904	ENSG00000019186
0.25575	0.39907	ENSG00000154997
0.25565	0.39911	ENSG00000162980
-0.25563	0.60088	ENSG00000170759
0.25563	0.39912	ENSG00000129195
0.25559	0.39913	ENSG00000131471
-0.25551	0.60083	ENSG00000198674
-0.25549	0.60083	ENSG00000177511
0.25537	0.39922	ENSG00000086189
-0.25525	0.60073	ENSG00000145626
0.25523	0.39927	ENSG00000163520
0.25523	0.39927	ENSG00000168781
-0.25518	0.60071	ENSG00000113073
0.25516	0.3993	ENSG00000120436
-0.25513	0.60069	ENSG00000128708
-0.25511	0.60068	ENSG00000149218
-0.25506	0.60066	ENSG00000198729
0.25504	0.39935	ENSG00000241945
0.25496	0.39938	ENSG00000166166
0.2549	0.3994	ENSG00000088002
-0.25489	0.6006	ENSG00000205740
-0.2547	0.60052	ENSG00000117899
0.2545	0.39955	ENSG00000144736
-0.25444	0.60042	ENSG00000267740
-0.25442	0.60041	ENSG00000183648
0.25423	0.39966	ENSG00000248643
-0.25408	0.60028	ENSG00000162929
0.25388	0.39979	ENSG00000132465
0.25388	0.3998	ENSG00000119147
0.25386	0.3998	ENSG00000166200
0.25381	0.39982	ENSG00000173421
-0.25377	0.60016	ENSG00000147896

-0.25375	0.60016	ENSG00000111676
-0.25372	0.60014	ENSG00000164941
-0.25371	0.60014	ENSG00000151012
-0.25371	0.60014	ENSG00000079393
-0.25363	0.60011	ENSG00000163206
0.25354	0.39992	ENSG00000134086
-0.2534	0.60002	ENSG00000148153
-0.25335	0.6	ENSG00000231068
-0.25329	0.59998	ENSG00000135447
0.25324	0.40004	ENSG00000143786
-0.25322	0.59995	ENSG00000131236
-0.25317	0.59993	ENSG00000179454
0.25317	0.40007	ENSG00000164219
0.25308	0.4001	ENSG00000170613
-0.2528	0.59979	ENSG00000166147
-0.25275	0.59977	ENSG00000183103
-0.2526	0.59971	ENSG00000092345
-0.25244	0.59965	ENSG00000179294
0.25244	0.40035	ENSG00000120029
-0.25243	0.59965	ENSG00000198176
-0.25237	0.59962	ENSG00000175287
-0.25232	0.5996	ENSG00000107897
-0.25228	0.59959	ENSG00000154328
-0.25225	0.59958	ENSG00000174238
-0.25209	0.59951	ENSG00000138675
-0.25205	0.5995	ENSG00000268427
0.25205	0.4005	ENSG00000268351
0.25197	0.40053	ENSG00000251380
-0.25183	0.59941	ENSG00000221949
-0.25174	0.59938	ENSG00000115761
-0.25173	0.59938	ENSG00000140854
0.2516	0.40067	ENSG00000267531
0.2516	0.40068	ENSG00000170430
0.25144	0.40074	ENSG00000135930
-0.25143	0.59926	ENSG00000132139
-0.25135	0.59923	ENSG00000197416
-0.25112	0.59914	ENSG00000167105
0.25103	0.4009	ENSG00000178026
-0.25102	0.5991	ENSG00000112137
-0.25097	0.59908	ENSG00000145248
0.2508	0.40099	ENSG00000206579
0.25074	0.40101	ENSG00000154655
-0.25069	0.59897	ENSG00000168385
0.25069	0.40103	ENSG00000124678
-0.25065	0.59896	ENSG00000126453
-0.25054	0.59891	ENSG00000100191
-0.25054	0.59892	ENSG00000149636
-0.25052	0.59891	ENSG00000114948
0.25051	0.4011	ENSG00000197061
-0.25048	0.59889	ENSG00000156097
-0.25033	0.59883	ENSG00000177807

0.25029	0.40118	ENSG00000188672
-0.25023	0.5988	ENSG00000184454
0.25022	0.40121	ENSG00000214248
0.25014	0.40124	ENSG00000135083
-0.25008	0.59874	ENSG00000167895
0.25	0.40129	ENSG00000215788
-0.24997	0.5987	ENSG00000177098
0.24996	0.40131	ENSG00000179698
0.24994	0.40132	ENSG00000177294
0.24991	0.40133	ENSG00000165478
-0.24987	0.59866	ENSG00000135314
0.24971	0.4014	ENSG00000120322
-0.24954	0.59853	ENSG00000172878
0.2495	0.40149	ENSG00000186377
0.24941	0.40152	ENSG00000160799
0.24938	0.40153	ENSG00000134490
-0.24937	0.59846	ENSG00000182580
-0.24928	0.59843	ENSG00000143355
-0.24914	0.59837	ENSG00000083099
-0.24913	0.59837	ENSG00000149527
-0.24909	0.59836	ENSG00000183134
0.24902	0.40167	ENSG00000169618
0.24895	0.4017	ENSG00000178127
0.24886	0.40173	ENSG00000111445
-0.2488	0.59824	ENSG00000184271
-0.24875	0.59822	ENSG00000112769
0.24871	0.40179	ENSG00000234438
0.24863	0.40182	ENSG00000183324
0.2485	0.40187	ENSG00000003400
-0.24838	0.59808	ENSG00000143409
0.24838	0.40192	ENSG00000012822
-0.24816	0.598	ENSG00000145794
0.24801	0.40206	ENSG00000164287
-0.24789	0.59789	ENSG00000164758
0.24773	0.40217	ENSG00000176890
0.24767	0.40219	ENSG00000173431
0.24765	0.4022	ENSG00000091409
-0.24761	0.59778	ENSG00000142973
0.24761	0.40222	ENSG00000177685
0.24754	0.40224	ENSG00000130844
-0.24738	0.59769	ENSG00000182902
-0.24737	0.59769	ENSG00000127603
0.24734	0.40232	ENSG00000270181
0.24716	0.40239	ENSG00000156194
-0.24713	0.5976	ENSG00000116649
-0.24701	0.59755	ENSG00000180353
-0.24693	0.59752	ENSG00000119760
0.24693	0.40248	ENSG00000197838
-0.24688	0.5975	ENSG00000171944
-0.24687	0.5975	ENSG00000059377
0.24681	0.40253	ENSG00000255112

0.24675	0.40255	ENSG00000273303
-0.24666	0.59741	ENSG00000186335
-0.24665	0.59741	ENSG00000229644
-0.24663	0.5974	ENSG00000146374
-0.24657	0.59738	ENSG00000088812
0.24649	0.40265	ENSG00000139496
0.24638	0.40269	ENSG00000164867
0.24638	0.4027	ENSG00000180008
-0.24632	0.59728	ENSG00000175866
0.2462	0.40276	ENSG00000110090
0.24619	0.40277	ENSG00000161057
-0.24602	0.59717	ENSG00000127564
-0.246	0.59716	ENSG00000162585
-0.24598	0.59715	ENSG00000042429
0.24591	0.40288	ENSG00000101624
0.24587	0.40289	ENSG00000196345
-0.24586	0.59711	ENSG00000167772
-0.24585	0.5971	ENSG00000227507
-0.24582	0.59709	ENSG00000141027
-0.24571	0.59705	ENSG00000120896
-0.2457	0.59704	ENSG00000161281
-0.24561	0.59701	ENSG00000134253
0.24561	0.40299	ENSG00000258466
-0.24553	0.59698	ENSG00000197632
0.24552	0.40303	ENSG00000024862
0.24552	0.40303	ENSG00000111711
0.24536	0.40309	ENSG00000091536
0.24516	0.40316	ENSG00000105464
-0.24504	0.59679	ENSG00000008516
-0.24493	0.59675	ENSG00000142546
-0.24491	0.59674	ENSG00000106100
0.24489	0.40327	ENSG00000184838
0.24486	0.40328	ENSG00000112715
-0.24483	0.59671	ENSG00000143324
0.24482	0.4033	ENSG00000116030
0.24468	0.40335	ENSG00000138311
0.24458	0.40339	ENSG00000136250
0.24456	0.4034	ENSG00000179615
0.24454	0.40341	ENSG00000134376
-0.24445	0.59656	ENSG00000204296
0.24445	0.40344	ENSG00000196943
-0.24438	0.59653	ENSG00000132554
-0.24438	0.59653	ENSG00000132000
-0.24436	0.59652	ENSG00000178999
-0.24433	0.59651	ENSG00000163479
-0.24427	0.59649	ENSG00000147459
0.24427	0.40351	ENSG00000008323
0.24426	0.40352	ENSG00000161618
0.24425	0.40352	ENSG00000065183
-0.24423	0.59647	ENSG00000157423
-0.24423	0.59648	ENSG00000162897

0.24421	0.40353	ENSG00000124459
0.24413	0.40357	ENSG00000146476
0.24409	0.40358	ENSG00000131379
-0.24405	0.5964	ENSG00000143436
-0.2438	0.59631	ENSG00000115970
0.2438	0.40369	ENSG00000140807
0.24378	0.4037	ENSG00000142920
-0.24369	0.59627	ENSG00000166896
-0.24359	0.59623	ENSG00000130529
0.24358	0.40378	ENSG00000073350
-0.24352	0.5962	ENSG00000179755
-0.24349	0.59619	ENSG00000072736
-0.24333	0.59613	ENSG00000101367
-0.24332	0.59612	ENSG00000174327
-0.24325	0.59609	ENSG00000143365
-0.24324	0.59609	ENSG00000138629
-0.24314	0.59605	ENSG00000122547
-0.24306	0.59602	ENSG00000196353
-0.24301	0.596	ENSG00000253459
0.24297	0.40402	ENSG00000157036
0.24294	0.40403	ENSG00000081320
0.24291	0.40404	ENSG00000144744
0.24288	0.40405	ENSG00000156284
0.24285	0.40406	ENSG00000006837
-0.24282	0.59593	ENSG00000182168
-0.24282	0.59593	ENSG00000108854
0.2428	0.40408	ENSG00000183250
0.24278	0.40409	ENSG00000135365
-0.24276	0.5959	ENSG00000073861
-0.24262	0.59585	ENSG00000124140
0.2426	0.40416	ENSG00000108061
-0.24227	0.59572	ENSG00000114631
-0.24221	0.59569	ENSG00000119711
0.24209	0.40435	ENSG00000146463
-0.242	0.59561	ENSG00000138792
-0.24197	0.5956	ENSG00000150681
-0.24197	0.5956	ENSG00000156858
0.24195	0.40441	ENSG00000185803
-0.24175	0.59551	ENSG00000177673
-0.24174	0.59551	ENSG00000006607
-0.24171	0.5955	ENSG00000124783
0.24168	0.40451	ENSG00000144713
-0.24165	0.59547	ENSG00000096654
0.24163	0.40453	ENSG00000169783
-0.24138	0.59537	ENSG00000115232
0.24133	0.40465	ENSG00000123737
0.2413	0.40466	ENSG00000136603
-0.24126	0.59532	ENSG00000198246
-0.24125	0.59532	ENSG00000128928
-0.24123	0.59531	ENSG00000066084
-0.24106	0.59524	ENSG00000169862

-0.24105	0.59524	ENSG00000136937
-0.24102	0.59523	ENSG00000133226
-0.24102	0.59523	ENSG00000163528
-0.24102	0.59523	ENSG00000163815
-0.24083	0.59515	ENSG00000215305
0.24082	0.40485	ENSG00000109118
-0.24077	0.59514	ENSG00000188822
0.24047	0.40498	ENSG00000152463
0.24045	0.40499	ENSG00000123427
-0.2404	0.59499	ENSG00000162889
-0.2404	0.59499	ENSG00000157388
-0.24039	0.59498	ENSG00000185658
0.24031	0.40504	ENSG00000080822
-0.24024	0.59493	ENSG00000171401
-0.24021	0.59492	ENSG00000205643
0.24019	0.40509	ENSG00000214215
-0.2401	0.59488	ENSG00000186795
-0.24008	0.59487	ENSG00000143167
0.24	0.40516	ENSG00000136867
-0.23999	0.59483	ENSG00000166004
-0.23992	0.5948	ENSG00000134265
-0.2399	0.5948	ENSG00000176566
0.2398	0.40524	ENSG00000177425
0.23973	0.40527	ENSG00000102858
0.23969	0.40528	ENSG00000205838
0.23941	0.40539	ENSG00000188921
-0.23938	0.5946	ENSG00000272410
0.23938	0.40541	ENSG00000175592
0.23934	0.40542	ENSG00000130943
0.2393	0.40544	ENSG00000181495
0.23926	0.40545	ENSG00000037042
0.23923	0.40547	ENSG00000111581
-0.23922	0.59453	ENSG00000170166
-0.23919	0.59452	ENSG00000119185
-0.23907	0.59447	ENSG00000181444
-0.23907	0.59447	ENSG00000101745
0.23898	0.40556	ENSG00000114204
0.23898	0.40556	ENSG00000101353
-0.23894	0.59442	ENSG00000144908
0.23887	0.4056	ENSG00000126861
0.2387	0.40567	ENSG00000170509
0.23869	0.40567	ENSG00000144152
0.23869	0.40567	ENSG00000144712
0.23868	0.40568	ENSG00000177565
-0.23856	0.59428	ENSG00000114115
-0.23837	0.5942	ENSG00000164466
-0.23834	0.59419	ENSG00000205560
0.23833	0.40581	ENSG00000159248
0.23829	0.40583	ENSG00000107719
0.23815	0.40588	ENSG00000187474
0.23814	0.40588	ENSG00000189171

-0.23807	0.59409	ENSG00000204345
0.23804	0.40592	ENSG00000272896
0.23786	0.406	ENSG00000205808
-0.2378	0.59398	ENSG00000120616
-0.2378	0.59398	ENSG00000108349
-0.23772	0.59395	ENSG00000134198
-0.23772	0.59395	ENSG00000131368
-0.23771	0.59395	ENSG00000074416
-0.23768	0.59394	ENSG00000104497
0.23762	0.40609	ENSG00000143376
-0.23758	0.5939	ENSG00000183665
0.23758	0.4061	ENSG00000160285
0.23752	0.40613	ENSG00000148291
0.23751	0.40613	ENSG00000174943
0.23727	0.40622	ENSG00000142252
0.23726	0.40623	ENSG00000164885
0.23724	0.40623	ENSG00000114021
-0.23721	0.59375	ENSG00000174792
-0.23712	0.59372	ENSG00000099290
-0.2371	0.59371	ENSG00000147654
0.2371	0.40629	ENSG00000157107
-0.23703	0.59368	ENSG00000039319
0.237	0.40633	ENSG00000130340
-0.23687	0.59362	ENSG00000055957
0.23686	0.40638	ENSG00000172175
-0.23678	0.59359	ENSG00000196109
0.23648	0.40653	ENSG00000166140
0.23645	0.40654	ENSG00000196071
0.23642	0.40655	ENSG00000173559
-0.23634	0.59342	ENSG00000137731
-0.23623	0.59337	ENSG00000165837
-0.23619	0.59336	ENSG00000171858
0.23611	0.40667	ENSG00000186049
0.23606	0.40669	ENSG00000137767
0.23602	0.40671	ENSG00000161681
0.23597	0.40673	ENSG00000186448
-0.23593	0.59326	ENSG00000105889
-0.23592	0.59325	ENSG00000141668
0.23589	0.40676	ENSG00000185133
-0.23573	0.59318	ENSG00000164136
-0.23553	0.5931	ENSG00000174371
0.2355	0.40691	ENSG00000168314
0.23545	0.40693	ENSG00000100593
0.2354	0.40695	ENSG00000087008
-0.23536	0.59304	ENSG00000214226
0.23536	0.40696	ENSG00000168824
-0.23525	0.59299	ENSG00000215193
-0.23525	0.59299	ENSG00000167077
0.23488	0.40715	ENSG00000121057
0.23484	0.40717	ENSG00000156990
-0.23477	0.59281	ENSG00000079819

-0.23471	0.59278	ENSG00000095066
-0.23463	0.59275	ENSG00000157181
-0.23461	0.59275	ENSG00000133619
-0.23452	0.59271	ENSG00000157800
-0.23443	0.59267	ENSG00000184949
-0.23432	0.59263	ENSG00000213341
0.23431	0.40737	ENSG00000158077
0.23427	0.40739	ENSG00000179820
0.23426	0.40739	ENSG00000257184
-0.23418	0.59258	ENSG00000110079
0.23417	0.40743	ENSG00000269242
-0.2341	0.59255	ENSG00000182077
-0.23398	0.5925	ENSG00000168255
0.23395	0.40751	ENSG00000233828
0.23395	0.40751	ENSG00000198478
0.23391	0.40753	ENSG00000179855
0.23382	0.40756	ENSG00000177301
0.23379	0.40757	ENSG00000159579
-0.23374	0.59241	ENSG00000136231
0.23374	0.40759	ENSG00000266208
-0.23372	0.5924	ENSG00000197921
-0.23371	0.59239	ENSG00000211445
-0.23364	0.59237	ENSG00000130787
0.2336	0.40765	ENSG00000124449
-0.23351	0.59232	ENSG00000162441
-0.23347	0.5923	ENSG00000108423
-0.23338	0.59227	ENSG00000104728
0.23336	0.40774	ENSG00000196458
0.23334	0.40775	ENSG00000129009
0.23327	0.40778	ENSG00000170324
0.23321	0.4078	ENSG00000255748
0.23319	0.40781	ENSG00000150764
0.23315	0.40782	ENSG00000171987
0.23311	0.40784	ENSG00000090863
0.23304	0.40787	ENSG00000108825
0.23302	0.40787	ENSG00000119782
-0.23296	0.5921	ENSG00000145214
0.23293	0.40791	ENSG00000212901
0.23278	0.40797	ENSG00000175262
0.23273	0.40799	ENSG00000120256
-0.23265	0.59198	ENSG00000163939
0.23262	0.40803	ENSG00000131374
0.23247	0.40809	ENSG00000129084
0.23238	0.40812	ENSG00000164241
0.23226	0.40817	ENSG00000167941
0.23214	0.40821	ENSG00000070718
-0.23199	0.59173	ENSG00000152291
0.23192	0.4083	ENSG00000171310
-0.23186	0.59168	ENSG00000077097
0.23181	0.40834	ENSG00000149922
0.23178	0.40835	ENSG00000166569

-0.23171	0.59162	ENSG00000145040
0.23141	0.4085	ENSG00000166603
0.23138	0.40851	ENSG00000196950
0.23127	0.40855	ENSG00000165813
0.23121	0.40858	ENSG00000168928
-0.23117	0.59141	ENSG00000231738
-0.23117	0.59141	ENSG00000188171
-0.23111	0.59138	ENSG00000137819
-0.23107	0.59137	ENSG00000134438
0.23107	0.40863	ENSG00000128000
-0.2308	0.59126	ENSG00000198929
0.23073	0.40876	ENSG00000185177
0.23071	0.40877	ENSG00000186205
-0.23069	0.59122	ENSG00000188095
0.23065	0.40879	ENSG00000155189
0.23064	0.4088	ENSG00000100600
0.23062	0.4088	ENSG00000221910
0.23045	0.40887	ENSG00000150672
0.23043	0.40888	ENSG00000163975
0.23037	0.4089	ENSG00000165953
0.23036	0.40891	ENSG00000122482
0.23024	0.40895	ENSG00000072840
-0.23015	0.59101	ENSG00000008130
-0.23015	0.59101	ENSG00000149212
-0.23012	0.591	ENSG00000118017
0.23012	0.409	ENSG00000196296
-0.23009	0.59099	ENSG00000154319
-0.23006	0.59098	ENSG00000183166
0.23006	0.40902	ENSG00000141338
-0.23005	0.59097	ENSG00000214708
0.22996	0.40906	ENSG00000176261
-0.22992	0.59092	ENSG00000164256
0.22988	0.40909	ENSG00000167483
0.22979	0.40913	ENSG00000188001
-0.22972	0.59084	ENSG00000152684
0.22959	0.40921	ENSG00000263002
-0.22952	0.59077	ENSG00000185742
0.22929	0.40932	ENSG00000150261
-0.22925	0.59066	ENSG00000128607
-0.22923	0.59065	ENSG00000113749
-0.2292	0.59064	ENSG00000163519
-0.22914	0.59062	ENSG00000151725
-0.22911	0.59061	ENSG00000162413
-0.22909	0.5906	ENSG00000118523
-0.22907	0.59059	ENSG00000112473
0.22905	0.40942	ENSG00000175077
0.22892	0.40946	ENSG00000105323
-0.2289	0.59053	ENSG00000180305
-0.22886	0.59051	ENSG00000249861
0.22878	0.40952	ENSG00000258474
0.22875	0.40953	ENSG00000163291

-0.22873	0.59046	ENSG00000267385
0.22867	0.40956	ENSG00000139428
-0.22856	0.59039	ENSG00000129226
0.22856	0.4096	ENSG00000078902
-0.22836	0.59032	ENSG00000145715
0.22832	0.4097	ENSG00000186529
0.22812	0.40978	ENSG00000150455
-0.22788	0.59013	ENSG00000213949
0.22787	0.40987	ENSG00000141371
-0.2278	0.5901	ENSG00000197238
0.2277	0.40994	ENSG00000107262
-0.22761	0.59002	ENSG00000066455
0.2276	0.40998	ENSG00000116580
0.22751	0.41001	ENSG00000141867
-0.22735	0.58993	ENSG00000263588
-0.22732	0.58991	ENSG00000117148
-0.22732	0.58991	ENSG00000169877
-0.22723	0.58988	ENSG00000112559
-0.22721	0.58987	ENSG00000146386
0.22717	0.41015	ENSG00000163545
-0.22709	0.58982	ENSG00000158497
0.22705	0.41019	ENSG00000115956
-0.22704	0.5898	ENSG00000136371
0.2269	0.41025	ENSG00000187475
-0.22686	0.58973	ENSG00000167656
0.22682	0.41028	ENSG00000251012
0.22681	0.41028	ENSG00000149136
-0.22676	0.5897	ENSG00000049759
-0.22662	0.58964	ENSG00000166006
0.2266	0.41037	ENSG00000255730
-0.22658	0.58962	ENSG00000141655
0.22649	0.41041	ENSG00000175984
-0.22646	0.58958	ENSG00000173894
-0.2263	0.58951	ENSG00000260903
0.22613	0.41055	ENSG00000172728
0.22595	0.41062	ENSG00000134874
0.22584	0.41066	ENSG00000186910
0.22571	0.41071	ENSG00000186908
0.22568	0.41073	ENSG00000154710
-0.22562	0.58925	ENSG00000108239
0.2256	0.41076	ENSG00000164902
-0.22558	0.58924	ENSG00000119431
-0.22556	0.58923	ENSG00000188487
0.22554	0.41078	ENSG00000138623
-0.22545	0.58919	ENSG00000196381
0.22538	0.41084	ENSG00000255330
0.22538	0.41084	ENSG00000214338
0.22527	0.41088	ENSG00000204103
-0.22526	0.58911	ENSG00000166352
0.22495	0.41101	ENSG00000118579
-0.22481	0.58893	ENSG00000176472

-0.22474	0.58891	ENSG00000148450
0.22469	0.41111	ENSG00000119965
-0.22468	0.58888	ENSG00000138443
0.22456	0.41116	ENSG00000163749
-0.22455	0.58883	ENSG00000171408
-0.22448	0.58881	ENSG00000135241
0.22442	0.41121	ENSG00000174562
0.22441	0.41122	ENSG00000123977
0.22437	0.41124	ENSG00000156206
-0.22421	0.5887	ENSG00000171217
-0.2242	0.5887	ENSG00000174276
0.2241	0.41134	ENSG00000141580
0.22401	0.41138	ENSG00000129048
0.224	0.41138	ENSG00000188517
0.22399	0.41138	ENSG00000086504
-0.22396	0.58861	ENSG00000119326
-0.2239	0.58858	ENSG00000232382
-0.22384	0.58856	ENSG00000224689
-0.22382	0.58855	ENSG00000154654
0.22379	0.41146	ENSG00000269554
0.22373	0.41148	ENSG00000122477
-0.22369	0.5885	ENSG00000163497
0.22366	0.41151	ENSG00000100206
-0.22365	0.58849	ENSG00000100083
-0.22364	0.58848	ENSG00000104413
0.22358	0.41154	ENSG00000162627
-0.22352	0.58843	ENSG00000113048
-0.22343	0.5884	ENSG00000268126
-0.22341	0.58839	ENSG00000175600
0.22334	0.41164	ENSG00000185271
-0.22332	0.58836	ENSG00000159915
-0.22331	0.58835	ENSG00000205758
0.22331	0.41165	ENSG00000100902
0.22314	0.41171	ENSG00000182177
0.22307	0.41174	ENSG00000130706
0.22294	0.41179	ENSG00000105388
-0.22291	0.5882	ENSG00000165724
-0.22291	0.5882	ENSG00000256950
-0.22288	0.58819	ENSG00000132589
-0.22283	0.58817	ENSG00000175344
-0.22272	0.58812	ENSG00000148688
0.22272	0.41187	ENSG00000179002
-0.22269	0.58811	ENSG00000011260
-0.22266	0.5881	ENSG00000234602
-0.22253	0.58805	ENSG00000258064
-0.22233	0.58797	ENSG00000088543
0.22232	0.41203	ENSG00000181036
-0.2223	0.58796	ENSG00000151572
0.2223	0.41204	ENSG00000160410
-0.22222	0.58793	ENSG00000265944
-0.22207	0.58787	ENSG00000198963

0.22205	0.41214	ENSG00000038210
-0.22195	0.58782	ENSG00000072954
-0.22192	0.58781	ENSG00000204128
-0.22192	0.58781	ENSG00000185043
0.2219	0.4122	ENSG00000004948
-0.22188	0.5878	ENSG00000154310
0.22173	0.41226	ENSG00000040731
-0.2216	0.58769	ENSG00000033122
0.22158	0.41232	ENSG00000176231
-0.22156	0.58767	ENSG00000067365
0.22155	0.41233	ENSG00000139946
-0.22153	0.58766	ENSG00000187461
-0.22149	0.58764	ENSG00000133574
-0.22145	0.58763	ENSG00000254413
-0.22136	0.5876	ENSG00000170396
0.22081	0.41262	ENSG00000089127
-0.22068	0.58733	ENSG00000105339
-0.22067	0.58733	ENSG00000122335
-0.22063	0.58731	ENSG00000100376
0.22059	0.41271	ENSG00000117450
-0.22042	0.58723	ENSG00000269259
-0.22024	0.58716	ENSG00000180423
-0.22011	0.58711	ENSG00000179314
-0.22003	0.58707	ENSG00000150687
-0.21995	0.58704	ENSG00000153002
-0.21993	0.58704	ENSG00000130520
0.21983	0.413	ENSG00000204634
0.21964	0.41307	ENSG00000068137
-0.21961	0.58691	ENSG00000251664
0.21951	0.41313	ENSG00000186265
-0.2195	0.58687	ENSG00000114302
0.21946	0.41315	ENSG00000129596
0.21942	0.41316	ENSG00000132388
0.21941	0.41316	ENSG00000135245
0.2192	0.41325	ENSG00000107819
0.21909	0.41329	ENSG00000204628
0.21906	0.4133	ENSG00000128973
-0.21902	0.58668	ENSG00000185950
0.21896	0.41334	ENSG00000164694
-0.21883	0.58661	ENSG00000164048
-0.21882	0.5866	ENSG00000089094
0.2187	0.41344	ENSG00000161664
0.21859	0.41348	ENSG00000174243
0.21822	0.41363	ENSG00000083844
0.2182	0.41364	ENSG00000185303
-0.21817	0.58635	ENSG00000220891
0.21806	0.41369	ENSG00000163918
0.218	0.41371	ENSG00000133739
-0.21799	0.58628	ENSG00000185379
-0.21788	0.58624	ENSG00000173597
0.21781	0.41379	ENSG00000188315

-0.21773	0.58618	ENSG00000134690
-0.21766	0.58615	ENSG00000197562
0.21766	0.41385	ENSG00000100239
0.21765	0.41385	ENSG00000111962
0.21764	0.41385	ENSG00000198363
0.21761	0.41387	ENSG00000198518
-0.21759	0.58613	ENSG00000156398
-0.2175	0.58609	ENSG00000134899
0.21739	0.41395	ENSG00000143603
0.21737	0.41396	ENSG00000101189
0.21727	0.414	ENSG00000121381
-0.21724	0.58599	ENSG00000167685
-0.21716	0.58596	ENSG00000028528
0.21703	0.41409	ENSG00000162746
-0.21699	0.58589	ENSG00000204310
0.21684	0.41417	ENSG00000105967
0.21683	0.41417	ENSG00000270106
-0.21676	0.5858	ENSG00000108797
0.21668	0.41423	ENSG00000125520
0.21659	0.41426	ENSG00000122687
0.21653	0.41429	ENSG00000065833
-0.21652	0.58571	ENSG00000189046
-0.2165	0.5857	ENSG00000111913
0.21637	0.41435	ENSG00000129292
-0.21615	0.58556	ENSG00000115661
0.21614	0.41444	ENSG00000185942
-0.21608	0.58554	ENSG00000093144
-0.21608	0.58554	ENSG00000142541
0.21603	0.41448	ENSG00000205683
-0.21591	0.58547	ENSG00000172322
0.21589	0.41453	ENSG00000184178
0.21573	0.4146	ENSG00000115307
0.21561	0.41465	ENSG00000162419
-0.21559	0.58534	ENSG00000068615
-0.21558	0.58534	ENSG00000164182
0.21551	0.41468	ENSG00000160223
-0.21549	0.58531	ENSG00000198718
-0.21506	0.58514	ENSG00000151883
-0.21504	0.58513	ENSG00000147536
0.21504	0.41487	ENSG00000148218
0.21498	0.41489	ENSG00000146232
0.2147	0.415	ENSG00000179468
-0.21468	0.58499	ENSG00000125144
0.21467	0.41501	ENSG00000104093
-0.21466	0.58499	ENSG00000137265
-0.21464	0.58498	ENSG00000188279
-0.21461	0.58496	ENSG00000006074
-0.21454	0.58494	ENSG00000023572
0.21442	0.41511	ENSG00000203691
-0.21439	0.58488	ENSG00000100558
-0.21414	0.58478	ENSG00000107447

-0.2141	0.58476	ENSG00000166860
0.21408	0.41524	ENSG00000236320
-0.21398	0.58472	ENSG00000196505
-0.21397	0.58472	ENSG00000268706
0.21389	0.41532	ENSG00000111732
0.21384	0.41534	ENSG00000140319
-0.21367	0.5846	ENSG00000196800
-0.21366	0.58459	ENSG00000119938
0.21365	0.41541	ENSG00000269657
-0.21355	0.58455	ENSG00000113712
0.21331	0.41554	ENSG00000253729
-0.21325	0.58443	ENSG00000182253
-0.21317	0.5844	ENSG00000181666
-0.21315	0.58439	ENSG00000117533
-0.2129	0.5843	ENSG00000166526
-0.21279	0.58425	ENSG00000177606
0.21279	0.41574	ENSG00000131242
-0.21275	0.58424	ENSG00000183807
-0.21264	0.5842	ENSG00000184478
-0.21231	0.58407	ENSG00000051825
0.21226	0.41595	ENSG00000160570
-0.21225	0.58404	ENSG00000241852
0.21206	0.41603	ENSG00000111452
0.21206	0.41603	ENSG00000094804
0.21203	0.41604	ENSG00000112115
0.212	0.41606	ENSG00000141542
0.21198	0.41606	ENSG00000196526
0.21198	0.41606	ENSG00000122884
-0.21196	0.58393	ENSG00000159674
0.21194	0.41608	ENSG00000008083
0.21183	0.41612	ENSG00000115234
-0.21181	0.58387	ENSG00000110876
-0.21138	0.5837	ENSG00000174307
0.21129	0.41633	ENSG00000008838
-0.21127	0.58366	ENSG00000146090
-0.2112	0.58363	ENSG00000163295
0.21116	0.41638	ENSG00000268361
-0.21111	0.5836	ENSG00000267880
0.21111	0.4164	ENSG00000175646
0.21107	0.41642	ENSG00000181751
0.21104	0.41643	ENSG00000164619
0.21087	0.41649	ENSG00000078747
0.21087	0.4165	ENSG00000155592
0.21086	0.4165	ENSG00000266614
0.2107	0.41656	ENSG00000245680
-0.21069	0.58344	ENSG00000111254
0.21068	0.41657	ENSG00000128645
0.21068	0.41657	ENSG00000249209
-0.2106	0.5834	ENSG00000250254
-0.21049	0.58336	ENSG00000251184
-0.21048	0.58335	ENSG00000183921

-0.21041	0.58333	ENSG00000267824
0.21038	0.41669	ENSG00000213424
-0.21031	0.58329	ENSG00000152127
-0.21029	0.58328	ENSG00000074211
-0.21026	0.58327	ENSG00000197858
0.21025	0.41674	ENSG00000168899
0.21005	0.41681	ENSG00000111276
-0.20988	0.58312	ENSG00000156853
0.20986	0.41689	ENSG00000175063
0.20979	0.41691	ENSG00000100628
0.20978	0.41692	ENSG00000136717
-0.20971	0.58305	ENSG00000115339
-0.20964	0.58302	ENSG00000269430
0.20957	0.417	ENSG00000164877
0.20957	0.417	ENSG00000185664
0.20956	0.41701	ENSG00000184672
-0.20938	0.58293	ENSG00000261190
0.20933	0.4171	ENSG00000130294
-0.20931	0.58289	ENSG00000178015
-0.20921	0.58286	ENSG00000204923
-0.2092	0.58286	ENSG00000089169
0.2092	0.41715	ENSG00000106089
-0.20913	0.58283	ENSG00000116191
-0.20905	0.5828	ENSG00000171772
0.20903	0.41721	ENSG00000205301
-0.20899	0.58277	ENSG00000157827
0.20899	0.41723	ENSG00000104518
-0.20884	0.58271	ENSG00000127948
-0.20869	0.58265	ENSG00000146013
0.2086	0.41738	ENSG00000198093
0.20853	0.41741	ENSG00000078369
-0.20829	0.5825	ENSG00000221916
0.2081	0.41757	ENSG00000134146
-0.20804	0.5824	ENSG00000186806
0.20794	0.41764	ENSG00000163328
0.20794	0.41764	ENSG00000129270
-0.20786	0.58233	ENSG00000141448
0.20778	0.4177	ENSG00000175756
-0.20764	0.58224	ENSG00000158486
0.20761	0.41777	ENSG00000077238
0.20755	0.41779	ENSG00000142687
0.20751	0.4178	ENSG00000055483
-0.20746	0.58217	ENSG00000172243
0.20745	0.41783	ENSG00000180745
-0.20735	0.58213	ENSG00000104388
-0.20734	0.58213	ENSG00000104823
0.20702	0.418	ENSG00000171451
0.20701	0.418	ENSG00000212938
-0.20699	0.58199	ENSG00000132646
0.20696	0.41802	ENSG00000186493
-0.20694	0.58197	ENSG00000224870

0.20687	0.41806	ENSG00000149243
-0.20685	0.58194	ENSG00000124466
-0.20679	0.58191	ENSG00000103066
0.20676	0.4181	ENSG00000140274
0.20674	0.41811	ENSG00000148468
-0.20672	0.58188	ENSG00000256294
-0.20631	0.58173	ENSG00000145451
-0.20627	0.58171	ENSG00000151490
-0.20614	0.58166	ENSG00000165280
0.20607	0.41837	ENSG00000204876
0.20599	0.4184	ENSG00000268688
-0.20597	0.58159	ENSG00000136021
-0.20596	0.58159	ENSG00000136146
0.20591	0.41843	ENSG00000070950
0.20589	0.41844	ENSG00000168769
0.20589	0.41844	ENSG00000111331
0.20589	0.41844	ENSG00000011243
0.20586	0.41845	ENSG00000143373
-0.20572	0.58149	ENSG00000078098
-0.20567	0.58148	ENSG00000184524
-0.20563	0.58146	ENSG00000013306
0.20561	0.41855	ENSG00000148156
-0.20548	0.5814	ENSG00000267173
-0.20541	0.58137	ENSG00000249158
-0.20537	0.58136	ENSG00000167130
0.20533	0.41866	ENSG00000172115
-0.20524	0.58131	ENSG00000267883
-0.20521	0.58129	ENSG00000132205
0.20514	0.41873	ENSG00000119630
-0.20494	0.58119	ENSG00000222009
-0.20493	0.58119	ENSG00000140043
0.20455	0.41896	ENSG00000188707
0.20448	0.41899	ENSG00000078053
0.20441	0.41902	ENSG00000108179
-0.2042	0.5809	ENSG00000117308
0.20412	0.41913	ENSG00000117448
0.20404	0.41916	ENSG00000178209
0.20396	0.41919	ENSG00000214413
-0.20395	0.5808	ENSG00000137831
0.20394	0.4192	ENSG00000203813
0.20386	0.41923	ENSG00000126267
0.20381	0.41925	ENSG00000196712
0.20336	0.41943	ENSG00000052749
0.20329	0.41945	ENSG00000161940
-0.20303	0.58044	ENSG00000135968
-0.20294	0.58041	ENSG00000079999
-0.20289	0.58039	ENSG00000140497
-0.20274	0.58033	ENSG00000142676
0.20273	0.41967	ENSG00000173366
-0.20261	0.58028	ENSG00000179455
0.20258	0.41973	ENSG00000131115

0.20256	0.41974	ENSG00000182858
0.20253	0.41975	ENSG00000149313
-0.20252	0.58024	ENSG00000214050
0.20252	0.41976	ENSG00000173065
0.20238	0.41981	ENSG00000122873
-0.20237	0.58019	ENSG00000092054
-0.20227	0.58015	ENSG00000166736
-0.20226	0.58014	ENSG00000129347
-0.20225	0.58014	ENSG00000177943
0.20222	0.41987	ENSG00000143162
0.20216	0.4199	ENSG00000172199
0.2021	0.41992	ENSG00000090020
0.20208	0.41993	ENSG00000180035
0.20204	0.41994	ENSG00000185028
-0.20197	0.58003	ENSG00000042781
0.20189	0.42	ENSG00000245017
0.20152	0.42015	ENSG00000005436
-0.20149	0.57984	ENSG00000157060
-0.20144	0.57982	ENSG00000137558
-0.20123	0.57974	ENSG00000149716
0.20122	0.42026	ENSG00000099834
0.20116	0.42029	ENSG00000167759
-0.20115	0.57971	ENSG00000075151
0.20115	0.42029	ENSG00000168952
-0.20111	0.57969	ENSG00000113161
0.20109	0.42031	ENSG00000184743
-0.20092	0.57962	ENSG00000154144
0.2008	0.42043	ENSG00000124102
-0.20075	0.57955	ENSG00000106244
-0.20061	0.5795	ENSG00000108100
-0.20038	0.57941	ENSG00000166266
0.20016	0.42068	ENSG00000102879
-0.2001	0.5793	ENSG00000138326
-0.19983	0.57919	ENSG00000167721
-0.19968	0.57914	ENSG00000170734
-0.19967	0.57913	ENSG00000100442
0.19954	0.42092	ENSG00000172466
0.19949	0.42094	ENSG00000164736
-0.19928	0.57898	ENSG00000117602
-0.19925	0.57897	ENSG00000134531
-0.19912	0.57891	ENSG00000157992
-0.19912	0.57891	ENSG00000183060
-0.19909	0.5789	ENSG00000078795
-0.19903	0.57888	ENSG00000138061
0.1988	0.42121	ENSG00000177954
0.19875	0.42123	ENSG00000004975
-0.1987	0.57875	ENSG00000105664
0.19841	0.42136	ENSG00000017373
0.1984	0.42137	ENSG00000157766
-0.19839	0.57863	ENSG00000188211
0.19837	0.42138	ENSG00000196091

0.19829	0.42141	ENSG00000167986
0.19828	0.42141	ENSG00000179111
0.19816	0.42146	ENSG00000180979
0.19812	0.42147	ENSG00000271092
-0.19806	0.5785	ENSG00000104827
-0.19799	0.57847	ENSG00000111344
-0.19797	0.57847	ENSG00000173757
0.19796	0.42154	ENSG00000204334
0.19789	0.42157	ENSG00000111052
0.19771	0.42164	ENSG00000136059
-0.19763	0.57833	ENSG00000144136
-0.19755	0.5783	ENSG00000157227
-0.19738	0.57823	ENSG00000197162
-0.19728	0.5782	ENSG00000182359
-0.19714	0.57814	ENSG00000151466
0.19707	0.42189	ENSG00000187908
0.197	0.42191	ENSG00000101335
-0.19697	0.57807	ENSG00000164172
0.19687	0.42197	ENSG00000184185
0.19676	0.42201	ENSG00000081665
-0.19667	0.57796	ENSG00000114248
-0.19663	0.57794	ENSG00000134330
0.19655	0.42209	ENSG00000086544
-0.19648	0.57788	ENSG00000196341
-0.19645	0.57787	ENSG00000038532
-0.19644	0.57787	ENSG00000160087
-0.19638	0.57784	ENSG00000101544
0.19637	0.42216	ENSG00000113905
-0.19633	0.57782	ENSG00000196154
0.19633	0.42218	ENSG00000153113
0.19623	0.42221	ENSG00000172361
0.19621	0.42222	ENSG00000155906
-0.19612	0.57774	ENSG00000187492
-0.19608	0.57773	ENSG00000180347
-0.19601	0.5777	ENSG00000177143
0.196	0.42231	ENSG00000125637
-0.19597	0.57768	ENSG00000231389
-0.19596	0.57768	ENSG00000186026
-0.19592	0.57766	ENSG00000006468
-0.19585	0.57763	ENSG00000223417
-0.19585	0.57764	ENSG00000165521
-0.19579	0.57761	ENSG00000076984
0.1957	0.42242	ENSG00000101150
-0.19561	0.57754	ENSG00000213215
0.19537	0.42255	ENSG00000175874
-0.19534	0.57743	ENSG00000169567
0.19533	0.42257	ENSG00000213614
0.19532	0.42257	ENSG00000215545
0.19525	0.4226	ENSG00000163170
0.19525	0.4226	ENSG00000174957
-0.19518	0.57737	ENSG00000104687

0.19518	0.42262	ENSG00000103375
0.19508	0.42266	ENSG00000173085
0.19488	0.42274	ENSG00000185187
-0.19486	0.57725	ENSG00000071051
-0.19473	0.5772	ENSG00000118137
0.1946	0.42285	ENSG00000188092
0.19456	0.42287	ENSG00000040933
0.1945	0.42289	ENSG00000226490
0.19422	0.423	ENSG00000198673
0.1942	0.42301	ENSG00000185565
0.19411	0.42305	ENSG00000089234
-0.19401	0.57692	ENSG00000162624
0.19399	0.42309	ENSG00000173673
-0.19398	0.5769	ENSG00000182952
-0.19396	0.5769	ENSG00000260537
0.19392	0.42312	ENSG00000185189
0.19389	0.42313	ENSG00000185989
0.19367	0.42322	ENSG00000134326
0.19356	0.42326	ENSG00000083168
0.19355	0.42326	ENSG00000182450
-0.19344	0.57669	ENSG00000156639
-0.19335	0.57666	ENSG00000105122
-0.19313	0.57657	ENSG00000160753
-0.19304	0.57653	ENSG00000169045
-0.193	0.57652	ENSG00000101435
-0.19287	0.57647	ENSG00000014138
-0.19281	0.57645	ENSG00000151726
-0.1928	0.57644	ENSG00000100033
0.19275	0.42358	ENSG00000095319
-0.19269	0.5764	ENSG00000101542
0.1926	0.42363	ENSG00000184995
-0.19253	0.57634	ENSG00000175166
-0.19248	0.57632	ENSG00000077498
-0.19246	0.57631	ENSG00000169876
0.1924	0.42371	ENSG00000172164
-0.1922	0.57621	ENSG00000182070
-0.19217	0.57619	ENSG00000112761
0.19215	0.42381	ENSG00000269042
0.19209	0.42383	ENSG00000198890
0.19194	0.4239	ENSG00000137764
-0.19181	0.57605	ENSG00000065361
-0.19181	0.57606	ENSG00000072858
-0.1916	0.57597	ENSG00000099954
-0.19152	0.57594	ENSG00000148229
-0.19149	0.57593	ENSG00000137673
0.19147	0.42408	ENSG00000154845
-0.1913	0.57585	ENSG00000168903
0.19128	0.42415	ENSG00000149548
0.19107	0.42423	ENSG00000121931
-0.19106	0.57576	ENSG00000186007
-0.19074	0.57564	ENSG00000166275

0.19072	0.42437	ENSG00000127951
0.19065	0.4244	ENSG00000129355
0.19054	0.42444	ENSG00000198492
-0.19053	0.57555	ENSG00000196670
0.19044	0.42448	ENSG00000166961
-0.1904	0.5755	ENSG00000074706
-0.1904	0.5755	ENSG00000100225
-0.19026	0.57545	ENSG00000196152
0.19019	0.42458	ENSG00000071909
0.19018	0.42459	ENSG00000138606
0.19015	0.42459	ENSG00000168487
0.19012	0.42461	ENSG00000172086
0.1898	0.42473	ENSG00000088280
0.18975	0.42475	ENSG00000101350
-0.18968	0.57522	ENSG00000127952
0.18943	0.42488	ENSG00000206418
0.18941	0.42489	ENSG00000067369
-0.18938	0.5751	ENSG00000162599
0.18938	0.4249	ENSG00000114786
0.18938	0.4249	ENSG00000243989
-0.18934	0.57509	ENSG00000150636
-0.18908	0.57498	ENSG00000166454
0.18907	0.42502	ENSG00000112218
0.18907	0.42502	ENSG00000197601
0.18892	0.42508	ENSG00000269210
-0.18891	0.57492	ENSG00000168675
-0.18878	0.57487	ENSG00000182601
-0.18868	0.57483	ENSG00000179832
0.18863	0.42519	ENSG00000145826
0.18861	0.4252	ENSG00000157895
0.18861	0.4252	ENSG00000075702
-0.1886	0.5748	ENSG00000136936
0.18858	0.42521	ENSG00000166323
0.1881	0.4254	ENSG00000163798
0.18796	0.42546	ENSG00000169067
0.18787	0.42549	ENSG00000172653
-0.18773	0.57446	ENSG00000213973
-0.18771	0.57445	ENSG00000213064
0.18769	0.42556	ENSG00000205356
0.18759	0.4256	ENSG00000145819
0.18751	0.42563	ENSG00000168779
-0.18747	0.57436	ENSG00000086506
-0.18743	0.57434	ENSG00000134955
0.18721	0.42575	ENSG00000179023
0.18714	0.42577	ENSG00000109265
0.18713	0.42578	ENSG00000148602
-0.18705	0.57419	ENSG00000126524
0.18702	0.42582	ENSG00000111404
-0.18698	0.57416	ENSG00000111642
-0.18698	0.57416	ENSG00000132199
0.18668	0.42596	ENSG00000169397

0.18664	0.42597	ENSG00000182348
-0.18651	0.57398	ENSG00000165661
0.1865	0.42603	ENSG00000081760
0.18647	0.42604	ENSG00000169951
0.18644	0.42605	ENSG00000204540
0.18642	0.42606	ENSG00000106683
-0.18635	0.57391	ENSG00000187747
0.18622	0.42613	ENSG00000075651
-0.18621	0.57386	ENSG00000177556
0.18621	0.42614	ENSG00000126467
-0.18619	0.57385	ENSG00000131055
-0.18612	0.57382	ENSG00000108292
0.18612	0.42617	ENSG00000132640
0.1861	0.42618	ENSG00000197123
-0.18596	0.57376	ENSG00000135636
-0.18593	0.57375	ENSG00000173113
0.18592	0.42625	ENSG00000169299
0.18589	0.42627	ENSG00000150768
0.18578	0.42631	ENSG00000174473
-0.1856	0.57362	ENSG00000160446
-0.18559	0.57362	ENSG00000181092
0.18554	0.4264	ENSG00000196090
-0.18551	0.57358	ENSG00000152086
-0.18551	0.57358	ENSG00000167173
0.18544	0.42644	ENSG00000018869
0.18531	0.42649	ENSG00000249992
0.18526	0.42651	ENSG00000115129
-0.18525	0.57348	ENSG00000166503
0.1852	0.42654	ENSG00000184445
0.18512	0.42657	ENSG00000082212
-0.18509	0.57342	ENSG00000181045
0.18509	0.42658	ENSG00000268965
-0.18508	0.57342	ENSG00000089335
-0.18491	0.57335	ENSG00000108342
-0.18481	0.57331	ENSG00000080189
0.18478	0.4267	ENSG00000142910
0.18475	0.42671	ENSG00000214921
0.18466	0.42675	ENSG00000124216
-0.1846	0.57323	ENSG00000138136
-0.18457	0.57322	ENSG00000168634
0.18455	0.42679	ENSG00000145975
0.18447	0.42682	ENSG00000110448
0.18432	0.42688	ENSG00000143847
0.18431	0.42688	ENSG00000205363
0.1843	0.42689	ENSG00000128789
-0.18422	0.57308	ENSG00000167230
-0.18418	0.57306	ENSG00000161202
0.18411	0.42696	ENSG00000183654
0.18406	0.42698	ENSG00000110931
0.18398	0.42701	ENSG00000164597
0.18392	0.42704	ENSG00000103248

-0.18389	0.57295	ENSG00000133302
-0.18382	0.57292	ENSG00000164684
0.18369	0.42713	ENSG00000141434
0.18367	0.42714	ENSG00000170469
-0.18363	0.57285	ENSG00000174007
0.18344	0.42723	ENSG00000056736
0.18333	0.42727	ENSG00000162769
-0.18331	0.57272	ENSG00000189144
-0.18323	0.57269	ENSG00000167633
0.18301	0.42739	ENSG00000185716
-0.18294	0.57258	ENSG00000106701
-0.18287	0.57255	ENSG00000107290
-0.18286	0.57255	ENSG00000119608
-0.18282	0.57253	ENSG00000166741
-0.18273	0.5725	ENSG00000162643
0.18271	0.42751	ENSG00000132300
0.18271	0.42751	ENSG00000105205
0.1827	0.42752	ENSG00000171509
0.18262	0.42755	ENSG00000035403
0.18239	0.42764	ENSG00000112599
0.18226	0.42769	ENSG00000156875
0.18226	0.42769	ENSG00000139540
0.18214	0.42774	ENSG00000118729
0.18207	0.42776	ENSG00000166949
0.18205	0.42777	ENSG00000023191
0.18201	0.42779	ENSG00000104774
0.18199	0.4278	ENSG00000150459
-0.18197	0.5722	ENSG00000116918
-0.18195	0.57219	ENSG00000154263
0.18185	0.42785	ENSG00000120254
-0.18181	0.57213	ENSG00000226650
-0.18177	0.57212	ENSG00000187122
-0.18169	0.57209	ENSG00000109606
0.18163	0.42793	ENSG00000198937
-0.18162	0.57206	ENSG00000114742
0.1815	0.42799	ENSG00000213347
0.18147	0.428	ENSG00000082438
-0.18137	0.57196	ENSG00000158089
-0.18126	0.57192	ENSG00000065600
0.18117	0.42812	ENSG00000134480
0.18111	0.42814	ENSG00000109881
-0.18099	0.57181	ENSG00000068078
-0.18098	0.57181	ENSG00000144026
-0.18092	0.57178	ENSG00000134910
0.18089	0.42823	ENSG00000099889
0.18084	0.42825	ENSG00000188897
-0.18073	0.57171	ENSG00000214670
0.18073	0.42829	ENSG00000214891
-0.18072	0.57171	ENSG00000161647
0.18066	0.42832	ENSG00000166123
-0.18064	0.57168	ENSG00000105401

-0.18055	0.57164	ENSG00000155254
0.18048	0.42839	ENSG00000057663
-0.18045	0.5716	ENSG00000143401
-0.18041	0.57158	ENSG00000006016
-0.18032	0.57155	ENSG00000165934
0.18032	0.42845	ENSG00000164626
0.18027	0.42847	ENSG00000196455
0.18025	0.42848	ENSG00000172752
0.18024	0.42848	ENSG00000100526
-0.18022	0.57151	ENSG00000188725
-0.18022	0.57151	ENSG00000184293
-0.18019	0.5715	ENSG00000163530
-0.18019	0.5715	ENSG00000130368
0.18016	0.42851	ENSG00000145331
0.18014	0.42852	ENSG00000163046
-0.17983	0.57136	ENSG00000123095
0.17968	0.4287	ENSG00000182247
0.17962	0.42873	ENSG00000117215
0.17958	0.42874	ENSG00000183801
0.17949	0.42877	ENSG00000168143
0.17949	0.42878	ENSG00000133398
-0.17942	0.5712	ENSG00000198691
-0.17938	0.57118	ENSG00000153094
0.17933	0.42884	ENSG00000171860
-0.17929	0.57115	ENSG00000167103
-0.17926	0.57113	ENSG00000111679
0.17922	0.42888	ENSG00000158711
-0.17904	0.57105	ENSG00000204464
-0.17902	0.57104	ENSG00000204348
-0.17899	0.57103	ENSG00000178467
-0.17889	0.57099	ENSG00000100344
0.17887	0.42902	ENSG00000142623
0.17879	0.42905	ENSG00000169436
-0.17875	0.57093	ENSG00000088448
0.17874	0.42907	ENSG00000136279
-0.17872	0.57092	ENSG00000121579
-0.17865	0.57089	ENSG00000120875
0.1786	0.42912	ENSG00000113249
-0.17857	0.57086	ENSG00000182985
-0.17856	0.57086	ENSG00000170255
0.17853	0.42915	ENSG00000175048
0.17847	0.42918	ENSG00000228144
0.17847	0.42918	ENSG00000155957
0.17847	0.42918	ENSG00000139304
0.17842	0.4292	ENSG00000213719
0.17834	0.42923	ENSG00000178719
-0.17832	0.57076	ENSG00000267022
-0.17824	0.57073	ENSG00000173253
0.17818	0.42929	ENSG00000115760
-0.17814	0.57069	ENSG00000162390
-0.17803	0.57065	ENSG00000134453

0.17801	0.42936	ENSG00000139343
0.17797	0.42937	ENSG00000113494
0.17789	0.4294	ENSG00000253633
0.17789	0.42941	ENSG00000107281
0.17782	0.42943	ENSG00000036530
0.17777	0.42945	ENSG00000162873
-0.17765	0.5705	ENSG00000239886
0.17759	0.42952	ENSG00000060656
-0.17753	0.57045	ENSG00000169992
-0.17743	0.57042	ENSG00000125851
0.17734	0.42962	ENSG00000117069
0.17724	0.42966	ENSG00000162521
-0.17721	0.57033	ENSG00000125657
-0.17688	0.5702	ENSG00000198558
0.17688	0.4298	ENSG00000125505
0.17682	0.42982	ENSG00000152402
0.1768	0.42983	ENSG00000187942
0.1767	0.42987	ENSG00000153093
0.17669	0.42988	ENSG00000076604
0.17656	0.42993	ENSG00000138190
-0.17651	0.57005	ENSG00000050820
0.17649	0.42995	ENSG00000168610
0.17641	0.42998	ENSG00000163631
-0.1763	0.56997	ENSG00000166426
-0.17629	0.56997	ENSG00000119682
-0.17628	0.56996	ENSG00000162545
-0.17628	0.56996	ENSG00000137080
-0.17617	0.56992	ENSG00000116017
-0.17612	0.5699	ENSG00000163145
-0.17611	0.5699	ENSG00000124172
-0.17609	0.56989	ENSG00000106635
-0.17606	0.56988	ENSG00000139350
0.17597	0.43016	ENSG00000168356
-0.17592	0.56982	ENSG00000188763
-0.17589	0.56981	ENSG00000104723
-0.17575	0.56976	ENSG00000142599
-0.17569	0.56973	ENSG00000178409
0.17564	0.43029	ENSG00000167112
0.1755	0.43034	ENSG00000272781
-0.1754	0.56962	ENSG00000124733
0.1754	0.43038	ENSG00000258572
0.17522	0.43046	ENSG00000137166
-0.17506	0.56948	ENSG00000178363
-0.17505	0.56948	ENSG00000151746
0.17487	0.43059	ENSG00000137364
-0.17483	0.56939	ENSG00000243251
-0.17483	0.56939	ENSG00000258838
0.17483	0.43061	ENSG00000091844
0.17462	0.43069	ENSG00000261567
-0.17453	0.56928	ENSG00000130717
0.17438	0.43079	ENSG00000096093

-0.17405	0.56909	ENSG00000104973
-0.174	0.56907	ENSG00000185615
-0.17397	0.56905	ENSG00000104375
-0.17389	0.56903	ENSG00000119636
0.17382	0.431	ENSG00000064545
-0.1738	0.56899	ENSG00000138678
0.17379	0.43101	ENSG00000178235
0.17374	0.43104	ENSG00000188060
0.17361	0.43108	ENSG00000204308
0.1736	0.43109	ENSG00000112739
0.17353	0.43112	ENSG00000074370
0.1735	0.43113	ENSG00000169214
-0.17344	0.56885	ENSG00000151062
0.17333	0.4312	ENSG00000258512
-0.17324	0.56877	ENSG00000135569
-0.17319	0.56875	ENSG00000101193
-0.17313	0.56873	ENSG00000167088
-0.17286	0.56862	ENSG00000205089
-0.17286	0.56862	ENSG00000009954
0.17272	0.43144	ENSG00000225526
0.17253	0.43151	ENSG00000234465
0.17252	0.43151	ENSG00000106484
0.17241	0.43156	ENSG00000186075
-0.17236	0.56842	ENSG00000108278
-0.17217	0.56835	ENSG00000146066
-0.17196	0.56827	ENSG00000064012
-0.17178	0.56819	ENSG00000179715
-0.17165	0.56814	ENSG00000093167
-0.17161	0.56813	ENSG00000116350
0.17145	0.43194	ENSG00000162727
-0.17127	0.568	ENSG00000136045
-0.17118	0.56796	ENSG00000173064
0.17098	0.43212	ENSG00000064886
-0.17097	0.56787	ENSG00000110321
0.17094	0.43214	ENSG00000159882
0.1709	0.43215	ENSG00000155269
-0.17086	0.56783	ENSG00000167967
-0.17082	0.56782	ENSG00000131023
-0.1708	0.56781	ENSG00000129437
-0.17067	0.56776	ENSG00000186501
0.17042	0.43234	ENSG00000166455
-0.17026	0.5676	ENSG00000163029
-0.17021	0.56758	ENSG00000118596
0.17021	0.43242	ENSG00000104412
-0.17018	0.56756	ENSG00000196565
-0.17018	0.56757	ENSG00000113657
-0.17004	0.56751	ENSG00000260286
0.17002	0.4325	ENSG00000150773
0.16999	0.43251	ENSG00000143947
-0.16994	0.56747	ENSG00000179104
-0.16994	0.56747	ENSG00000073584

0.16992	0.43254	ENSG00000167741
0.1699	0.43254	ENSG00000157510
-0.16988	0.56745	ENSG00000072952
0.16988	0.43255	ENSG00000137960
0.16983	0.43257	ENSG00000196344
0.16979	0.43259	ENSG00000094661
-0.16975	0.5674	ENSG00000005020
-0.16973	0.56739	ENSG00000197043
0.1697	0.43262	ENSG00000154080
0.16966	0.43264	ENSG00000139835
-0.16959	0.56733	ENSG00000121766
0.16948	0.43271	ENSG00000204580
0.16933	0.43277	ENSG00000119139
0.16933	0.43277	ENSG00000196562
0.16926	0.4328	ENSG00000173218
-0.16916	0.56716	ENSG00000178338
0.16906	0.43287	ENSG00000269279
0.169	0.4329	ENSG00000203737
-0.16895	0.56708	ENSG00000167945
0.16895	0.43292	ENSG00000157654
0.16895	0.43292	ENSG00000241978
0.16894	0.43292	ENSG00000158716
0.16882	0.43297	ENSG00000133265
0.16881	0.43297	ENSG00000242498
-0.16879	0.56702	ENSG00000080845
0.16875	0.433	ENSG00000253831
-0.16874	0.567	ENSG00000118515
-0.16872	0.56699	ENSG00000065150
-0.16872	0.56699	ENSG00000214087
0.16871	0.43301	ENSG00000086991
0.16861	0.43305	ENSG00000165995
-0.16852	0.56691	ENSG00000082515
-0.16845	0.56689	ENSG00000007392
0.16816	0.43323	ENSG00000204257
0.16804	0.43327	ENSG00000162458
-0.16799	0.5667	ENSG00000214732
-0.16796	0.56669	ENSG00000138813
0.16789	0.43334	ENSG00000176371
0.16785	0.43335	ENSG00000229183
0.16785	0.43335	ENSG00000256713
0.16778	0.43338	ENSG00000270898
-0.16756	0.56653	ENSG00000100330
0.16742	0.43352	ENSG00000154174
-0.1674	0.56647	ENSG00000145888
0.16726	0.43358	ENSG00000087338
-0.16725	0.56641	ENSG00000184203
0.16724	0.43359	ENSG00000170088
0.16704	0.43367	ENSG00000173077
-0.16702	0.56632	ENSG00000204577
-0.16702	0.56632	ENSG00000244482
-0.16687	0.56626	ENSG00000119917

-0.16682	0.56624	ENSG00000175518
-0.16681	0.56624	ENSG00000170889
0.1668	0.43377	ENSG00000219626
-0.16668	0.56619	ENSG00000198657
-0.16658	0.56615	ENSG00000113966
0.16651	0.43388	ENSG00000079215
0.16651	0.43388	ENSG00000171643
0.16649	0.43389	ENSG00000143382
0.16645	0.4339	ENSG00000172155
-0.16638	0.56607	ENSG00000147471
-0.16611	0.56596	ENSG00000171724
0.16611	0.43403	ENSG00000239388
0.16609	0.43404	ENSG00000171169
0.16608	0.43405	ENSG00000198026
0.16601	0.43408	ENSG00000165660
-0.16587	0.56587	ENSG00000124232
0.16587	0.43413	ENSG00000074054
0.1658	0.43416	ENSG00000113721
-0.16577	0.56583	ENSG00000155744
0.16577	0.43417	ENSG00000141096
-0.16576	0.56583	ENSG00000156931
-0.16569	0.5658	ENSG00000133937
-0.16567	0.56579	ENSG00000073536
0.16563	0.43422	ENSG00000198125
-0.16545	0.56571	ENSG00000157978
-0.16544	0.5657	ENSG00000268461
0.16533	0.43434	ENSG00000051341
-0.16519	0.5656	ENSG00000130779
0.16518	0.4344	ENSG00000146729
-0.16517	0.5656	ENSG00000175329
0.16515	0.43441	ENSG00000120742
0.16512	0.43442	ENSG00000139988
0.16498	0.43448	ENSG00000198914
0.16487	0.43452	ENSG00000176410
0.16487	0.43452	ENSG00000197818
-0.1648	0.56545	ENSG00000177150
0.16478	0.43456	ENSG00000113722
0.16457	0.43464	ENSG00000180999
0.16452	0.43466	ENSG00000168995
0.16452	0.43466	ENSG00000125772
-0.16443	0.56531	ENSG00000142227
0.16441	0.4347	ENSG00000135506
0.1644	0.43471	ENSG00000185909
0.16436	0.43472	ENSG00000120332
0.1643	0.43475	ENSG00000185306
0.16424	0.43477	ENSG00000204713
-0.16422	0.56522	ENSG00000171490
-0.16399	0.56513	ENSG00000163283
0.16398	0.43487	ENSG00000161920
0.16397	0.43488	ENSG00000139044
0.16392	0.4349	ENSG00000136504

0.16379	0.43495	ENSG00000268218
0.16377	0.43496	ENSG00000174738
0.16373	0.43497	ENSG00000134940
-0.16363	0.56499	ENSG00000198286
-0.16339	0.56489	ENSG00000145020
0.16337	0.43511	ENSG00000127191
-0.16335	0.56488	ENSG00000254318
-0.1633	0.56486	ENSG00000101166
0.16329	0.43515	ENSG00000115325
-0.16326	0.56484	ENSG00000267270
0.16324	0.43516	ENSG00000101331
-0.1632	0.56482	ENSG00000100211
-0.16316	0.5648	ENSG00000168263
0.16308	0.43523	ENSG00000013583
-0.16299	0.56474	ENSG00000205334
-0.16292	0.56471	ENSG00000138346
-0.16287	0.56469	ENSG00000183018
0.16285	0.43532	ENSG00000160746
0.16263	0.4354	ENSG00000083937
0.1626	0.43542	ENSG00000085872
0.16237	0.43551	ENSG00000135333
0.16231	0.43553	ENSG00000171150
-0.16226	0.56445	ENSG00000176018
0.16224	0.43556	ENSG00000165055
-0.16212	0.56439	ENSG00000139714
-0.16211	0.56439	ENSG00000197958
0.16211	0.43561	ENSG00000160062
-0.16206	0.56437	ENSG00000152953
-0.162	0.56435	ENSG00000072080
0.16192	0.43568	ENSG00000123364
0.16191	0.43569	ENSG00000140650
-0.16177	0.56426	ENSG00000143412
0.16174	0.43575	ENSG00000151422
0.16156	0.43583	ENSG00000132475
-0.16153	0.56416	ENSG00000136404
0.16137	0.4359	ENSG00000182170
-0.16118	0.56402	ENSG00000105887
-0.16113	0.564	ENSG00000184682
0.16107	0.43602	ENSG00000115266
0.16097	0.43606	ENSG00000264668
-0.16095	0.56393	ENSG00000100926
-0.16095	0.56393	ENSG00000254692
-0.16094	0.56393	ENSG00000149273
0.16088	0.43609	ENSG00000164292
-0.16084	0.56389	ENSG00000165449
0.16084	0.43611	ENSG00000161298
-0.16079	0.56387	ENSG00000115507
0.16064	0.43619	ENSG00000198538
-0.16063	0.56381	ENSG00000221887
0.16047	0.43626	ENSG00000165131
0.16039	0.43629	ENSG00000138777

0.16038	0.43629	ENSG00000196502
-0.16036	0.5637	ENSG00000108439
0.16032	0.43631	ENSG00000182771
-0.16028	0.56367	ENSG00000163563
-0.16028	0.56367	ENSG00000168264
0.16027	0.43633	ENSG00000124356
0.16015	0.43638	ENSG00000105655
0.16004	0.43642	ENSG00000112701
-0.16003	0.56357	ENSG00000137145
-0.16002	0.56357	ENSG00000166823
0.15986	0.4365	ENSG00000178385
-0.15976	0.56346	ENSG00000181072
0.15976	0.43653	ENSG00000187838
0.15976	0.43653	ENSG00000262481
0.15967	0.43657	ENSG00000155506
0.15967	0.43657	ENSG00000103512
-0.15962	0.56341	ENSG00000108344
0.15956	0.43661	ENSG00000109705
0.15953	0.43663	ENSG00000134056
0.15953	0.43663	ENSG00000103316
0.15943	0.43666	ENSG00000133119
0.15901	0.43683	ENSG00000183580
0.15898	0.43684	ENSG00000145029
-0.15895	0.56315	ENSG00000120949
0.15891	0.43687	ENSG00000086232
-0.15884	0.5631	ENSG00000239732
-0.15855	0.56299	ENSG00000116353
0.15853	0.43702	ENSG00000123992
-0.15849	0.56296	ENSG00000166986
-0.15841	0.56293	ENSG00000269891
0.15833	0.4371	ENSG00000184724
0.1583	0.43711	ENSG00000101210
-0.15824	0.56287	ENSG00000166847
-0.15819	0.56285	ENSG00000181450
0.15811	0.43719	ENSG00000011105
-0.1581	0.56281	ENSG00000167136
-0.15801	0.56277	ENSG00000130414
-0.15798	0.56276	ENSG00000123064
0.15798	0.43724	ENSG00000169403
0.15792	0.43726	ENSG00000139971
0.15789	0.43727	ENSG00000115239
0.15789	0.43727	ENSG00000070476
0.15785	0.43729	ENSG00000104237
0.15783	0.4373	ENSG00000148377
-0.15782	0.5627	ENSG00000174325
-0.1577	0.56265	ENSG00000197798
0.1577	0.43735	ENSG00000231824
-0.15766	0.56264	ENSG00000057757
0.15766	0.43736	ENSG00000052841
0.15741	0.43746	ENSG00000205809
-0.15734	0.56251	ENSG00000027697

0.15731	0.4375	ENSG00000129654
0.15726	0.43752	ENSG00000257065
-0.15724	0.56247	ENSG00000204963
0.15717	0.43755	ENSG00000196812
-0.15708	0.56241	ENSG00000146733
0.15703	0.43761	ENSG00000182223
0.1569	0.43766	ENSG00000188269
-0.15687	0.56233	ENSG00000196900
0.15675	0.43772	ENSG00000213714
0.15673	0.43773	ENSG00000130377
-0.15665	0.56224	ENSG00000152219
0.15659	0.43778	ENSG00000255633
0.1565	0.43782	ENSG00000144589
0.1565	0.43782	ENSG00000267426
0.15648	0.43783	ENSG00000187479
0.15648	0.43783	ENSG00000152556
-0.1562	0.56206	ENSG00000100138
-0.15588	0.56194	ENSG00000165171
0.15567	0.43815	ENSG00000132950
0.15548	0.43822	ENSG00000133055
-0.15542	0.56176	ENSG00000164855
0.1554	0.43825	ENSG00000197479
0.1554	0.43825	ENSG00000106692
-0.15538	0.56174	ENSG00000205863
-0.15529	0.56171	ENSG00000165672
0.15528	0.4383	ENSG00000268550
-0.15525	0.56169	ENSG00000002016
-0.15515	0.56165	ENSG00000146151
-0.15511	0.56163	ENSG00000137462
-0.1551	0.56163	ENSG00000060982
-0.15509	0.56162	ENSG00000187800
-0.155	0.56159	ENSG00000005175
0.15484	0.43847	ENSG00000131096
0.15483	0.43848	ENSG00000198182
-0.15481	0.56151	ENSG00000127533
0.1548	0.43849	ENSG00000152520
0.15478	0.4385	ENSG00000226894
0.15471	0.43852	ENSG00000075785
-0.15449	0.56139	ENSG00000138463
0.15449	0.43861	ENSG00000240303
0.15449	0.43861	ENSG00000038219
-0.15446	0.56138	ENSG00000138759
-0.15445	0.56137	ENSG00000082074
-0.15442	0.56136	ENSG00000047621
0.15442	0.43864	ENSG00000186090
-0.15441	0.56136	ENSG00000156475
-0.15424	0.56129	ENSG00000185267
0.15409	0.43877	ENSG00000162924
-0.15402	0.5612	ENSG00000108175
-0.15378	0.56111	ENSG00000172575
-0.15377	0.5611	ENSG00000169359

-0.15368	0.56107	ENSG00000166840
-0.15351	0.561	ENSG00000205846
0.15329	0.43909	ENSG00000112592
0.15325	0.4391	ENSG00000204909
0.15325	0.4391	ENSG00000269446
-0.15323	0.56089	ENSG00000162882
-0.15316	0.56086	ENSG00000157014
0.15313	0.43915	ENSG00000186907
-0.15312	0.56085	ENSG00000110801
0.15312	0.43915	ENSG00000249967
0.15306	0.43918	ENSG00000166881
0.15306	0.43918	ENSG00000258989
-0.15286	0.56074	ENSG00000123104
-0.15284	0.56074	ENSG00000136011
0.15276	0.4393	ENSG00000146094
-0.1527	0.56068	ENSG00000170113
-0.1526	0.56064	ENSG00000140718
0.15259	0.43936	ENSG00000167363
-0.15241	0.56057	ENSG00000171246
0.1524	0.43944	ENSG00000092051
-0.1523	0.56053	ENSG00000213002
-0.15226	0.56051	ENSG00000144827
0.15226	0.43949	ENSG00000204022
0.15224	0.4395	ENSG00000133935
0.15219	0.43952	ENSG00000163050
0.15205	0.43957	ENSG00000171798
0.15204	0.43958	ENSG00000173467
-0.15194	0.56038	ENSG00000071655
0.15189	0.43964	ENSG00000100557
0.15183	0.43966	ENSG00000176358
-0.15175	0.56031	ENSG00000143314
-0.15171	0.56029	ENSG00000213654
-0.15171	0.56029	ENSG00000175787
0.15171	0.43971	ENSG00000127483
0.15165	0.43973	ENSG00000137331
0.15165	0.43973	ENSG00000139146
0.15156	0.43977	ENSG00000174939
0.15144	0.43981	ENSG00000215045
-0.15136	0.56015	ENSG00000139269
-0.15134	0.56015	ENSG00000149554
-0.15133	0.56014	ENSG00000197299
0.15129	0.43987	ENSG00000196689
0.15125	0.43989	ENSG00000184698
-0.15113	0.56006	ENSG00000008988
-0.15111	0.56006	ENSG00000198863
-0.15098	0.56001	ENSG00000106638
0.15091	0.44002	ENSG00000071462
0.15077	0.44008	ENSG00000146054
0.15077	0.44008	ENSG00000168806
0.15048	0.44019	ENSG00000138101
-0.15046	0.5598	ENSG00000151503

0.15044	0.44021	ENSG00000177791
-0.15038	0.55977	ENSG00000176136
-0.15035	0.55976	ENSG00000204618
0.15029	0.44027	ENSG00000064270
0.15028	0.44027	ENSG00000127399
-0.15021	0.5597	ENSG00000079805
0.15009	0.44035	ENSG00000228300
-0.15005	0.55964	ENSG00000240065
0.14993	0.44041	ENSG00000142632
0.14991	0.44042	ENSG00000196498
0.14989	0.44043	ENSG00000181135
0.14958	0.44055	ENSG00000147416
0.14946	0.44059	ENSG00000148110
0.1494	0.44062	ENSG00000139329
0.14935	0.44064	ENSG00000162885
0.14931	0.44065	ENSG00000174886
-0.1493	0.55934	ENSG00000235268
-0.14921	0.55931	ENSG00000130303
0.14918	0.4407	ENSG00000019995
-0.14914	0.55928	ENSG00000169223
0.14911	0.44073	ENSG00000136697
0.14904	0.44076	ENSG00000106034
0.14886	0.44083	ENSG00000139620
0.14869	0.4409	ENSG00000266714
0.14864	0.44092	ENSG00000120051
-0.14848	0.55902	ENSG00000112280
-0.14844	0.559	ENSG00000003393
-0.14842	0.55899	ENSG00000138246
-0.14841	0.55899	ENSG00000119673
-0.14836	0.55897	ENSG00000204962
-0.14793	0.5588	ENSG00000140993
-0.14791	0.55879	ENSG00000170871
0.14787	0.44122	ENSG00000185015
0.14774	0.44127	ENSG00000142892
-0.1477	0.55871	ENSG00000153347
0.14767	0.4413	ENSG00000183086
0.14766	0.44131	ENSG00000268000
-0.14758	0.55866	ENSG00000100916
0.1475	0.44137	ENSG00000096395
0.14726	0.44146	ENSG00000184924
-0.14724	0.55853	ENSG00000197977
-0.14721	0.55852	ENSG00000196350
0.14721	0.44148	ENSG00000243335
-0.14702	0.55844	ENSG00000183090
0.1469	0.4416	ENSG00000128512
0.14682	0.44164	ENSG00000196932
-0.14681	0.55836	ENSG00000132549
-0.14678	0.55835	ENSG00000255561
-0.14666	0.5583	ENSG00000173302
0.14664	0.44171	ENSG00000166262
0.14662	0.44172	ENSG00000116473

-0.1466	0.55827	ENSG00000136378
-0.14646	0.55822	ENSG00000164708
0.1464	0.4418	ENSG00000162704
0.1464	0.4418	ENSG00000260970
-0.14633	0.55817	ENSG00000117650
0.14631	0.44184	ENSG00000224531
-0.14623	0.55813	ENSG00000106615
0.14608	0.44193	ENSG00000198624
-0.14606	0.55806	ENSG00000082805
-0.14601	0.55804	ENSG00000180773
0.14591	0.44199	ENSG00000138231
0.14578	0.44205	ENSG00000150471
0.14576	0.44206	ENSG00000163312
0.14576	0.44206	ENSG00000160870
-0.14575	0.55794	ENSG00000196260
-0.14573	0.55793	ENSG00000149328
-0.14572	0.55793	ENSG00000140022
-0.14565	0.5579	ENSG00000183067
0.14559	0.44212	ENSG00000145681
0.14546	0.44217	ENSG00000061794
0.14544	0.44218	ENSG00000125998
-0.14539	0.5578	ENSG00000148795
-0.14532	0.55777	ENSG00000183856
-0.14521	0.55773	ENSG00000166479
-0.14519	0.55772	ENSG00000175854
-0.14516	0.55771	ENSG00000155096
0.14513	0.44231	ENSG00000138161
-0.14506	0.55767	ENSG00000119689
-0.14502	0.55765	ENSG00000106682
0.14495	0.44238	ENSG00000179826
0.14493	0.44238	ENSG00000180346
0.1449	0.44239	ENSG00000109445
-0.14472	0.55753	ENSG00000181481
0.14467	0.44249	ENSG00000099974
0.14449	0.44256	ENSG00000182379
0.14448	0.44256	ENSG00000186583
0.14445	0.44257	ENSG00000147697
0.1444	0.44259	ENSG00000100908
-0.14436	0.55739	ENSG00000132692
0.14424	0.44265	ENSG00000126838
-0.14419	0.55733	ENSG00000169964
0.14417	0.44268	ENSG00000143079
0.14414	0.4427	ENSG00000141252
-0.14413	0.5573	ENSG00000268111
0.14409	0.44272	ENSG00000155749
0.14399	0.44275	ENSG00000186891
0.14391	0.44279	ENSG00000128833
-0.1438	0.55717	ENSG00000030304
-0.14369	0.55713	ENSG00000162927
-0.14368	0.55712	ENSG00000103241
-0.14366	0.55712	ENSG00000171109

0.14363	0.4429	ENSG00000112378
0.14361	0.4429	ENSG00000203985
-0.14355	0.55707	ENSG00000152076
0.14353	0.44293	ENSG00000197880
0.14353	0.44294	ENSG00000196711
0.14331	0.44302	ENSG00000142188
-0.14328	0.55696	ENSG00000064607
0.14321	0.44306	ENSG00000119522
-0.14318	0.55693	ENSG00000166578
0.14314	0.44309	ENSG00000107104
0.14312	0.4431	ENSG00000173200
-0.14307	0.55688	ENSG00000184007
-0.14305	0.55688	ENSG00000179750
-0.14302	0.55686	ENSG00000114331
0.1429	0.44319	ENSG00000120686
0.14288	0.44319	ENSG00000149357
-0.14285	0.5568	ENSG00000138674
-0.14282	0.55678	ENSG00000100577
-0.14278	0.55677	ENSG00000197024
-0.14277	0.55676	ENSG00000170832
0.14275	0.44324	ENSG00000166938
0.14262	0.44329	ENSG00000102962
-0.14259	0.55669	ENSG00000105997
0.14252	0.44334	ENSG00000131061
-0.1422	0.55654	ENSG00000197177
-0.14217	0.55653	ENSG00000169327
0.14213	0.44349	ENSG00000196586
0.14209	0.44351	ENSG00000137760
0.14202	0.44353	ENSG00000175832
0.142	0.44354	ENSG00000105641
-0.14198	0.55645	ENSG00000111640
-0.14189	0.55642	ENSG00000258928
0.14185	0.4436	ENSG00000175793
0.14168	0.44367	ENSG00000126458
-0.14159	0.5563	ENSG00000091651
-0.14146	0.55625	ENSG00000126001
-0.14145	0.55624	ENSG00000144320
0.14144	0.44376	ENSG00000088386
0.14143	0.44377	ENSG00000136026
0.14136	0.44379	ENSG00000143375
-0.14131	0.55619	ENSG00000100226
0.14119	0.44386	ENSG00000198892
-0.14117	0.55613	ENSG00000095574
-0.14111	0.55611	ENSG00000187994
-0.14101	0.55607	ENSG00000170967
-0.14097	0.55605	ENSG00000183831
-0.14088	0.55602	ENSG00000153395
0.14087	0.44398	ENSG00000175782
0.14082	0.444	ENSG00000135686
0.14071	0.44405	ENSG00000011083
-0.14066	0.55593	ENSG00000146909

0.14056	0.44411	ENSG00000130957
0.14041	0.44417	ENSG00000188313
0.14033	0.4442	ENSG00000172530
0.14029	0.44421	ENSG00000102445
-0.14024	0.55576	ENSG00000174279
-0.14024	0.55576	ENSG00000130921
0.14017	0.44426	ENSG00000255346
0.14016	0.44426	ENSG00000138111
-0.14015	0.55573	ENSG00000068784
-0.14002	0.55568	ENSG00000181896
0.1399	0.44437	ENSG00000016864
0.13972	0.44444	ENSG00000114544
0.13967	0.44446	ENSG00000180083
-0.13947	0.55546	ENSG00000266258
0.13942	0.44456	ENSG00000146426
0.13931	0.4446	ENSG00000139629
-0.13928	0.55538	ENSG00000170456
-0.13925	0.55537	ENSG00000159433
-0.13916	0.55534	ENSG00000214239
0.13908	0.44469	ENSG00000268358
-0.13903	0.55529	ENSG00000107554
0.13899	0.44473	ENSG00000272658
0.1388	0.4448	ENSG00000267748
-0.13869	0.55515	ENSG00000168303
-0.13866	0.55514	ENSG00000124171
0.13863	0.44487	ENSG00000170325
-0.13862	0.55513	ENSG00000104946
-0.13852	0.55508	ENSG00000130305
-0.13838	0.55503	ENSG00000100565
-0.13827	0.55499	ENSG00000120885
0.13814	0.44506	ENSG00000267281
-0.13812	0.55493	ENSG00000214929
-0.13798	0.55487	ENSG00000138867
-0.13783	0.55481	ENSG00000167981
-0.13782	0.55481	ENSG00000152443
0.13774	0.44522	ENSG00000056972
-0.13772	0.55477	ENSG00000124786
-0.13765	0.55474	ENSG00000122778
-0.13755	0.5547	ENSG00000258729
-0.13751	0.55469	ENSG00000107201
-0.13746	0.55467	ENSG00000172493
0.13745	0.44534	ENSG00000148082
-0.13742	0.55465	ENSG00000172059
-0.13742	0.55465	ENSG00000066583
-0.13734	0.55462	ENSG00000162078
0.13726	0.44541	ENSG00000023516
0.13718	0.44544	ENSG00000108528
-0.13714	0.55454	ENSG00000164821
-0.13708	0.55452	ENSG00000267618
-0.13691	0.55445	ENSG00000171723
0.1369	0.44555	ENSG00000154059

0.13681	0.44559	ENSG00000145491
0.13674	0.44562	ENSG00000101347
-0.13673	0.55438	ENSG00000166821
0.1367	0.44563	ENSG00000128040
0.13668	0.44564	ENSG00000118997
0.13666	0.44565	ENSG00000165917
0.13657	0.44569	ENSG00000197766
-0.13647	0.55427	ENSG00000062370
-0.13646	0.55427	ENSG00000069966
-0.13634	0.55422	ENSG00000095485
0.13634	0.44578	ENSG00000119929
0.13634	0.44578	ENSG00000186191
0.13629	0.4458	ENSG00000183476
-0.13628	0.5542	ENSG00000137077
-0.13621	0.55417	ENSG00000057252
-0.13621	0.55417	ENSG00000183155
0.13613	0.44586	ENSG00000117594
0.13613	0.44586	ENSG00000130164
0.13605	0.44589	ENSG00000106609
0.13603	0.4459	ENSG00000171223
-0.13602	0.5541	ENSG00000118849
0.13593	0.44594	ENSG00000186283
0.13581	0.44599	ENSG00000235194
-0.13579	0.554	ENSG00000250641
0.13575	0.44601	ENSG00000166448
-0.13567	0.55396	ENSG00000137942
-0.13565	0.55395	ENSG00000124193
0.13558	0.44608	ENSG00000118193
0.13556	0.44608	ENSG00000176087
-0.13542	0.55386	ENSG00000269808
-0.13541	0.55385	ENSG00000075188
-0.13526	0.5538	ENSG00000124557
0.13522	0.44622	ENSG00000006377
0.13521	0.44622	ENSG00000188554
-0.13501	0.5537	ENSG00000167749
-0.135	0.5537	ENSG00000158195
0.13497	0.44632	ENSG00000109654
-0.13483	0.55363	ENSG00000167889
-0.13481	0.55362	ENSG00000141738
0.13478	0.44639	ENSG00000138593
0.13472	0.44642	ENSG00000162402
0.13469	0.44643	ENSG00000183354
0.13465	0.44644	ENSG00000127241
-0.13459	0.55353	ENSG00000165355
-0.13446	0.55348	ENSG00000134825
-0.13443	0.55347	ENSG00000176390
-0.13431	0.55342	ENSG00000023318
0.13426	0.4466	ENSG00000234560
-0.13412	0.55335	ENSG00000088538
-0.1341	0.55334	ENSG00000185504
0.13379	0.44678	ENSG00000170653

0.13361	0.44686	ENSG00000146731
0.13351	0.44689	ENSG00000197245
0.13346	0.44692	ENSG00000122592
-0.13341	0.55307	ENSG00000185610
0.13325	0.447	ENSG00000052723
-0.13322	0.55299	ENSG00000089597
0.13314	0.44704	ENSG00000131914
0.13314	0.44704	ENSG00000141562
0.13313	0.44704	ENSG00000152061
-0.13303	0.55292	ENSG00000164251
0.13299	0.4471	ENSG00000221937
-0.13292	0.55287	ENSG00000036565
0.13289	0.44714	ENSG00000107771
0.13279	0.44718	ENSG00000135249
0.13276	0.44719	ENSG00000237289
-0.13273	0.5528	ENSG00000118690
-0.13252	0.55271	ENSG00000270394
0.13251	0.44729	ENSG00000040531
-0.13246	0.55269	ENSG00000232125
-0.13239	0.55266	ENSG00000163536
0.13239	0.44734	ENSG00000205649
0.13237	0.44735	ENSG00000254834
0.13236	0.44735	ENSG00000186918
0.13233	0.44736	ENSG00000082258
0.13227	0.44738	ENSG00000181215
-0.13224	0.5526	ENSG00000004809
0.13223	0.4474	ENSG00000215066
0.13222	0.44741	ENSG00000146457
0.13219	0.44742	ENSG00000146872
-0.1321	0.55255	ENSG00000149231
-0.13204	0.55252	ENSG00000119650
0.13201	0.44749	ENSG00000168300
0.13198	0.4475	ENSG00000156795
0.13196	0.44751	ENSG00000183303
-0.13193	0.55248	ENSG00000159199
0.13192	0.44752	ENSG00000017260
0.13188	0.44754	ENSG00000267552
0.13184	0.44755	ENSG00000132535
0.13173	0.4476	ENSG00000104921
0.13151	0.44769	ENSG00000075914
0.1315	0.44769	ENSG00000136738
0.13146	0.44771	ENSG00000060491
0.1314	0.44773	ENSG00000183784
-0.13128	0.55222	ENSG00000149485
0.13126	0.44779	ENSG00000133460
-0.1312	0.55219	ENSG00000163389
0.13104	0.44787	ENSG00000172901
-0.13091	0.55208	ENSG00000138375
-0.13087	0.55206	ENSG00000182459
0.13077	0.44798	ENSG00000110917
0.13058	0.44805	ENSG00000120438

-0.13052	0.55192	ENSG00000248050
-0.1304	0.55187	ENSG00000164045
-0.1304	0.55187	ENSG00000179292
0.13038	0.44813	ENSG00000100336
-0.13035	0.55186	ENSG00000095464
0.13035	0.44814	ENSG00000166189
0.13026	0.44818	ENSG00000214711
0.13019	0.44821	ENSG00000056487
-0.13013	0.55177	ENSG00000138663
0.13013	0.44823	ENSG00000163001
-0.12978	0.55163	ENSG00000250120
0.12977	0.44837	ENSG00000151693
-0.12975	0.55162	ENSG00000109193
0.12974	0.44838	ENSG00000156886
0.12973	0.44839	ENSG00000124159
0.12971	0.4484	ENSG00000152133
0.12971	0.4484	ENSG00000177374
-0.1297	0.5516	ENSG00000135413
-0.12969	0.55159	ENSG00000167236
0.12967	0.44841	ENSG00000141665
-0.12954	0.55154	ENSG00000163902
-0.1295	0.55152	ENSG00000173262
0.12945	0.4485	ENSG00000100284
0.12935	0.44854	ENSG00000119231
-0.12933	0.55145	ENSG00000266967
-0.12932	0.55145	ENSG00000129354
-0.12922	0.55141	ENSG00000089195
0.12907	0.44865	ENSG00000011566
0.12897	0.44869	ENSG00000037749
0.12892	0.44871	ENSG00000173193
-0.12881	0.55125	ENSG00000260415
0.12876	0.44877	ENSG00000176788
-0.12869	0.5512	ENSG00000176927
0.12867	0.44881	ENSG00000154415
0.12866	0.44881	ENSG00000145103
-0.12855	0.55114	ENSG00000178243
-0.12855	0.55114	ENSG00000124157
0.12846	0.44889	ENSG00000011143
-0.12837	0.55107	ENSG00000093072
-0.12832	0.55105	ENSG00000139318
0.12831	0.44895	ENSG00000104381
0.1282	0.44899	ENSG00000257949
-0.12798	0.55092	ENSG00000198939
-0.12784	0.55086	ENSG00000108443
-0.12777	0.55083	ENSG00000133997
-0.12773	0.55082	ENSG00000051523
-0.12763	0.55078	ENSG00000196363
-0.12756	0.55075	ENSG00000180638
-0.12753	0.55074	ENSG00000083782
0.12747	0.44928	ENSG00000184350
0.12737	0.44932	ENSG00000155508

0.12737	0.44932	ENSG00000133318
-0.12735	0.55067	ENSG00000009790
0.12733	0.44934	ENSG00000084693
0.12713	0.44942	ENSG00000155714
0.12704	0.44945	ENSG00000141026
0.12702	0.44946	ENSG00000168282
-0.127	0.55053	ENSG00000155897
-0.12672	0.55042	ENSG00000168792
-0.12671	0.55041	ENSG00000267913
0.1267	0.44959	ENSG00000145723
0.12662	0.44962	ENSG00000205549
-0.12598	0.55012	ENSG00000112992
0.12589	0.44991	ENSG00000147509
0.1258	0.44995	ENSG00000221923
0.12554	0.45005	ENSG00000185332
0.12552	0.45006	ENSG00000005187
-0.12544	0.54991	ENSG00000151468
0.12538	0.45011	ENSG00000084110
0.1253	0.45014	ENSG00000087116
0.12522	0.45017	ENSG00000156162
0.12516	0.4502	ENSG00000125816
-0.12515	0.5498	ENSG00000121297
0.12512	0.45021	ENSG00000143001
0.12503	0.45025	ENSG00000196730
-0.12499	0.54974	ENSG00000165125
-0.12497	0.54973	ENSG00000166407
-0.12496	0.54972	ENSG00000255767
-0.12488	0.54969	ENSG00000184840
0.1247	0.45038	ENSG00000177030
0.12468	0.45039	ENSG00000164404
-0.12465	0.5496	ENSG00000170605
0.1246	0.45042	ENSG00000121653
-0.12458	0.54957	ENSG00000009413
-0.12457	0.54957	ENSG00000117983
0.12451	0.45046	ENSG00000135439
-0.12448	0.54953	ENSG00000150750
0.12436	0.45051	ENSG00000118200
-0.12433	0.54947	ENSG00000037474
0.1243	0.45054	ENSG00000206013
0.12428	0.45055	ENSG00000221947
-0.12421	0.54942	ENSG00000175894
-0.1242	0.54942	ENSG00000172365
-0.12397	0.54933	ENSG00000139289
-0.12379	0.54926	ENSG00000184489
-0.12372	0.54923	ENSG00000044090
-0.12369	0.54922	ENSG00000113643
0.12369	0.45078	ENSG00000115425
0.12363	0.4508	ENSG00000143622
0.1235	0.45086	ENSG00000127423
0.12341	0.45089	ENSG00000107566
0.12336	0.45091	ENSG00000169509

-0.12331	0.54907	ENSG00000064932
-0.1232	0.54903	ENSG00000146039
0.12311	0.45101	ENSG00000145192
0.1231	0.45102	ENSG00000133101
-0.12306	0.54897	ENSG00000111700
0.12305	0.45104	ENSG00000148204
0.12304	0.45104	ENSG00000176383
-0.12297	0.54894	ENSG00000241685
-0.12295	0.54893	ENSG00000109689
0.12294	0.45108	ENSG00000162461
0.1229	0.45109	ENSG00000184148
0.12288	0.4511	ENSG00000262180
-0.12286	0.54889	ENSG00000139637
-0.12246	0.54873	ENSG00000165623
0.12233	0.45132	ENSG00000197860
-0.12232	0.54868	ENSG00000155542
0.12231	0.45133	ENSG00000107816
-0.12227	0.54866	ENSG00000112118
-0.12209	0.54858	ENSG00000102886
-0.12207	0.54858	ENSG00000204564
0.122	0.45145	ENSG00000168026
-0.12198	0.54854	ENSG00000206053
0.12196	0.45146	ENSG00000196372
0.12193	0.45148	ENSG00000154640
-0.12151	0.54836	ENSG00000171827
-0.1215	0.54835	ENSG00000140553
-0.12146	0.54834	ENSG00000126461
0.12137	0.4517	ENSG00000144741
0.12137	0.4517	ENSG00000269267
0.12131	0.45172	ENSG00000179526
0.12127	0.45174	ENSG00000144792
0.12114	0.45179	ENSG00000144354
0.12106	0.45182	ENSG00000130147
-0.12103	0.54817	ENSG00000020426
-0.12095	0.54813	ENSG00000151287
0.12094	0.45187	ENSG00000135905
-0.12093	0.54813	ENSG00000120659
-0.12083	0.54809	ENSG00000176887
-0.12079	0.54807	ENSG00000089022
0.12079	0.45193	ENSG00000170365
-0.12071	0.54804	ENSG00000161513
-0.12063	0.54801	ENSG00000197782
0.12059	0.45201	ENSG00000168148
-0.12036	0.5479	ENSG00000115677
-0.12032	0.54789	ENSG00000091262
-0.12015	0.54782	ENSG00000104872
-0.1201	0.5478	ENSG00000214642
-0.1201	0.5478	ENSG00000136997
0.12008	0.45221	ENSG00000001626
0.12006	0.45222	ENSG00000172671
0.12006	0.45222	ENSG00000111203

-0.12	0.54776	ENSG00000204965
0.12	0.45224	ENSG00000198133
-0.11986	0.5477	ENSG00000082684
-0.11984	0.5477	ENSG00000146143
-0.11973	0.54765	ENSG00000118402
-0.11971	0.54765	ENSG00000177575
-0.1197	0.54764	ENSG00000170477
-0.11952	0.54757	ENSG00000183808
-0.11941	0.54752	ENSG00000028137
0.11933	0.45251	ENSG00000141485
-0.1193	0.54748	ENSG00000151665
0.11911	0.45259	ENSG00000159128
0.11909	0.4526	ENSG00000198408
0.11897	0.45265	ENSG00000204256
-0.11891	0.54733	ENSG00000196584
-0.11886	0.54731	ENSG00000268556
-0.11877	0.54727	ENSG00000189367
-0.11872	0.54725	ENSG00000185958
-0.11871	0.54725	ENSG00000166947
0.11869	0.45276	ENSG00000165269
0.11868	0.45277	ENSG00000203392
0.11867	0.45277	ENSG00000077549
0.11859	0.4528	ENSG00000136449
-0.11856	0.54719	ENSG00000101246
-0.11828	0.54708	ENSG00000113209
0.11828	0.45292	ENSG00000168427
-0.11818	0.54704	ENSG00000078246
0.11817	0.45297	ENSG00000104892
-0.11815	0.54703	ENSG00000141569
0.1181	0.453	ENSG00000062598
-0.11809	0.547	ENSG00000129460
0.11804	0.45302	ENSG00000177951
-0.118	0.54697	ENSG00000123700
-0.11799	0.54696	ENSG00000155363
0.11795	0.45305	ENSG00000083812
0.11794	0.45306	ENSG00000186160
-0.11783	0.5469	ENSG00000130731
-0.11766	0.54683	ENSG00000010810
0.11762	0.45318	ENSG00000196352
0.11752	0.45322	ENSG00000143569
-0.11741	0.54673	ENSG00000140519
0.11741	0.45327	ENSG00000233436
0.11738	0.45328	ENSG00000171459
0.1173	0.45331	ENSG00000164109
-0.11726	0.54667	ENSG00000079459
-0.11718	0.54664	ENSG00000180264
0.11718	0.45336	ENSG00000184344
-0.11716	0.54663	ENSG00000105576
-0.11711	0.54661	ENSG00000177679
-0.1171	0.54661	ENSG00000118260
-0.1171	0.54661	ENSG00000075407

0.1171	0.45339	ENSG00000116729
-0.11708	0.5466	ENSG00000139187
0.11706	0.45341	ENSG00000124237
0.11693	0.45346	ENSG00000100228
0.11691	0.45347	ENSG00000025772
0.11686	0.45349	ENSG00000144895
0.11676	0.45353	ENSG00000113389
0.11657	0.4536	ENSG00000172216
0.11653	0.45362	ENSG00000106993
0.11634	0.45369	ENSG00000007402
0.11632	0.4537	ENSG00000156006
0.11625	0.45373	ENSG00000184566
0.11619	0.45375	ENSG00000221983
0.11618	0.45376	ENSG00000198707
-0.11603	0.54618	ENSG00000197362
0.1159	0.45387	ENSG00000162869
-0.11583	0.54611	ENSG00000158125
-0.11582	0.5461	ENSG00000247596
-0.11581	0.5461	ENSG00000120327
-0.11581	0.5461	ENSG00000269048
-0.11557	0.546	ENSG00000196422
-0.11556	0.546	ENSG00000162910
-0.11548	0.54597	ENSG00000075035
-0.11546	0.54596	ENSG00000197594
0.11546	0.45404	ENSG00000100092
0.11541	0.45406	ENSG00000178952
-0.11537	0.54592	ENSG00000146963
0.11532	0.45409	ENSG00000138823
0.11527	0.45411	ENSG00000136982
-0.11515	0.54584	ENSG00000139330
0.11514	0.45417	ENSG00000139055
-0.115	0.54578	ENSG00000130733
-0.11498	0.54577	ENSG00000139083
-0.11497	0.54577	ENSG00000160352
0.11496	0.45424	ENSG00000165959
0.11489	0.45427	ENSG00000198466
-0.11488	0.54573	ENSG00000182013
-0.1148	0.5457	ENSG00000105518
0.1148	0.4543	ENSG00000110944
-0.11473	0.54567	ENSG00000203705
0.11456	0.4544	ENSG00000111537
-0.1144	0.54554	ENSG00000187189
0.1144	0.45446	ENSG00000185823
-0.1143	0.5455	ENSG00000214686
-0.1143	0.5455	ENSG00000124693
-0.11426	0.54548	ENSG00000198944
0.11408	0.45459	ENSG00000105792
0.11391	0.45465	ENSG00000180592
-0.11359	0.54522	ENSG00000169905
-0.11344	0.54516	ENSG00000161649
0.11344	0.45484	ENSG00000174015

-0.11337	0.54513	ENSG00000128185
0.11329	0.4549	ENSG00000179630
-0.11328	0.5451	ENSG00000109576
0.11325	0.45492	ENSG00000197345
0.11322	0.45493	ENSG00000101342
-0.11315	0.54505	ENSG00000140382
0.11306	0.45499	ENSG00000166317
-0.113	0.54499	ENSG00000104660
-0.11292	0.54495	ENSG00000255835
-0.11287	0.54493	ENSG00000166501
-0.11281	0.54491	ENSG00000073150
0.11279	0.4551	ENSG00000138669
0.11266	0.45515	ENSG00000070047
-0.11263	0.54484	ENSG00000169621
-0.11262	0.54484	ENSG00000135404
-0.1126	0.54482	ENSG00000064102
0.11254	0.4552	ENSG00000038427
-0.11249	0.54478	ENSG00000133316
-0.11237	0.54473	ENSG00000114520
0.1123	0.45529	ENSG00000135441
-0.11228	0.5447	ENSG00000235878
-0.11222	0.54468	ENSG00000179144
-0.11221	0.54467	ENSG00000105549
-0.11211	0.54463	ENSG00000176095
-0.11203	0.5446	ENSG00000179331
0.11203	0.4554	ENSG00000198877
-0.11202	0.5446	ENSG00000081842
0.11199	0.45541	ENSG00000179299
-0.11195	0.54457	ENSG00000118961
0.11195	0.45543	ENSG00000144840
0.11192	0.45544	ENSG00000141499
-0.1118	0.54451	ENSG00000149177
-0.11176	0.54449	ENSG00000168621
0.11157	0.45558	ENSG00000167244
-0.1115	0.54439	ENSG00000255432
-0.1115	0.54439	ENSG00000126822
-0.11108	0.54422	ENSG00000214872
0.11107	0.45578	ENSG00000125492
0.11104	0.45579	ENSG00000007944
-0.111	0.54419	ENSG00000165379
-0.11097	0.54418	ENSG00000132631
0.11075	0.45591	ENSG00000105341
-0.11064	0.54405	ENSG00000162645
0.11064	0.45595	ENSG00000143578
-0.11044	0.54397	ENSG00000005471
-0.11036	0.54394	ENSG00000140153
0.11033	0.45607	ENSG00000186318
0.11011	0.45616	ENSG00000196177
-0.11	0.54379	ENSG00000130177
-0.10993	0.54377	ENSG00000204149
0.1099	0.45624	ENSG00000185069

0.10988	0.45625	ENSG00000162654
0.1098	0.45628	ENSG00000009724
-0.10958	0.54363	ENSG00000140006
0.10958	0.45637	ENSG00000124571
0.10952	0.4564	ENSG00000245848
-0.10947	0.54359	ENSG00000151694
-0.10941	0.54356	ENSG00000213533
0.10929	0.45649	ENSG00000115977
-0.10918	0.54347	ENSG00000037897
0.1091	0.45656	ENSG00000176009
-0.10899	0.54339	ENSG00000136859
0.10889	0.45664	ENSG00000239306
-0.10887	0.54335	ENSG00000129925
-0.10883	0.54333	ENSG00000166828
0.1088	0.45668	ENSG00000100906
0.10872	0.45671	ENSG00000171234
0.10866	0.45674	ENSG00000148513
0.10863	0.45675	ENSG00000204147
0.10856	0.45678	ENSG00000126216
-0.10852	0.54321	ENSG00000151445
-0.10842	0.54317	ENSG00000128059
-0.10838	0.54315	ENSG00000114735
0.10838	0.45685	ENSG00000228032
-0.1082	0.54308	ENSG00000171282
0.10811	0.45695	ENSG00000146802
-0.10806	0.54303	ENSG00000117682
0.10769	0.45712	ENSG00000143631
-0.10768	0.54288	ENSG00000158158
-0.10758	0.54283	ENSG00000188493
0.10754	0.45718	ENSG00000088038
-0.10749	0.5428	ENSG00000143183
0.10742	0.45723	ENSG00000141664
0.1074	0.45724	ENSG00000163946
0.10739	0.45724	ENSG00000179218
-0.10736	0.54275	ENSG00000171320
-0.1073	0.54272	ENSG00000188643
-0.10722	0.54269	ENSG00000100726
0.10719	0.45732	ENSG00000110975
-0.10718	0.54268	ENSG00000203864
0.10701	0.45739	ENSG00000057704
-0.10699	0.5426	ENSG00000137976
-0.10694	0.54258	ENSG00000181856
-0.10688	0.54256	ENSG00000103227
-0.10684	0.54254	ENSG00000267545
0.10677	0.45749	ENSG00000084733
0.10663	0.45754	ENSG00000258256
-0.10648	0.5424	ENSG00000267950
0.10636	0.45765	ENSG00000162040
-0.1063	0.54233	ENSG00000145041
0.10609	0.45776	ENSG00000085721
-0.10608	0.54224	ENSG00000149577

0.10593	0.45782	ENSG00000173621
-0.1059	0.54217	ENSG00000146648
0.10585	0.45785	ENSG00000152990
0.10581	0.45787	ENSG00000213918
0.10573	0.4579	ENSG00000143198
-0.1056	0.54205	ENSG00000172061
-0.10554	0.54203	ENSG00000066735
0.10551	0.45799	ENSG00000162520
0.10545	0.45801	ENSG00000172782
0.10537	0.45804	ENSG00000178188
-0.10527	0.54192	ENSG00000066136
-0.10526	0.54191	ENSG00000162073
-0.10523	0.5419	ENSG00000184307
0.1052	0.45811	ENSG00000103154
0.10519	0.45811	ENSG00000152082
-0.10514	0.54187	ENSG00000188931
0.1051	0.45815	ENSG00000175602
0.10509	0.45815	ENSG00000163605
-0.10508	0.54184	ENSG00000204961
0.10508	0.45816	ENSG00000183741
-0.10498	0.54181	ENSG00000153294
-0.10484	0.54175	ENSG00000188282
0.10476	0.45828	ENSG00000138814
0.10474	0.45829	ENSG00000099250
-0.10468	0.54169	ENSG00000166862
0.10455	0.45836	ENSG00000135778
0.10449	0.45839	ENSG00000269402
-0.10443	0.54159	ENSG00000269469
0.1043	0.45847	ENSG00000136828
-0.10429	0.54153	ENSG00000166682
-0.10416	0.54148	ENSG00000156469
-0.10405	0.54144	ENSG00000068654
-0.10401	0.54142	ENSG00000132932
-0.10397	0.5414	ENSG00000173991
-0.10396	0.5414	ENSG00000011426
0.10393	0.45861	ENSG00000054611
0.10367	0.45871	ENSG00000105229
-0.10357	0.54124	ENSG00000181333
0.10352	0.45878	ENSG00000198049
0.10348	0.45879	ENSG00000136444
-0.10336	0.54116	ENSG00000111790
-0.10336	0.54116	ENSG00000176678
0.10334	0.45885	ENSG00000123329
-0.1033	0.54114	ENSG00000167644
-0.10329	0.54113	ENSG00000204003
0.10329	0.45887	ENSG00000109944
0.10329	0.45887	ENSG00000197381
-0.10324	0.54111	ENSG00000146038
0.10316	0.45892	ENSG00000198796
-0.10308	0.54105	ENSG00000140465
0.10296	0.459	ENSG00000159140

-0.10291	0.54098	ENSG00000134371
-0.10287	0.54097	ENSG00000197706
0.10269	0.4591	ENSG00000179476
0.10268	0.45911	ENSG00000196865
0.10265	0.45912	ENSG00000143740
-0.10235	0.54076	ENSG00000102891
0.10226	0.45927	ENSG00000140396
0.10222	0.45929	ENSG00000100979
0.10214	0.45932	ENSG00000145416
-0.1021	0.54066	ENSG00000115053
-0.10206	0.54064	ENSG00000198854
0.10198	0.45939	ENSG00000241322
0.10194	0.4594	ENSG00000179772
-0.10179	0.54054	ENSG00000125788
-0.10178	0.54053	ENSG00000007516
-0.10169	0.5405	ENSG00000133477
-0.10166	0.54049	ENSG00000109458
0.10166	0.45951	ENSG00000142409
-0.10156	0.54045	ENSG00000132313
-0.10125	0.54032	ENSG00000218819
-0.10125	0.54032	ENSG00000168872
-0.10125	0.54032	ENSG00000183778
0.10125	0.45968	ENSG00000185149
-0.10119	0.5403	ENSG00000183785
-0.10111	0.54027	ENSG00000103363
0.10102	0.45977	ENSG00000180389
-0.10097	0.54021	ENSG00000267318
0.1009	0.45982	ENSG00000164304
0.10088	0.45982	ENSG00000236981
-0.10084	0.54016	ENSG00000268208
-0.10082	0.54015	ENSG00000077684
0.10068	0.4599	ENSG00000160202
0.10058	0.45994	ENSG00000073921
-0.10052	0.54004	ENSG00000135315
-0.10052	0.54004	ENSG00000205754
0.10052	0.45997	ENSG00000153130
-0.1005	0.54003	ENSG00000204388
-0.10046	0.54001	ENSG00000179934
-0.10045	0.54001	ENSG00000161652
0.10037	0.46003	ENSG00000136872
-0.10036	0.53997	ENSG00000087495
0.1003	0.46005	ENSG00000159374
0.10028	0.46006	ENSG00000143367
-0.10024	0.53992	ENSG00000125901
-0.10022	0.53991	ENSG00000269955
0.10021	0.46009	ENSG00000188732
0.10016	0.46011	ENSG00000172809
-0.10011	0.53987	ENSG00000169136
0.10008	0.46014	ENSG00000173933
0.10006	0.46015	ENSG00000162878
0.10001	0.46017	ENSG00000178445

-0.1	0.53983	ENSG00000127184
-0.1	0.53983	ENSG00000264058
0.09996	0.46019	ENSG00000105771
-0.099904	0.53979	ENSG00000176542
0.099867	0.46023	ENSG00000161638
0.099863	0.46023	ENSG00000106460
-0.09984	0.53976	ENSG00000086967
-0.099706	0.53971	ENSG00000102837
0.09969	0.4603	ENSG00000257062
-0.099595	0.53967	ENSG00000038945
0.099349	0.46043	ENSG00000116819
-0.099292	0.53955	ENSG00000258247
-0.099105	0.53947	ENSG00000231924
0.09896	0.46058	ENSG00000073605
-0.09867	0.5393	ENSG00000188219
0.098491	0.46077	ENSG00000239900
-0.098449	0.53921	ENSG00000197360
0.098418	0.4608	ENSG00000225996
-0.098398	0.53919	ENSG00000257046
-0.098375	0.53918	ENSG00000140284
-0.098238	0.53913	ENSG00000173727
-0.098229	0.53912	ENSG00000138085
-0.098223	0.53912	ENSG00000173141
-0.097953	0.53902	ENSG00000178665
0.097898	0.46101	ENSG00000151327
0.097868	0.46102	ENSG00000073578
-0.097857	0.53898	ENSG00000169032
-0.097778	0.53895	ENSG00000151388
0.097724	0.46108	ENSG00000167695
0.097647	0.46111	ENSG00000183255
0.097639	0.46111	ENSG00000132522
-0.097532	0.53885	ENSG00000203797
-0.097359	0.53878	ENSG00000172410
0.097329	0.46123	ENSG00000177352
0.097311	0.46124	ENSG00000105866
-0.097228	0.53873	ENSG00000189184
-0.09721	0.53872	ENSG00000132541
0.09706	0.46134	ENSG00000137745
0.097054	0.46134	ENSG00000136986
0.097027	0.46135	ENSG00000105552
0.096892	0.46141	ENSG00000163599
-0.096822	0.53857	ENSG00000118702
0.096655	0.4615	ENSG00000269766
-0.096576	0.53847	ENSG00000090924
-0.096542	0.53846	ENSG00000187997
0.096538	0.46155	ENSG00000105254
-0.09621	0.53832	ENSG00000170748
-0.096044	0.53826	ENSG00000244486
-0.095982	0.53823	ENSG00000183977
-0.095899	0.5382	ENSG00000088256
-0.095841	0.53818	ENSG00000132840

0.095782	0.46185	ENSG00000119535
-0.095693	0.53812	ENSG00000196597
-0.095597	0.53808	ENSG00000185085
-0.095487	0.53804	ENSG00000205745
0.095483	0.46197	ENSG00000121060
-0.095345	0.53798	ENSG00000095739
-0.095294	0.53796	ENSG00000268434
-0.095248	0.53794	ENSG00000213931
-0.095135	0.5379	ENSG00000133640
-0.095127	0.53789	ENSG00000138795
0.094952	0.46218	ENSG00000121058
0.094878	0.46221	ENSG00000132958
0.094816	0.46223	ENSG00000127481
0.094714	0.46227	ENSG00000163788
0.094682	0.46228	ENSG00000185055
-0.094561	0.53767	ENSG00000250486
0.094459	0.46237	ENSG00000174177
-0.094439	0.53762	ENSG00000105426
0.094406	0.46239	ENSG00000108424
0.094398	0.4624	ENSG00000235376
-0.09437	0.53759	ENSG00000136156
-0.094344	0.53758	ENSG00000188959
-0.094262	0.53755	ENSG00000153993
-0.094229	0.53754	ENSG00000138434
0.094004	0.46255	ENSG00000152767
0.093941	0.46258	ENSG00000150551
0.093908	0.46259	ENSG00000033800
0.093723	0.46266	ENSG00000010219
0.093708	0.46267	ENSG00000256892
-0.093599	0.53729	ENSG00000162836
-0.093557	0.53727	ENSG00000154768
-0.093503	0.53725	ENSG00000105372
-0.093498	0.53725	ENSG00000205300
0.093428	0.46278	ENSG00000089558
0.093415	0.46279	ENSG00000172005
-0.093286	0.53716	ENSG00000133661
0.093202	0.46287	ENSG00000205155
-0.093185	0.53712	ENSG00000196549
0.093116	0.46291	ENSG00000171453
0.093022	0.46294	ENSG00000104368
0.092933	0.46298	ENSG00000196419
0.092893	0.46299	ENSG00000203733
-0.092821	0.53698	ENSG00000170852
-0.092775	0.53696	ENSG00000163444
-0.092775	0.53696	ENSG00000175928
-0.092728	0.53694	ENSG00000168505
0.092689	0.46308	ENSG00000115461
0.092676	0.46308	ENSG00000104812
-0.092574	0.53688	ENSG00000160877
0.092535	0.46314	ENSG00000135363
-0.092433	0.53682	ENSG00000122859

-0.092417	0.53682	ENSG00000259458
-0.092411	0.53681	ENSG00000077063
-0.09239	0.53681	ENSG00000161798
-0.092366	0.5368	ENSG00000205882
0.092326	0.46322	ENSG00000121390
0.092223	0.46326	ENSG00000168754
-0.092218	0.53674	ENSG00000182224
-0.092179	0.53672	ENSG00000162337
-0.092124	0.5367	ENSG00000118217
-0.092024	0.53666	ENSG00000088356
-0.091986	0.53665	ENSG00000091136
-0.091925	0.53662	ENSG00000172927
-0.091782	0.53656	ENSG00000101104
-0.091616	0.5365	ENSG00000134070
0.091589	0.46351	ENSG00000080815
0.091514	0.46354	ENSG00000186480
-0.091447	0.53643	ENSG00000170074
0.091411	0.46358	ENSG00000110887
0.091368	0.4636	ENSG00000269099
-0.091274	0.53636	ENSG00000165714
-0.091236	0.53635	ENSG00000132003
0.09121	0.46366	ENSG00000159788
0.091177	0.46368	ENSG00000126550
-0.091117	0.5363	ENSG00000268628
0.091115	0.4637	ENSG00000168246
-0.091046	0.53627	ENSG00000166263
0.091038	0.46373	ENSG00000135596
-0.090925	0.53622	ENSG00000198844
0.090816	0.46382	ENSG00000218891
0.090803	0.46382	ENSG00000108551
-0.090767	0.53616	ENSG00000132530
0.090697	0.46387	ENSG00000156876
-0.090615	0.5361	ENSG00000259202
0.090613	0.4639	ENSG00000269071
-0.090607	0.5361	ENSG00000171853
-0.090599	0.53609	ENSG00000197701
0.090439	0.46397	ENSG00000106327
0.090428	0.46397	ENSG00000165078
0.090411	0.46398	ENSG00000087502
0.090296	0.46403	ENSG00000171530
0.090236	0.46405	ENSG00000100865
-0.090208	0.53594	ENSG00000185272
-0.090168	0.53592	ENSG00000140285
-0.090138	0.53591	ENSG00000163558
-0.090091	0.53589	ENSG00000167780
0.090049	0.46412	ENSG00000081386
0.090049	0.46412	ENSG00000183530
0.090027	0.46413	ENSG00000105507
0.089925	0.46417	ENSG00000144120
-0.08984	0.53579	ENSG00000096092
-0.089787	0.53577	ENSG00000138095

-0.089768	0.53576	ENSG00000126217
0.089732	0.46425	ENSG00000214021
-0.089599	0.5357	ENSG00000174407
0.08959	0.46431	ENSG00000057657
-0.089506	0.53566	ENSG00000095932
0.089416	0.46438	ENSG00000115257
-0.089389	0.53561	ENSG00000100220
-0.089358	0.5356	ENSG00000188549
-0.089326	0.53559	ENSG00000121940
-0.089281	0.53557	ENSG00000169696
0.089186	0.46447	ENSG00000110002
0.089177	0.46447	ENSG00000159958
-0.088996	0.53546	ENSG00000196136
0.088873	0.46459	ENSG00000197702
0.08878	0.46463	ENSG00000111802
0.08871	0.46466	ENSG00000161860
-0.088587	0.5353	ENSG00000137752
-0.088574	0.53529	ENSG00000180611
-0.088495	0.53526	ENSG00000196660
0.088434	0.46477	ENSG00000122692
0.088405	0.46478	ENSG00000204957
0.088313	0.46481	ENSG00000090054
-0.088289	0.53518	ENSG00000106976
0.088017	0.46493	ENSG00000203727
-0.087987	0.53506	ENSG00000198315
0.087954	0.46496	ENSG00000125875
-0.087949	0.53504	ENSG00000185758
-0.087909	0.53503	ENSG00000159459
0.08784	0.465	ENSG00000184650
0.087801	0.46502	ENSG00000181790
0.087799	0.46502	ENSG00000163623
-0.087786	0.53498	ENSG00000149932
0.087728	0.46505	ENSG00000158793
0.087647	0.46508	ENSG00000198208
0.087593	0.4651	ENSG00000180720
-0.087513	0.53487	ENSG00000165105
0.087478	0.46515	ENSG00000165061
-0.087437	0.53484	ENSG00000162819
0.087429	0.46517	ENSG00000146147
0.087387	0.46518	ENSG00000147650
-0.087287	0.53478	ENSG00000138036
0.087233	0.46524	ENSG00000135541
0.087184	0.46526	ENSG00000223474
-0.087169	0.53473	ENSG00000166340
0.087071	0.46531	ENSG00000173627
0.087056	0.46531	ENSG00000169903
-0.086973	0.53465	ENSG00000107890
-0.086952	0.53464	ENSG00000111011
-0.086936	0.53464	ENSG00000107175
0.086889	0.46538	ENSG00000205795
-0.086869	0.53461	ENSG00000127870

0.086821	0.46541	ENSG00000079156
0.086693	0.46546	ENSG00000187758
0.086588	0.4655	ENSG00000042317
-0.08649	0.53446	ENSG00000186710
0.086448	0.46556	ENSG00000183340
-0.086165	0.53433	ENSG00000249773
0.086086	0.4657	ENSG00000138785
-0.086076	0.5343	ENSG00000146955
0.085936	0.46576	ENSG00000144711
-0.085749	0.53417	ENSG00000121741
-0.085666	0.53413	ENSG00000114650
-0.085518	0.53408	ENSG00000066322
0.085483	0.46594	ENSG00000177842
-0.08547	0.53406	ENSG00000059122
0.085356	0.46599	ENSG00000171456
0.085344	0.46599	ENSG00000197915
0.085338	0.466	ENSG00000170340
-0.085283	0.53398	ENSG00000167123
-0.085242	0.53397	ENSG00000267970
0.08524	0.46604	ENSG00000185324
0.085155	0.46607	ENSG00000177432
0.085147	0.46607	ENSG00000235711
-0.085143	0.53393	ENSG00000143570
0.085141	0.46607	ENSG00000130347
-0.085046	0.53389	ENSG00000146399
0.085013	0.46613	ENSG00000171757
-0.084864	0.53382	ENSG00000155980
-0.084852	0.53381	ENSG00000172794
0.08485	0.46619	ENSG00000078328
-0.084826	0.5338	ENSG00000184351
-0.084688	0.53375	ENSG00000123552
-0.084687	0.53375	ENSG00000143353
-0.084656	0.53373	ENSG00000149635
0.084601	0.46629	ENSG00000155252
0.0846	0.46629	ENSG00000149968
-0.084571	0.5337	ENSG00000227184
-0.084513	0.53368	ENSG00000076924
-0.084416	0.53364	ENSG00000079134
-0.084415	0.53364	ENSG00000109061
0.084391	0.46637	ENSG00000156234
0.084291	0.46641	ENSG00000268925
0.084152	0.46647	ENSG00000005102
0.084084	0.46649	ENSG00000169231
0.08397	0.46654	ENSG00000140950
-0.083945	0.53345	ENSG00000076555
-0.083929	0.53344	ENSG00000072571
0.083894	0.46657	ENSG00000174799
0.083894	0.46657	ENSG00000091137
0.08384	0.46659	ENSG00000176222
0.083819	0.4666	ENSG00000172772
0.083742	0.46663	ENSG00000172349

0.083698	0.46665	ENSG00000177469
0.083488	0.46673	ENSG00000198822
0.083472	0.46674	ENSG00000137411
-0.083452	0.53325	ENSG00000145087
0.083296	0.46681	ENSG00000136827
-0.083253	0.53317	ENSG00000048740
-0.083224	0.53316	ENSG00000110844
-0.083217	0.53316	ENSG00000100614
0.083178	0.46686	ENSG00000180878
-0.083161	0.53314	ENSG00000155256
0.08314	0.46687	ENSG00000144230
0.083088	0.46689	ENSG00000105198
0.083072	0.4669	ENSG00000173451
-0.083049	0.53309	ENSG00000076003
0.083041	0.46691	ENSG00000173801
-0.083012	0.53308	ENSG00000076650
-0.083002	0.53307	ENSG00000153237
-0.082994	0.53307	ENSG00000099960
-0.08293	0.53305	ENSG00000174343
0.082808	0.467	ENSG00000039600
0.082781	0.46701	ENSG00000164050
0.082717	0.46704	ENSG00000006606
-0.08248	0.53287	ENSG00000107611
-0.082479	0.53287	ENSG00000140688
-0.082469	0.53286	ENSG00000123892
0.082437	0.46715	ENSG00000078403
-0.082386	0.53283	ENSG00000182446
-0.082353	0.53282	ENSG00000178789
-0.082214	0.53276	ENSG00000181240
0.082189	0.46725	ENSG00000153443
0.082188	0.46725	ENSG00000188997
0.082142	0.46727	ENSG00000237435
0.082126	0.46727	ENSG00000119335
-0.082023	0.53269	ENSG00000146072
-0.082022	0.53269	ENSG00000133884
-0.081959	0.53266	ENSG00000164743
-0.081956	0.53266	ENSG00000206075
-0.08183	0.53261	ENSG00000106399
0.08178	0.46741	ENSG00000163719
0.081742	0.46743	ENSG00000267477
-0.081719	0.53256	ENSG00000162723
0.081682	0.46745	ENSG00000175093
0.081672	0.46745	ENSG00000113300
0.081546	0.4675	ENSG00000164953
-0.081526	0.53249	ENSG00000123338
-0.081404	0.53244	ENSG00000136881
0.081354	0.46758	ENSG00000198003
0.08135	0.46758	ENSG00000149050
0.081264	0.46762	ENSG00000171049
0.081156	0.46766	ENSG00000163406
0.081098	0.46768	ENSG00000123454

-0.081053	0.5323	ENSG00000221838
0.081005	0.46772	ENSG00000173166
-0.080945	0.53226	ENSG00000128383
0.080915	0.46775	ENSG00000100739
0.080858	0.46778	ENSG00000237649
0.080843	0.46778	ENSG00000125037
0.080818	0.46779	ENSG00000204472
0.080801	0.4678	ENSG00000183562
0.0808	0.4678	ENSG00000256162
-0.080769	0.53219	ENSG00000213588
0.080743	0.46782	ENSG00000112541
-0.080602	0.53212	ENSG00000171865
0.080522	0.46791	ENSG00000213780
0.080415	0.46795	ENSG00000164687
-0.080391	0.53204	ENSG00000163961
-0.080218	0.53197	ENSG00000136238
0.080217	0.46803	ENSG00000125378
0.080152	0.46806	ENSG00000143816
0.079977	0.46813	ENSG00000043355
-0.079938	0.53186	ENSG00000173825
-0.079923	0.53185	ENSG00000196497
-0.079923	0.53185	ENSG00000259522
0.079901	0.46816	ENSG00000145390
0.079821	0.46819	ENSG00000115652
0.079744	0.46822	ENSG00000108946
0.079643	0.46826	ENSG00000158623
0.079612	0.46827	ENSG00000129351
-0.079565	0.53171	ENSG00000162366
-0.079391	0.53164	ENSG00000113456
0.079325	0.46839	ENSG00000204970
0.079276	0.46841	ENSG00000152266
-0.079202	0.53156	ENSG00000179632
0.079097	0.46848	ENSG00000160255
0.079068	0.46849	ENSG00000268926
-0.078994	0.53148	ENSG00000167005
-0.078982	0.53148	ENSG00000169594
0.078964	0.46853	ENSG00000115207
0.078947	0.46854	ENSG00000132386
-0.078816	0.53141	ENSG00000182255
0.078735	0.46862	ENSG00000170006
0.078715	0.46863	ENSG00000119973
-0.078689	0.53136	ENSG00000008283
0.078683	0.46864	ENSG00000204463
-0.078643	0.53134	ENSG00000058799
-0.078482	0.53128	ENSG00000254536
0.07843	0.46874	ENSG00000107521
-0.078351	0.53123	ENSG00000150977
0.078306	0.46879	ENSG00000113889
-0.077916	0.53105	ENSG00000154359
-0.077869	0.53103	ENSG00000161807
-0.077753	0.53099	ENSG00000110025

0.077748	0.46901	ENSG00000102794
-0.077611	0.53093	ENSG00000197872
-0.077593	0.53092	ENSG00000198797
-0.077532	0.5309	ENSG00000222020
-0.077427	0.53086	ENSG00000072210
0.077339	0.46918	ENSG00000169682
0.077329	0.46918	ENSG00000153207
0.077281	0.4692	ENSG00000255302
-0.076908	0.53065	ENSG00000268130
-0.076875	0.53064	ENSG00000179933
-0.076849	0.53063	ENSG00000169689
-0.076754	0.53059	ENSG00000154611
0.076725	0.46942	ENSG00000144535
0.076714	0.46943	ENSG00000012223
0.076648	0.46945	ENSG00000159650
-0.076569	0.53052	ENSG00000186130
0.076456	0.46953	ENSG00000273003
-0.076376	0.53044	ENSG00000147872
-0.076364	0.53044	ENSG00000152154
-0.076281	0.5304	ENSG00000174574
-0.07619	0.53037	ENSG00000142207
-0.076134	0.53034	ENSG00000261115
-0.076075	0.53032	ENSG00000144642
-0.076062	0.53032	ENSG00000165140
-0.075948	0.53027	ENSG00000204305
0.075867	0.46976	ENSG00000115756
-0.075855	0.53023	ENSG00000156564
-0.075695	0.53017	ENSG00000144228
-0.075624	0.53014	ENSG00000167733
0.075619	0.46986	ENSG00000138796
0.075606	0.46987	ENSG00000162496
0.075594	0.46987	ENSG00000120437
0.075521	0.4699	ENSG00000084774
0.075453	0.46993	ENSG00000154252
-0.075381	0.53004	ENSG00000152270
-0.07532	0.53002	ENSG00000135226
0.075311	0.46998	ENSG00000170242
0.075295	0.46999	ENSG00000250588
-0.075293	0.53001	ENSG00000104626
0.075269	0.47	ENSG00000142619
0.075259	0.47	ENSG00000136628
-0.074977	0.52988	ENSG00000112033
-0.074858	0.52984	ENSG00000110987
0.074733	0.47021	ENSG00000198162
0.074575	0.47028	ENSG00000197329
0.074557	0.47028	ENSG00000116690
0.074515	0.4703	ENSG00000105559
-0.074382	0.52965	ENSG00000140479
-0.074311	0.52962	ENSG00000118194
-0.074252	0.52959	ENSG00000105479
0.074093	0.47047	ENSG00000174231

-0.074071	0.52952	ENSG00000107614
0.074011	0.4705	ENSG00000101019
0.073975	0.47052	ENSG00000198585
-0.073958	0.52948	ENSG00000111981
0.0738	0.47058	ENSG00000019991
-0.073772	0.5294	ENSG00000089123
0.073704	0.47062	ENSG00000148200
-0.07365	0.52936	ENSG00000111801
0.073646	0.47065	ENSG00000164068
0.073607	0.47066	ENSG00000163630
0.07351	0.4707	ENSG00000122223
-0.073448	0.52928	ENSG00000131697
-0.073347	0.52924	ENSG00000105738
0.073197	0.47082	ENSG00000143195
-0.073196	0.52917	ENSG00000143819
-0.073173	0.52917	ENSG00000168488
-0.073044	0.52911	ENSG00000170584
0.072917	0.47094	ENSG00000184154
0.07289	0.47095	ENSG00000204396
-0.072879	0.52905	ENSG00000176715
-0.0728	0.52902	ENSG00000006327
-0.072676	0.52897	ENSG00000154556
-0.072676	0.52897	ENSG00000161572
0.072613	0.47106	ENSG00000189241
0.072576	0.47107	ENSG00000269403
0.072482	0.47111	ENSG00000125445
0.072427	0.47113	ENSG00000214842
0.072374	0.47115	ENSG00000122490
0.072351	0.47116	ENSG00000101412
-0.072254	0.5288	ENSG00000268953
-0.072192	0.52878	ENSG00000153896
-0.072116	0.52875	ENSG00000197321
0.072081	0.47127	ENSG00000183696
-0.072044	0.52872	ENSG00000140471
0.071993	0.4713	ENSG00000171848
0.071851	0.47136	ENSG00000150776
-0.071828	0.52863	ENSG00000174502
-0.071828	0.52863	ENSG00000183475
-0.071808	0.52862	ENSG00000140564
-0.071689	0.52858	ENSG00000185634
0.07167	0.47143	ENSG00000013275
0.071666	0.47143	ENSG00000103160
0.07165	0.47144	ENSG00000117724
-0.071557	0.52852	ENSG00000064835
0.071452	0.47152	ENSG00000134460
-0.07144	0.52848	ENSG00000170075
-0.071401	0.52846	ENSG00000180953
0.07139	0.47154	ENSG00000177971
-0.071364	0.52845	ENSG00000184164
-0.07135	0.52844	ENSG00000154035
-0.07112	0.52835	ENSG00000166333

0.071095	0.47166	ENSG00000138279
0.071011	0.47169	ENSG00000145879
-0.070949	0.52828	ENSG00000165970
-0.070897	0.52826	ENSG00000185627
-0.070854	0.52824	ENSG00000172818
0.070839	0.47176	ENSG00000099804
0.070747	0.4718	ENSG00000100325
-0.070679	0.52817	ENSG00000122545
-0.070554	0.52812	ENSG00000177646
0.070531	0.47189	ENSG00000178919
0.070486	0.4719	ENSG00000114126
0.070459	0.47191	ENSG00000185483
0.070442	0.47192	ENSG00000188373
0.070358	0.47195	ENSG00000159023
0.070349	0.47196	ENSG00000198771
-0.070338	0.52804	ENSG00000270024
0.070292	0.47198	ENSG00000082516
0.070258	0.47199	ENSG00000121039
0.070243	0.472	ENSG00000255307
0.070129	0.47205	ENSG00000101160
0.070117	0.47205	ENSG00000143553
-0.070018	0.52791	ENSG00000136874
-0.069967	0.52789	ENSG00000140548
-0.06993	0.52788	ENSG00000256229
0.069867	0.47215	ENSG00000010361
-0.069771	0.52781	ENSG00000243660
0.069742	0.4722	ENSG00000123352
0.069605	0.47225	ENSG00000163319
0.06951	0.47229	ENSG00000180535
-0.069317	0.52763	ENSG00000196290
0.0692	0.47242	ENSG00000165895
0.069183	0.47242	ENSG00000182634
0.069078	0.47246	ENSG00000188393
-0.069023	0.52751	ENSG00000145920
-0.068909	0.52747	ENSG00000173706
0.068823	0.47257	ENSG00000136010
-0.068803	0.52743	ENSG00000111906
0.068664	0.47263	ENSG00000180998
-0.068608	0.52735	ENSG00000180667
-0.068555	0.52733	ENSG00000143473
-0.068537	0.52732	ENSG00000162572
-0.06847	0.52729	ENSG00000145354
0.068442	0.47272	ENSG00000156973
-0.068438	0.52728	ENSG00000147687
0.068335	0.47276	ENSG00000154342
0.068287	0.47278	ENSG00000243449
-0.068188	0.52718	ENSG00000119421
-0.068184	0.52718	ENSG00000138381
0.068142	0.47284	ENSG00000203630
-0.06804	0.52712	ENSG00000148339
-0.068006	0.52711	ENSG00000148481

-0.067979	0.5271	ENSG00000213463
-0.067927	0.52708	ENSG00000068831
0.067883	0.47294	ENSG00000140506
-0.067809	0.52703	ENSG00000137807
-0.067734	0.527	ENSG00000163513
-0.067577	0.52694	ENSG00000169427
-0.067533	0.52692	ENSG00000138074
-0.067399	0.52687	ENSG00000151715
-0.067342	0.52685	ENSG00000162688
-0.067317	0.52684	ENSG00000214643
0.067282	0.47318	ENSG00000205659
-0.067244	0.52681	ENSG00000107951
0.067228	0.4732	ENSG00000196666
0.06721	0.47321	ENSG00000182912
0.067045	0.47327	ENSG00000105676
-0.066977	0.5267	ENSG00000268162
-0.066975	0.5267	ENSG00000187068
0.066818	0.47336	ENSG00000126858
0.066791	0.47337	ENSG00000087263
0.066686	0.47342	ENSG00000149923
-0.066621	0.52656	ENSG00000246705
0.066487	0.47349	ENSG00000197728
0.066352	0.47355	ENSG00000204393
-0.066351	0.52645	ENSG00000184560
0.066244	0.47359	ENSG00000204219
0.06621	0.47361	ENSG00000148357
0.066175	0.47362	ENSG00000145425
0.066101	0.47365	ENSG00000239672
-0.066018	0.52632	ENSG00000117697
0.065972	0.4737	ENSG00000213265
-0.065784	0.52623	ENSG00000159873
-0.065701	0.52619	ENSG00000260007
-0.065653	0.52617	ENSG00000168280
0.065622	0.47384	ENSG00000268800
0.065588	0.47385	ENSG00000174175
0.06547	0.4739	ENSG00000256018
0.065431	0.47392	ENSG00000070087
0.065428	0.47392	ENSG00000175768
-0.065398	0.52607	ENSG00000110080
0.065248	0.47399	ENSG00000164294
0.065226	0.474	ENSG00000162344
0.065213	0.474	ENSG00000090520
0.065195	0.47401	ENSG00000170577
0.065192	0.47401	ENSG00000242372
-0.064888	0.52587	ENSG00000150275
-0.064837	0.52585	ENSG00000116661
0.064773	0.47418	ENSG00000117507
-0.064716	0.5258	ENSG00000269531
-0.064661	0.52578	ENSG00000064655
0.06466	0.47422	ENSG00000183248
-0.064629	0.52577	ENSG00000196072

0.064612	0.47424	ENSG00000091129
-0.064553	0.52573	ENSG00000269858
-0.064465	0.5257	ENSG00000168394
-0.064344	0.52565	ENSG00000229544
-0.0643	0.52563	ENSG00000164330
-0.064149	0.52557	ENSG00000155833
-0.064132	0.52557	ENSG00000161958
0.064125	0.47444	ENSG00000187658
0.064046	0.47447	ENSG00000165972
0.063953	0.4745	ENSG00000182698
0.063854	0.47454	ENSG00000110400
0.063825	0.47455	ENSG00000258890
0.063684	0.47461	ENSG00000179886
-0.063681	0.52539	ENSG00000011347
0.063668	0.47462	ENSG00000204568
-0.063621	0.52536	ENSG00000141428
-0.063563	0.52534	ENSG00000177947
0.063517	0.47468	ENSG00000105499
-0.063491	0.52531	ENSG00000171951
-0.063318	0.52524	ENSG00000222028
0.063196	0.47481	ENSG00000198739
-0.062889	0.52507	ENSG00000109099
0.062835	0.47495	ENSG00000006282
-0.062825	0.52505	ENSG00000157005
0.062589	0.47505	ENSG00000005961
0.0625	0.47508	ENSG00000151338
-0.062489	0.52491	ENSG00000133069
-0.062482	0.52491	ENSG00000170523
0.062417	0.47512	ENSG00000164122
-0.061975	0.52471	ENSG00000170956
0.061906	0.47532	ENSG00000069345
0.061869	0.47533	ENSG00000179981
-0.061862	0.52466	ENSG00000005007
0.061832	0.47535	ENSG00000011258
0.061802	0.47536	ENSG00000268466
0.061786	0.47537	ENSG00000131966
-0.06178	0.52463	ENSG00000196188
0.061778	0.47537	ENSG00000119720
-0.061732	0.52461	ENSG00000182108
-0.061354	0.52446	ENSG00000152234
-0.061328	0.52445	ENSG00000118407
0.061321	0.47555	ENSG00000085365
0.06127	0.47557	ENSG00000158683
-0.061205	0.5244	ENSG00000183111
0.061187	0.4756	ENSG00000181733
-0.061105	0.52436	ENSG00000188293
0.061101	0.47564	ENSG00000068912
-0.060953	0.5243	ENSG00000161714
-0.060937	0.5243	ENSG00000135116
-0.0609	0.52428	ENSG00000163885
-0.060536	0.52414	ENSG00000141316

-0.060525	0.52413	ENSG00000198270
0.060502	0.47588	ENSG00000189233
0.060473	0.47589	ENSG00000119408
-0.060387	0.52408	ENSG00000107338
0.060382	0.47593	ENSG00000104756
0.060376	0.47593	ENSG00000170624
0.060258	0.47598	ENSG00000139351
0.06021	0.47599	ENSG00000163349
0.060184	0.476	ENSG00000173402
0.060055	0.47606	ENSG00000141150
-0.059986	0.52392	ENSG00000186998
0.059936	0.4761	ENSG00000184292
0.059902	0.47612	ENSG00000205339
-0.059782	0.52384	ENSG00000163554
-0.05973	0.52381	ENSG00000097021
0.059656	0.47621	ENSG00000239789
-0.059524	0.52373	ENSG00000095587
-0.059501	0.52372	ENSG00000112695
-0.05944	0.5237	ENSG00000176533
0.059355	0.47633	ENSG00000118257
-0.059293	0.52364	ENSG00000183473
-0.059124	0.52357	ENSG00000169894
-0.059027	0.52353	ENSG00000179271
0.05899	0.47648	ENSG00000161914
0.05894	0.4765	ENSG00000188011
0.058908	0.47651	ENSG00000157450
0.058815	0.47655	ENSG00000170689
-0.058808	0.52345	ENSG00000133104
-0.0587	0.5234	ENSG00000180098
-0.058606	0.52337	ENSG00000130816
-0.058443	0.5233	ENSG00000166926
0.058413	0.47671	ENSG00000146276
0.058386	0.47672	ENSG00000137818
-0.057936	0.5231	ENSG00000162191
0.057936	0.4769	ENSG00000197114
-0.057915	0.52309	ENSG00000259332
-0.057901	0.52309	ENSG00000166165
-0.057871	0.52307	ENSG00000088727
-0.057816	0.52305	ENSG00000124207
-0.057739	0.52302	ENSG00000164402
-0.057705	0.52301	ENSG00000138379
0.057462	0.47709	ENSG00000158050
-0.057447	0.52291	ENSG00000227345
0.057281	0.47716	ENSG00000114805
-0.05716	0.52279	ENSG00000132842
-0.057126	0.52278	ENSG00000146828
-0.057125	0.52278	ENSG00000225968
-0.057092	0.52276	ENSG00000176454
-0.057048	0.52275	ENSG00000213799
0.05703	0.47726	ENSG00000063854
0.057029	0.47726	ENSG00000167264

-0.056991	0.52272	ENSG00000155026
-0.056983	0.52272	ENSG00000179142
-0.056918	0.52269	ENSG00000185594
-0.056916	0.52269	ENSG00000132510
0.05686	0.47733	ENSG00000176555
0.056795	0.47735	ENSG00000104970
0.056732	0.47738	ENSG00000146005
-0.056692	0.5226	ENSG00000115255
0.056661	0.47741	ENSG00000108924
0.056635	0.47742	ENSG00000131652
-0.056512	0.52253	ENSG00000123609
0.056467	0.47748	ENSG00000146047
-0.05644	0.5225	ENSG00000170921
0.056429	0.4775	ENSG00000183615
-0.056381	0.52248	ENSG00000079689
-0.056345	0.52247	ENSG00000160208
0.0561	0.47763	ENSG00000085274
0.056058	0.47765	ENSG00000169245
0.056014	0.47767	ENSG00000167107
0.055971	0.47768	ENSG00000064115
0.05597	0.47768	ENSG00000132470
-0.055785	0.52224	ENSG00000118707
-0.055775	0.52224	ENSG00000120664
-0.055764	0.52224	ENSG00000122481
-0.055702	0.52221	ENSG00000145839
0.05568	0.4778	ENSG00000157445
-0.055646	0.52219	ENSG00000178568
0.055609	0.47783	ENSG00000206560
-0.055526	0.52214	ENSG00000149564
0.055468	0.47788	ENSG00000184451
0.055413	0.4779	ENSG00000243709
0.055383	0.47792	ENSG00000198515
0.055341	0.47793	ENSG00000175664
0.055338	0.47793	ENSG00000174080
0.055241	0.47797	ENSG00000030110
-0.055058	0.52195	ENSG00000144191
-0.055001	0.52193	ENSG00000151876
0.054888	0.47811	ENSG00000104129
-0.054873	0.52188	ENSG00000074935
0.05482	0.47814	ENSG00000151458
0.054784	0.47816	ENSG00000196754
-0.054768	0.52184	ENSG00000196814
-0.054752	0.52183	ENSG00000175224
0.054752	0.47817	ENSG00000144891
0.054684	0.4782	ENSG00000171446
0.054672	0.4782	ENSG00000179456
-0.054645	0.52179	ENSG00000184545
0.054588	0.47823	ENSG00000204539
-0.054571	0.52176	ENSG00000157741
-0.054436	0.52171	ENSG00000212722
-0.054427	0.5217	ENSG00000164305

-0.054371	0.52168	ENSG00000067141
-0.054275	0.52164	ENSG00000273269
0.054235	0.47837	ENSG00000041357
-0.054157	0.5216	ENSG00000133392
-0.054126	0.52158	ENSG00000173930
-0.053979	0.52152	ENSG00000172339
-0.053967	0.52152	ENSG00000269093
-0.053914	0.5215	ENSG00000105136
0.053799	0.47855	ENSG00000164440
0.05369	0.47859	ENSG00000243156
0.053681	0.47859	ENSG00000168214
-0.053613	0.52138	ENSG00000153317
0.053521	0.47866	ENSG00000050438
0.053504	0.47867	ENSG00000213585
-0.053476	0.52132	ENSG00000163141
-0.053415	0.5213	ENSG00000189129
-0.05336	0.52128	ENSG00000167754
-0.053257	0.52124	ENSG00000123739
-0.053209	0.52122	ENSG00000076248
0.053199	0.47879	ENSG00000258830
0.053146	0.47881	ENSG00000243284
0.053055	0.47884	ENSG00000171466
-0.052855	0.52108	ENSG00000165023
0.052791	0.47895	ENSG00000107738
-0.052771	0.52104	ENSG00000188883
0.052735	0.47897	ENSG00000187527
-0.052666	0.521	ENSG00000104957
-0.052656	0.521	ENSG00000100987
-0.052624	0.52098	ENSG00000081818
-0.052604	0.52098	ENSG00000033030
-0.052602	0.52098	ENSG00000013392
0.052486	0.47907	ENSG00000136273
0.052484	0.47907	ENSG00000103260
-0.052238	0.52083	ENSG00000132164
0.052157	0.4792	ENSG00000138640
0.052087	0.47923	ENSG00000107815
0.051995	0.47927	ENSG00000197603
0.051994	0.47927	ENSG00000160867
0.05194	0.47929	ENSG00000145494
0.051778	0.47935	ENSG00000259517
0.051715	0.47938	ENSG00000124089
-0.051658	0.5206	ENSG00000134809
-0.051633	0.52059	ENSG00000241484
0.051626	0.47941	ENSG00000141968
-0.051608	0.52058	ENSG00000135632
-0.051512	0.52054	ENSG00000174125
-0.051494	0.52053	ENSG00000160888
-0.051438	0.52051	ENSG00000131781
-0.051426	0.52051	ENSG00000187135
-0.051422	0.52051	ENSG00000170011
-0.05139	0.52049	ENSG00000185689

0.051177	0.47959	ENSG00000178927
0.051135	0.47961	ENSG00000136352
-0.05111	0.52038	ENSG00000163820
-0.05108	0.52037	ENSG00000188157
-0.051017	0.52034	ENSG00000170892
-0.050974	0.52033	ENSG00000268402
-0.050967	0.52032	ENSG00000268069
0.050933	0.47969	ENSG00000213190
-0.050742	0.52023	ENSG00000175183
0.050724	0.47977	ENSG00000186132
0.050724	0.47977	ENSG00000118046
0.050656	0.4798	ENSG00000188379
-0.050631	0.52019	ENSG00000173269
0.050574	0.47983	ENSG00000105131
-0.050556	0.52016	ENSG00000137872
0.050499	0.47986	ENSG00000100311
-0.050401	0.5201	ENSG00000185480
0.050398	0.4799	ENSG00000159210
-0.05031	0.52006	ENSG00000164896
-0.050307	0.52006	ENSG00000092871
0.050255	0.47996	ENSG00000180376
0.050205	0.47998	ENSG00000145220
0.050025	0.48005	ENSG00000177674
-0.049909	0.5199	ENSG00000150967
-0.049882	0.51989	ENSG00000176723
-0.049813	0.51986	ENSG00000148834
0.049801	0.48014	ENSG00000136883
-0.049725	0.51983	ENSG00000164742
0.049501	0.48026	ENSG00000104435
-0.049363	0.51969	ENSG00000135924
-0.049328	0.51967	ENSG00000198324
0.04915	0.4804	ENSG00000128626
0.049141	0.4804	ENSG00000144579
0.049126	0.48041	ENSG00000011295
-0.049089	0.51958	ENSG00000126549
0.048992	0.48046	ENSG00000115525
0.048939	0.48048	ENSG00000178573
-0.048878	0.51949	ENSG00000081803
0.048869	0.48051	ENSG00000040487
-0.048857	0.51948	ENSG00000108479
0.04865	0.4806	ENSG00000157191
-0.048607	0.51938	ENSG00000172123
-0.048604	0.51938	ENSG00000135077
-0.04859	0.51938	ENSG00000176753
0.048559	0.48064	ENSG00000145012
-0.04854	0.51936	ENSG00000183605
-0.048502	0.51934	ENSG00000196247
0.048373	0.48071	ENSG00000149091
0.048178	0.48079	ENSG00000137038
0.048122	0.48081	ENSG00000159147
-0.048085	0.51918	ENSG00000136448

0.047857	0.48092	ENSG00000214324
-0.047756	0.51904	ENSG00000049323
0.047756	0.48096	ENSG00000164211
-0.047653	0.519	ENSG00000174358
0.047646	0.481	ENSG00000124380
-0.047533	0.51896	ENSG00000204967
0.047503	0.48106	ENSG00000126231
-0.047366	0.51889	ENSG00000187672
-0.047366	0.51889	ENSG00000205439
-0.047309	0.51887	ENSG00000008197
-0.047284	0.51886	ENSG00000136169
0.047256	0.48115	ENSG00000166928
-0.047197	0.51882	ENSG00000187627
0.047169	0.48119	ENSG00000167635
0.047133	0.4812	ENSG00000131748
0.047131	0.4812	ENSG00000182931
0.047093	0.48122	ENSG00000165898
0.047055	0.48123	ENSG00000237388
0.047028	0.48125	ENSG00000103034
0.046929	0.48129	ENSG00000167106
-0.046874	0.51869	ENSG00000122515
-0.046677	0.51861	ENSG00000205246
0.04664	0.4814	ENSG00000163734
0.046556	0.48143	ENSG00000204969
-0.046545	0.51856	ENSG00000143363
-0.04629	0.51846	ENSG00000243489
-0.046271	0.51845	ENSG00000136521
-0.046238	0.51844	ENSG00000259288
-0.046194	0.51842	ENSG00000131747
-0.046161	0.51841	ENSG00000087903
0.046157	0.48159	ENSG00000183682
0.046074	0.48163	ENSG00000174429
-0.045996	0.51834	ENSG00000112539
-0.045979	0.51834	ENSG00000182022
-0.045939	0.51832	ENSG00000267706
0.045931	0.48168	ENSG00000112640
-0.045909	0.51831	ENSG00000204424
0.045874	0.48171	ENSG00000180233
-0.045784	0.51826	ENSG00000120913
0.045583	0.48182	ENSG00000177551
0.045567	0.48183	ENSG00000169756
0.045476	0.48186	ENSG00000115457
0.045435	0.48188	ENSG00000102780
-0.045428	0.51812	ENSG00000124074
-0.045276	0.51806	ENSG00000151914
0.045271	0.48195	ENSG00000108557
-0.044921	0.51791	ENSG00000012048
0.044865	0.48211	ENSG00000133020
-0.044836	0.51788	ENSG00000197249
-0.044833	0.51788	ENSG00000196872
-0.044813	0.51787	ENSG00000167332

-0.044808	0.51787	ENSG00000139899
0.044808	0.48213	ENSG00000107937
0.044763	0.48215	ENSG00000115350
-0.044648	0.51781	ENSG00000013810
-0.044432	0.51772	ENSG00000143322
-0.044357	0.51769	ENSG00000131669
0.044324	0.48232	ENSG00000204682
-0.044258	0.51765	ENSG00000137076
0.044217	0.48237	ENSG00000151632
0.044208	0.48237	ENSG00000108823
-0.044147	0.51761	ENSG00000019505
0.044047	0.48243	ENSG00000104859
0.043988	0.48246	ENSG00000174132
-0.043979	0.51754	ENSG00000105467
-0.043963	0.51753	ENSG00000164187
-0.043914	0.51751	ENSG00000214360
-0.04391	0.51751	ENSG00000248405
0.043845	0.48251	ENSG00000159208
0.043831	0.48252	ENSG00000119787
-0.043759	0.51745	ENSG00000075618
-0.043758	0.51745	ENSG00000166033
0.043635	0.4826	ENSG00000103253
0.043563	0.48263	ENSG00000160185
0.043463	0.48267	ENSG00000183655
-0.043342	0.51729	ENSG00000205111
0.043313	0.48273	ENSG00000004897
0.043292	0.48273	ENSG00000177599
-0.043287	0.51726	ENSG00000164485
0.043202	0.48277	ENSG00000012660
0.043116	0.4828	ENSG00000254614
0.043016	0.48284	ENSG00000158286
0.042933	0.48288	ENSG00000075239
0.042925	0.48288	ENSG00000165120
0.042924	0.48288	ENSG00000150630
0.042717	0.48296	ENSG00000212670
-0.042688	0.51703	ENSG00000115353
0.042682	0.48298	ENSG00000140350
0.042618	0.483	ENSG00000144063
0.042532	0.48304	ENSG00000125414
-0.042501	0.51695	ENSG00000133065
0.042198	0.48317	ENSG00000204767
0.042151	0.48319	ENSG00000273154
0.042111	0.48321	ENSG00000102543
-0.042073	0.51678	ENSG00000112679
0.042064	0.48322	ENSG00000176946
-0.042041	0.51677	ENSG00000267942
-0.042023	0.51676	ENSG00000135932
0.042013	0.48324	ENSG00000185215
0.041947	0.48327	ENSG00000157782
-0.041945	0.51673	ENSG00000171970
-0.041877	0.5167	ENSG00000167969

0.041793	0.48333	ENSG00000163938
-0.041784	0.51666	ENSG00000080200
0.041555	0.48343	ENSG00000163216
-0.041521	0.51656	ENSG00000178172
0.041505	0.48345	ENSG00000197532
-0.0415	0.51655	ENSG00000108679
-0.041229	0.51644	ENSG00000160049
-0.041168	0.51642	ENSG00000004766
-0.041134	0.51641	ENSG00000186118
0.041124	0.4836	ENSG00000065802
0.041105	0.48361	ENSG00000170231
-0.04101	0.51636	ENSG00000106477
-0.040905	0.51631	ENSG00000039139
0.040759	0.48374	ENSG00000110442
0.040714	0.48376	ENSG00000143390
0.040713	0.48376	ENSG00000148297
-0.040688	0.51623	ENSG00000136689
-0.040602	0.51619	ENSG00000171621
0.040509	0.48384	ENSG00000100314
0.040462	0.48386	ENSG00000132952
0.040379	0.4839	ENSG00000171316
-0.040328	0.51608	ENSG00000268964
-0.04022	0.51604	ENSG00000214941
0.04022	0.48396	ENSG00000103194
0.040184	0.48397	ENSG00000075240
0.040113	0.484	ENSG00000177830
0.039959	0.48406	ENSG00000143303
-0.039914	0.51592	ENSG00000075891
-0.039848	0.51589	ENSG00000144407
-0.039749	0.51585	ENSG00000126500
0.039638	0.48419	ENSG00000090539
0.039477	0.48426	ENSG00000158615
0.039272	0.48434	ENSG00000163694
0.039203	0.48436	ENSG00000124782
0.039199	0.48437	ENSG00000186063
0.039192	0.48437	ENSG00000011028
-0.039158	0.51562	ENSG00000180902
-0.039075	0.51558	ENSG00000125124
0.038938	0.48447	ENSG00000160803
-0.038933	0.51553	ENSG00000136492
0.038863	0.4845	ENSG00000268702
0.038749	0.48455	ENSG00000169871
-0.038607	0.5154	ENSG00000124787
0.038607	0.4846	ENSG00000173273
0.038598	0.48461	ENSG00000197746
0.03859	0.48461	ENSG00000154065
-0.038536	0.51537	ENSG00000130734
-0.038472	0.51534	ENSG00000250479
-0.038377	0.51531	ENSG00000153563
0.038367	0.4847	ENSG00000162894
0.038355	0.4847	ENSG00000178522

-0.038193	0.51523	ENSG00000197826
-0.038059	0.51518	ENSG00000186815
0.038004	0.48484	ENSG00000267857
0.037968	0.48486	ENSG00000158022
-0.037915	0.51512	ENSG00000043143
0.03782	0.48492	ENSG00000129295
-0.037586	0.51499	ENSG00000167193
-0.037285	0.51487	ENSG00000104081
0.037044	0.48522	ENSG00000148824
-0.037025	0.51477	ENSG00000213462
0.036993	0.48525	ENSG00000128944
-0.036931	0.51473	ENSG00000179954
0.036901	0.48528	ENSG00000162739
0.036876	0.48529	ENSG00000101040
0.036819	0.48531	ENSG00000149201
-0.036755	0.51466	ENSG00000140678
-0.036697	0.51464	ENSG00000130517
0.036574	0.48541	ENSG00000155893
-0.036482	0.51455	ENSG00000213995
-0.036336	0.51449	ENSG00000153898
0.036312	0.48552	ENSG00000206384
0.036279	0.48553	ENSG00000124222
-0.036223	0.51445	ENSG00000212734
0.036173	0.48557	ENSG00000175662
-0.036167	0.51443	ENSG00000116761
-0.036079	0.51439	ENSG00000124233
0.036046	0.48562	ENSG00000172345
-0.035989	0.51435	ENSG00000171763
-0.035954	0.51434	ENSG00000255833
0.035925	0.48567	ENSG00000115415
-0.035885	0.51431	ENSG00000118418
0.035881	0.48569	ENSG00000074755
-0.03579	0.51428	ENSG00000117419
-0.035638	0.51421	ENSG00000188033
0.035604	0.4858	ENSG00000196917
0.035569	0.48581	ENSG00000021488
-0.035556	0.51418	ENSG00000116254
-0.035332	0.51409	ENSG00000141979
-0.035248	0.51406	ENSG00000221963
0.0352	0.48596	ENSG00000064651
0.035084	0.48601	ENSG00000134698
0.035073	0.48601	ENSG00000144476
0.035042	0.48602	ENSG00000101004
0.035012	0.48604	ENSG00000114790
0.034979	0.48605	ENSG00000086589
0.034937	0.48606	ENSG00000166734
0.034766	0.48613	ENSG00000067113
-0.034546	0.51378	ENSG00000092820
0.034465	0.48625	ENSG00000135972
-0.034409	0.51372	ENSG00000116774
0.03431	0.48631	ENSG00000221852

-0.034275	0.51367	ENSG00000163684
0.034251	0.48634	ENSG00000120279
-0.034098	0.5136	ENSG00000108590
0.033943	0.48646	ENSG00000140386
0.033908	0.48648	ENSG00000105127
0.033888	0.48648	ENSG00000165092
-0.033867	0.51351	ENSG00000013523
0.033739	0.48654	ENSG00000187091
-0.033574	0.51339	ENSG00000107968
-0.033485	0.51336	ENSG00000149573
0.033463	0.48665	ENSG00000176194
-0.033337	0.5133	ENSG00000075415
-0.033285	0.51328	ENSG00000158435
-0.033265	0.51327	ENSG00000140943
-0.033205	0.51324	ENSG00000186625
0.033119	0.48679	ENSG00000197410
0.033115	0.48679	ENSG00000227051
-0.033083	0.5132	ENSG00000198598
-0.033019	0.51317	ENSG00000171102
-0.032946	0.51314	ENSG00000185432
-0.032895	0.51312	ENSG00000134262
-0.032722	0.51305	ENSG00000064313
0.032688	0.48696	ENSG00000111271
0.032589	0.487	ENSG00000105643
0.032547	0.48702	ENSG00000186119
-0.032534	0.51298	ENSG00000145555
0.03247	0.48705	ENSG00000108622
0.032425	0.48707	ENSG00000163930
-0.032398	0.51292	ENSG00000198342
-0.032378	0.51291	ENSG00000185899
0.032365	0.48709	ENSG00000160271
0.032344	0.4871	ENSG00000159618
0.032327	0.48711	ENSG00000175348
-0.032276	0.51287	ENSG00000164713
-0.032271	0.51287	ENSG00000100604
0.03225	0.48714	ENSG00000255408
0.03209	0.4872	ENSG00000176900
0.03207	0.48721	ENSG00000173915
0.031987	0.48724	ENSG00000058673
0.031921	0.48727	ENSG00000182325
0.031742	0.48734	ENSG00000219607
0.031735	0.48734	ENSG00000108091
-0.031725	0.51265	ENSG00000104870
-0.031616	0.51261	ENSG00000186038
0.031602	0.48739	ENSG00000242950
-0.031589	0.5126	ENSG00000188155
0.031379	0.48748	ENSG00000175581
0.031279	0.48752	ENSG00000169035
-0.031224	0.51245	ENSG00000060566
0.031106	0.48759	ENSG00000161217
-0.030922	0.51233	ENSG00000189319

0.030884	0.48768	ENSG00000226887
0.030844	0.4877	ENSG00000125827
-0.030843	0.5123	ENSG00000129083
0.030834	0.4877	ENSG00000131503
0.030834	0.4877	ENSG00000254996
-0.030789	0.51228	ENSG00000119729
0.030778	0.48772	ENSG00000258365
-0.030763	0.51227	ENSG00000100101
0.030751	0.48773	ENSG00000125650
0.0307	0.48775	ENSG00000105953
-0.030613	0.51221	ENSG00000232560
-0.03021	0.51205	ENSG00000100106
0.030191	0.48796	ENSG00000221880
0.030182	0.48796	ENSG00000151834
0.030101	0.48799	ENSG00000159388
0.030086	0.488	ENSG00000132681
-0.02996	0.51195	ENSG00000184719
-0.029946	0.51194	ENSG00000073792
0.029941	0.48806	ENSG00000171885
-0.029818	0.51189	ENSG00000184857
-0.029779	0.51188	ENSG00000163738
-0.029769	0.51187	ENSG00000198015
0.029705	0.48815	ENSG00000167258
-0.029682	0.51184	ENSG00000111245
0.029651	0.48817	ENSG00000110697
0.029639	0.48818	ENSG00000101440
-0.029491	0.51176	ENSG00000075413
0.029464	0.48825	ENSG00000170835
0.029449	0.48825	ENSG00000092098
-0.029305	0.51169	ENSG00000213512
-0.0293	0.51169	ENSG00000167261
0.029269	0.48833	ENSG00000089157
0.029186	0.48836	ENSG00000132259
0.029181	0.48836	ENSG00000155660
-0.029134	0.51162	ENSG00000254349
0.029105	0.48839	ENSG00000265681
0.029001	0.48843	ENSG00000134108
-0.028918	0.51154	ENSG00000157184
-0.028903	0.51153	ENSG00000184305
0.028848	0.48849	ENSG00000174891
-0.028834	0.5115	ENSG00000177034
0.028622	0.48858	ENSG00000101000
0.028467	0.48864	ENSG00000189114
-0.02846	0.51135	ENSG00000183207
0.028424	0.48866	ENSG00000108599
0.028423	0.48866	ENSG00000174013
0.028255	0.48873	ENSG00000116691
-0.028134	0.51122	ENSG00000120948
0.027724	0.48894	ENSG00000169994
0.027696	0.48895	ENSG00000082929
0.027643	0.48897	ENSG00000203995

0.027636	0.48898	ENSG00000164916
0.027623	0.48898	ENSG00000137074
0.027552	0.48901	ENSG00000180758
0.027438	0.48906	ENSG00000244476
-0.027435	0.51094	ENSG00000167720
0.02732	0.4891	ENSG00000109794
-0.027277	0.51088	ENSG00000250091
-0.02727	0.51088	ENSG00000081800
0.027125	0.48918	ENSG00000166086
-0.027109	0.51081	ENSG00000166908
-0.027102	0.51081	ENSG00000091317
0.027034	0.48922	ENSG00000144401
-0.026979	0.51076	ENSG00000171130
-0.026877	0.51072	ENSG00000108262
0.026841	0.48929	ENSG00000139116
-0.026701	0.51065	ENSG00000107984
0.026691	0.48935	ENSG00000197457
0.026661	0.48937	ENSG00000184254
0.026488	0.48943	ENSG00000198327
-0.026386	0.51053	ENSG00000106263
0.026367	0.48948	ENSG00000151474
-0.026283	0.51048	ENSG00000111321
0.026211	0.48954	ENSG00000169418
-0.026191	0.51045	ENSG00000136159
0.02614	0.48957	ENSG00000105607
0.026018	0.48962	ENSG00000153086
-0.025875	0.51032	ENSG00000166002
-0.025719	0.51026	ENSG00000087088
-0.025697	0.51025	ENSG00000116251
0.025683	0.48976	ENSG00000184378
0.025633	0.48977	ENSG00000100027
0.025628	0.48978	ENSG00000180730
-0.025598	0.51021	ENSG00000188659
0.025476	0.48984	ENSG00000165457
0.025398	0.48987	ENSG00000203795
-0.025348	0.51011	ENSG00000166575
0.025096	0.48999	ENSG00000182606
0.025039	0.49001	ENSG00000146373
0.025016	0.49002	ENSG00000126860
0.025003	0.49003	ENSG00000107021
-0.024919	0.50994	ENSG00000162409
0.024839	0.49009	ENSG00000136810
-0.02476	0.50988	ENSG00000157927
-0.024705	0.50985	ENSG00000186020
-0.024701	0.50985	ENSG00000006534
-0.024688	0.50985	ENSG00000198382
-0.024682	0.50985	ENSG00000162415
-0.024655	0.50983	ENSG00000183798
0.024637	0.49017	ENSG00000269948
0.024597	0.49019	ENSG00000138459
0.024567	0.4902	ENSG00000205899

-0.024518	0.50978	ENSG00000048405
0.024503	0.49023	ENSG00000147604
-0.024478	0.50976	ENSG00000169413
0.024426	0.49026	ENSG00000179388
-0.024397	0.50973	ENSG00000179869
0.024355	0.49028	ENSG00000170848
0.02433	0.49029	ENSG00000197497
0.024329	0.4903	ENSG00000073614
-0.024303	0.50969	ENSG00000007129
-0.024301	0.50969	ENSG00000271723
-0.024295	0.50969	ENSG00000205445
0.024242	0.49033	ENSG00000248592
0.024223	0.49034	ENSG00000198951
-0.024039	0.50959	ENSG00000204306
-0.023945	0.50955	ENSG00000161011
-0.023915	0.50954	ENSG00000169026
0.023907	0.49046	ENSG00000175779
-0.023894	0.50953	ENSG00000183318
0.023843	0.49049	ENSG00000109956
-0.023783	0.50949	ENSG00000119715
0.023644	0.49057	ENSG00000116205
-0.023613	0.50942	ENSG00000100335
-0.023578	0.50941	ENSG00000176515
-0.023564	0.5094	ENSG00000222018
-0.023433	0.50935	ENSG00000156687
-0.023415	0.50934	ENSG00000172992
0.023308	0.4907	ENSG00000136153
-0.023287	0.50929	ENSG00000107165
-0.023282	0.50929	ENSG00000197721
0.023207	0.49074	ENSG00000162630
0.023182	0.49075	ENSG00000258790
0.023169	0.49076	ENSG00000108576
0.023103	0.49078	ENSG00000173221
0.022994	0.49083	ENSG00000204887
-0.022982	0.50917	ENSG00000178826
0.022862	0.49088	ENSG00000173868
0.022577	0.49099	ENSG00000144118
0.022538	0.49101	ENSG00000167380
-0.022513	0.50898	ENSG00000177125
-0.022475	0.50897	ENSG00000061936
0.022455	0.49104	ENSG00000270136
-0.022398	0.50893	ENSG00000160299
0.022363	0.49108	ENSG00000065989
0.022339	0.49109	ENSG00000091490
0.022203	0.49114	ENSG00000197273
0.02206	0.4912	ENSG00000130656
0.02198	0.49123	ENSG00000099995
0.02187	0.49128	ENSG00000051596
-0.021856	0.50872	ENSG00000163704
-0.02185	0.50872	ENSG00000137106
-0.021827	0.50871	ENSG00000078018

-0.021816	0.5087	ENSG00000139531
-0.021785	0.50869	ENSG00000008438
0.021622	0.49137	ENSG00000007314
0.021545	0.49141	ENSG00000269686
-0.021458	0.50856	ENSG00000138821
-0.02143	0.50855	ENSG00000105185
0.021379	0.49147	ENSG00000162104
-0.021298	0.5085	ENSG00000072310
-0.021286	0.50849	ENSG00000133063
-0.021211	0.50846	ENSG00000174807
-0.021211	0.50846	ENSG00000137843
0.021195	0.49155	ENSG00000163743
0.02116	0.49156	ENSG00000151093
-0.021139	0.50843	ENSG00000179361
0.021132	0.49157	ENSG00000204947
-0.021075	0.50841	ENSG00000131686
-0.021057	0.5084	ENSG00000188050
0.021048	0.4916	ENSG00000172461
0.02087	0.49167	ENSG00000181577
-0.020492	0.50817	ENSG00000239697
-0.020492	0.50817	ENSG00000248871
0.020462	0.49184	ENSG00000268146
-0.020403	0.50814	ENSG00000221996
0.020313	0.4919	ENSG00000142230
0.02026	0.49192	ENSG00000153485
0.02022	0.49193	ENSG00000197651
-0.020215	0.50806	ENSG00000160326
0.020191	0.49195	ENSG00000026950
0.020128	0.49197	ENSG00000125651
-0.019973	0.50797	ENSG00000133773
-0.019962	0.50796	ENSG00000101161
0.01977	0.49211	ENSG00000177700
-0.019759	0.50788	ENSG00000099860
0.019507	0.49222	ENSG00000111713
0.019441	0.49224	ENSG00000133110
-0.019392	0.50774	ENSG00000155265
0.019347	0.49228	ENSG00000129170
-0.01934	0.50772	ENSG00000105379
-0.01926	0.50768	ENSG00000115942
-0.019217	0.50767	ENSG00000054179
0.019204	0.49234	ENSG00000173153
0.019143	0.49236	ENSG00000205277
-0.019109	0.50762	ENSG00000176915
-0.019079	0.50761	ENSG00000171431
-0.019032	0.50759	ENSG00000061987
0.018974	0.49243	ENSG00000213892
-0.018801	0.5075	ENSG00000174684
-0.018694	0.50746	ENSG00000153044
0.018564	0.49259	ENSG00000182511
0.01855	0.4926	ENSG00000137078
0.018519	0.49261	ENSG00000235162

-0.018479	0.50737	ENSG00000180891
-0.018394	0.50734	ENSG00000124203
0.018061	0.4928	ENSG00000130584
-0.017992	0.50718	ENSG00000268790
-0.017973	0.50717	ENSG00000106028
0.017973	0.49283	ENSG00000205126
-0.017963	0.50717	ENSG00000127578
0.017957	0.49284	ENSG00000011485
-0.017814	0.50711	ENSG00000112031
-0.017765	0.50709	ENSG00000167601
-0.017741	0.50708	ENSG00000115128
0.017694	0.49294	ENSG00000109182
-0.017611	0.50703	ENSG00000168556
-0.017571	0.50701	ENSG00000221933
-0.017443	0.50696	ENSG00000178055
0.017418	0.49305	ENSG00000131378
-0.017408	0.50694	ENSG00000171236
-0.017349	0.50692	ENSG00000124588
-0.017302	0.5069	ENSG00000102572
0.017297	0.4931	ENSG00000162244
-0.017216	0.50687	ENSG00000161850
-0.017214	0.50687	ENSG00000172432
-0.017152	0.50684	ENSG00000133121
0.017149	0.49316	ENSG00000181982
-0.017079	0.50681	ENSG00000164010
0.017055	0.4932	ENSG00000242173
-0.016996	0.50678	ENSG00000155640
0.016921	0.49325	ENSG00000160191
0.016834	0.49328	ENSG00000123374
0.016807	0.4933	ENSG00000083845
0.01677	0.49331	ENSG00000114547
0.016745	0.49332	ENSG00000204850
0.016722	0.49333	ENSG00000132406
0.016662	0.49335	ENSG00000106624
0.016594	0.49338	ENSG00000176994
0.016583	0.49338	ENSG00000129159
0.016466	0.49343	ENSG00000105613
-0.01644	0.50656	ENSG00000100403
0.016344	0.49348	ENSG00000034693
0.01634	0.49348	ENSG00000164253
-0.016195	0.50646	ENSG00000100890
0.016086	0.49358	ENSG00000121769
-0.016025	0.50639	ENSG00000160207
0.015873	0.49367	ENSG00000144746
-0.015797	0.5063	ENSG00000197786
-0.015621	0.50623	ENSG00000089053
0.0156	0.49378	ENSG00000196391
-0.015491	0.50618	ENSG00000169733
0.015433	0.49384	ENSG00000133878
-0.015422	0.50615	ENSG00000138780
0.015389	0.49386	ENSG00000136802

-0.015332	0.50612	ENSG00000171566
-0.01522	0.50607	ENSG00000140379
0.014978	0.49402	ENSG00000249915
0.014972	0.49403	ENSG00000198815
0.01492	0.49405	ENSG00000116791
-0.014903	0.50595	ENSG00000116903
0.014833	0.49408	ENSG00000167014
0.014792	0.4941	ENSG00000144199
-0.014706	0.50587	ENSG00000143036
0.014649	0.49416	ENSG00000132793
0.014638	0.49416	ENSG00000156869
-0.014597	0.50582	ENSG00000149591
-0.014459	0.50577	ENSG00000103245
-0.014447	0.50576	ENSG00000165671
-0.014381	0.50574	ENSG00000077800
-0.01433	0.50572	ENSG00000144834
0.01432	0.49429	ENSG00000108786
-0.014306	0.50571	ENSG00000143674
0.014061	0.49439	ENSG00000143119
0.013957	0.49443	ENSG00000170054
-0.013923	0.50555	ENSG00000178386
-0.013882	0.50554	ENSG00000089693
-0.013718	0.50547	ENSG00000251493
0.013707	0.49453	ENSG00000102755
0.01352	0.49461	ENSG00000108270
0.013496	0.49462	ENSG00000132518
-0.0134	0.50535	ENSG00000119684
0.013375	0.49466	ENSG00000101310
0.013301	0.49469	ENSG00000100024
0.013297	0.4947	ENSG00000176853
-0.013263	0.50529	ENSG00000084754
-0.013169	0.50525	ENSG00000163217
0.013168	0.49475	ENSG00000057294
0.013162	0.49475	ENSG00000149403
-0.013124	0.50524	ENSG00000173612
-0.013004	0.50519	ENSG00000175485
-0.012943	0.50516	ENSG00000179918
-0.012848	0.50513	ENSG00000107929
0.012759	0.49491	ENSG00000164651
0.012645	0.49496	ENSG00000115750
-0.012594	0.50502	ENSG00000240403
0.012508	0.49501	ENSG00000135902
0.012489	0.49502	ENSG00000086159
0.01243	0.49504	ENSG00000162888
-0.012337	0.50492	ENSG00000156113
-0.01227	0.50489	ENSG00000257242
0.012189	0.49514	ENSG00000147689
-0.012163	0.50485	ENSG00000163431
0.012151	0.49515	ENSG00000167283
0.012122	0.49516	ENSG00000189007
-0.012099	0.50483	ENSG00000145391

-0.011962	0.50477	ENSG00000183688
0.011878	0.49526	ENSG00000124749
0.011816	0.49529	ENSG00000128284
0.011762	0.49531	ENSG00000204130
-0.011571	0.50462	ENSG00000257743
-0.011551	0.50461	ENSG00000157884
-0.011542	0.5046	ENSG00000223865
-0.011522	0.5046	ENSG00000128050
0.011484	0.49542	ENSG00000198719
0.01144	0.49544	ENSG00000168653
-0.011419	0.50456	ENSG00000164032
0.011339	0.49548	ENSG00000156515
0.011304	0.49549	ENSG00000139547
0.0111	0.49557	ENSG00000162069
0.01103	0.4956	ENSG00000180817
-0.010939	0.50436	ENSG00000141720
0.0109	0.49565	ENSG00000161326
0.010879	0.49566	ENSG00000220032
0.010853	0.49567	ENSG00000113088
-0.010839	0.50432	ENSG00000183020
0.010751	0.49571	ENSG00000171115
0.010725	0.49572	ENSG00000119946
0.010642	0.49575	ENSG00000110921
-0.010641	0.50425	ENSG00000181023
-0.010551	0.50421	ENSG00000134247
0.0105	0.49581	ENSG00000255046
0.010452	0.49583	ENSG00000196581
0.010334	0.49588	ENSG00000172830
-0.010173	0.50406	ENSG00000099814
-0.010136	0.50404	ENSG00000198454
-0.00993020	0.50396	ENSG00000115041
0.0098988	0.49605	ENSG00000163510
-0.00984920	0.50393	ENSG00000164362
0.0097211	0.49612	ENSG00000184465
-0.00967110	0.50386	ENSG00000111196
-0.009612	0.50383	ENSG00000161849
0.0096055	0.49617	ENSG00000174500
0.0094491	0.49623	ENSG00000089916
0.0093232	0.49628	ENSG00000163359
-0.00915110	0.50365	ENSG00000135502
0.0091139	0.49636	ENSG00000077942
-0.00908010	0.50362	ENSG00000131876
-0.00898130	0.50358	ENSG00000130226
0.0089103	0.49645	ENSG00000027869
-0.00888580	0.50354	ENSG00000189042
-0.00880440	0.50351	ENSG00000108264
-0.00857320	0.50342	ENSG00000112419
-0.008565	0.50342	ENSG00000137628
-0.00849970	0.50339	ENSG00000100422
-0.00829460	0.50331	ENSG00000222033
0.0082645	0.4967	ENSG00000117676

0.0081668	0.49674	ENSG00000105392
0.0080876	0.49677	ENSG00000256029
-0.0080812	0.50322	ENSG00000218336
-0.0080688	0.50322	ENSG00000173267
-0.0080213	0.5032	ENSG00000178531
-0.0078691	0.50314	ENSG00000269415
0.0078344	0.49687	ENSG00000213066
0.0077892	0.49689	ENSG00000129480
0.0077845	0.49689	ENSG00000159713
-0.0075857	0.50303	ENSG00000146109
-0.0073358	0.50293	ENSG00000145495
-0.0072879	0.50291	ENSG00000013375
0.0072818	0.49709	ENSG00000203896
-0.0072693	0.5029	ENSG00000156282
0.0072487	0.49711	ENSG00000165527
0.0071892	0.49713	ENSG00000167526
-0.0071177	0.50284	ENSG00000140470
-0.0071072	0.50284	ENSG00000115364
-0.0069092	0.50276	ENSG00000161682
0.0068034	0.49729	ENSG00000183571
-0.0067548	0.50269	ENSG00000153303
-0.0067006	0.50267	ENSG00000071539
0.0066902	0.49733	ENSG00000104228
0.0066805	0.49733	ENSG00000125398
-0.0066673	0.50266	ENSG00000188647
-0.0065929	0.50263	ENSG00000021852
-0.0065849	0.50263	ENSG00000142606
-0.0063872	0.50255	ENSG00000253304
-0.006369	0.50254	ENSG00000164576
0.0062251	0.49752	ENSG00000173988
0.0060406	0.49759	ENSG00000205362
0.0059901	0.49761	ENSG00000078687
-0.0059563	0.50238	ENSG00000105072
0.0059427	0.49763	ENSG00000127084
-0.0058781	0.50234	ENSG00000198839
0.005862	0.49766	ENSG00000101152
0.0057421	0.49771	ENSG00000116741
-0.0056388	0.50225	ENSG00000113430
-0.0055911	0.50223	ENSG00000168016
0.0055146	0.4978	ENSG00000198390
-0.0054803	0.50219	ENSG00000189050
-0.0054495	0.50217	ENSG00000100764
0.005426	0.49784	ENSG00000211456
-0.0054194	0.50216	ENSG00000111666
0.0053777	0.49785	ENSG00000120725
0.0053615	0.49786	ENSG00000168672
-0.0053094	0.50212	ENSG00000128641
-0.0052381	0.50209	ENSG00000006042
0.0051489	0.49795	ENSG00000180917
-0.0051079	0.50204	ENSG00000099910
0.0050133	0.498	ENSG00000255994

0.0049059	0.49804	ENSG00000116141
0.0047999	0.49809	ENSG00000178397
-0.0047627	0.5019	ENSG00000204764
0.0046928	0.49813	ENSG00000135451
0.0046083	0.49816	ENSG00000006194
0.0043853	0.49825	ENSG00000268365
0.0043715	0.49826	ENSG00000151577
0.0043519	0.49826	ENSG00000156463
0.0039086	0.49844	ENSG00000113805
-0.0037592	0.5015	ENSG00000162542
-0.0037094	0.50148	ENSG00000196476
-0.0036673	0.50146	ENSG00000196313
-0.0035893	0.50143	ENSG00000105989
0.0034994	0.4986	ENSG00000258847
-0.0034613	0.50138	ENSG00000189334
0.0034353	0.49863	ENSG00000104221
-0.0033647	0.50134	ENSG00000164393
-0.0033591	0.50134	ENSG00000006075
0.0033064	0.49868	ENSG00000142156
0.0033032	0.49868	ENSG00000135925
0.0032081	0.49872	ENSG00000050165
-0.0031833	0.50127	ENSG00000188322
-0.0031012	0.50124	ENSG00000118946
0.002991	0.49881	ENSG00000153048
-0.002932	0.50117	ENSG00000137941
-0.0029283	0.50117	ENSG00000125834
-0.0027877	0.50111	ENSG00000154269
-0.002765	0.5011	ENSG00000152700
0.0026396	0.49895	ENSG00000178904
0.0026246	0.49895	ENSG00000140598
0.0025921	0.49897	ENSG00000177464
-0.0025864	0.50103	ENSG00000021461
-0.0025195	0.50101	ENSG00000160796
0.002332	0.49907	ENSG00000243232
0.0023082	0.49908	ENSG00000165637
0.0022383	0.49911	ENSG00000197403
-0.0021434	0.50086	ENSG00000142583
0.0021073	0.49916	ENSG00000154451
0.0020053	0.4992	ENSG00000160472
-0.0019272	0.50077	ENSG00000180806
0.0019243	0.49923	ENSG00000051128
0.0018875	0.49925	ENSG00000172680
-0.0017844	0.50071	ENSG00000070729
0.0017302	0.49931	ENSG00000255713
-0.0014678	0.50059	ENSG00000008196
-0.0014547	0.50058	ENSG00000126464
0.0013348	0.49947	ENSG00000159166
-0.0013129	0.50052	ENSG00000138794
0.0013072	0.49948	ENSG00000164822
-0.001239	0.50049	ENSG00000251537
-0.0010334	0.50041	ENSG00000163686

-0.000985C	0.50039	ENSG00000172889
-0.000851S	0.50034	ENSG00000101363
-0.000793C	0.50032	ENSG00000102452
0.0006411I	0.49974	ENSG00000146826
0.0005832I	0.49977	ENSG00000128602
0.0005432I	0.49978	ENSG00000144848
0.0004920I	0.4998	ENSG00000141736
-0.000347C	0.50014	ENSG00000119777
0.0002389I	0.4999	ENSG00000151532

defined at $P = 0.05/18671 = 2.678e-6$.

Supplementary Table 7. Gene-set association results for top 50 gene-sets

Note: MAGMA gene-set analysis was performed for curated gene sets and GO terms obtained from M

<i>NGENES</i>	<i>BETA</i>	<i>BETA_STD</i>	<i>SE</i>	<i>P</i>	<i>FULL_NAME</i>
9	0.96442	0.02117	0.24825	5.1377e-05	Curated_gene_sets: Activated NTF
13	0.80024	0.021109	0.21597	0.00010587	Curated_gene_sets:reactome_shc
14	0.78675	0.021536	0.21538	0.00013009	Curated_gene_sets:reactome_shc
7	1.169	0.022632	0.32061	0.00013347	GO_bp:go_regulation_of_metapha
178	0.20848	0.020259	0.059538	0.00023181	GO_bp:go_regulation_of_organell
5	1.149	0.018801	0.3384	0.0003434	GO_mf:go_lipopolysaccharide_rec
10	0.80029	0.018517	0.23602	0.00034932	GO_bp:go_regulation_of_protein_
838	0.099797	0.020663	0.029527	0.00036351	GO_bp:go_innate_immune_respo
9	0.94291	0.020697	0.28016	0.00038274	GO_bp:go_regulation_of_anion_cl
7	1.0563	0.020449	0.32201	0.00051958	GO_bp:go_l_arginine_transport
21	0.50585	0.016956	0.15451	0.0005313	GO_bp:go_mrna_modification
14	0.61589	0.016859	0.18875	0.0005525	GO_bp:go_mrna_methylation
15	0.62251	0.017638	0.19096	0.00055829	GO_mf:go_phosphatidylinositol_p
7	0.69811	0.013515	0.21418	0.00055921	GO_mf:go_nedd8_specific_protea
12	0.7414	0.01879	0.22834	0.0005846	Curated_gene_sets:reactome_glul
9	0.75742	0.016626	0.23346	0.00058994	GO_bp:go_protein_k11_linked_de
20	0.62079	0.020307	0.19399	0.00068823	Curated_gene_sets:buckanovich_t
24	0.49699	0.017807	0.15703	0.00077693	GO_bp:go_nucleus_localization
8	1.0511	0.021753	0.33246	0.00078626	GO_mf:go_dead_h_box_rna_helic
31	0.51712	0.021054	0.1636	0.00078801	GO_bp:go_spinal_cord_motor_ne
15	0.60527	0.017149	0.19181	0.00080237	Curated_gene_sets:sa_g1_and_s_
14	0.74827	0.020483	0.23722	0.00080563	GO_bp:go_parturition
13	0.68932	0.018183	0.22084	0.00090183	GO_bp:go_glycolipid_catabolic_pr
8	0.74484	0.015415	0.23956	0.00093973	GO_cc:go_mrna_editing_complex
21	0.5528	0.018529	0.17838	0.00097239	Curated_gene_sets:collis_prkdc_s
6	1.0224	0.018325	0.33231	0.0010485	GO_bp:go_positive_regulation_of.
80	0.27421	0.017911	0.089428	0.0010854	Curated_gene_sets:reactome_pi_l
6	0.91016	0.016314	0.29793	0.0011272	GO_bp:go_negative_regulation_of
70	0.2745	0.016777	0.090529	0.0012157	GO_mf:go_mrna_3_utr_binding
64	0.29077	0.016995	0.096501	0.0012947	Curated_gene_sets:mikkelsen_me
218	0.16547	0.017776	0.055045	0.0013249	Curated_gene_sets:martoriati_mc
66	0.27484	0.016312	0.091889	0.0013923	Curated_gene_sets:amit_egf_resp
6	1.1282	0.020222	0.38043	0.0015122	GO_bp:go_arginine_transmembra
16	0.63955	0.018714	0.2162	0.0015498	Curated_gene_sets:reactome_grb
1494	0.066928	0.018159	0.022627	0.0015511	GO_bp:go_defense_response
11	0.68292	0.016572	0.23301	0.0016922	Curated_gene_sets:chuang_oxidat
51	0.32107	0.016758	0.10963	0.0017039	GO_bp:go_regulation_of_cilium_a
46	0.34631	0.017168	0.11843	0.0017287	Curated_gene_sets:reactome_bas
27	0.47987	0.018235	0.1645	0.0017692	Curated_gene_sets:pid_integrin2_
9	0.90658	0.0199	0.31183	0.0018252	GO_bp:go_l_ascorbic_acid_metab
15	0.60907	0.017257	0.20962	0.0018354	GO_bp:go_3_utr_mediated_mrna
73	0.26507	0.016543	0.091872	0.001958	Curated_gene_sets:bosco_interfei
8	0.77977	0.016138	0.27073	0.001989	GO_bp:go_regulation_of_arachidc
19	0.60687	0.01935	0.21081	0.0019985	Curated_gene_sets:reactome_reg
19	0.57283	0.018264	0.19918	0.002017	GO_cc:go_connexin_complex
56	0.33687	0.018422	0.11737	0.0020547	Curated_gene_sets:amit_serum_r
12	0.76962	0.019505	0.26872	0.0020943	GO_bp:go_negative_regulation_of

5	0.89338	0.014618	0.31389	0.0022149	Curated_gene_sets:reactome_ngf
20	0.48065	0.015723	0.16951	0.0022906	GO_bp:go_nuclear_migration
18	0.50914	0.015801	0.17995	0.0023353	GO_bp:go_nonribosomal_peptide

tsigDB (<http://software.broadinstitute.org/gsea/msigdb/index.jsp>) and tested using a linear test of associ

ation between the gene-based P values and gene-sets in FUMA. Bonferroni threshold of significance for

10678 gene-sets was defined at $P = 0.05/10678 = 4.683e-6$.

Supplementary Table 8. Gene-set association results for tissue-specific gene expression

<i>VARIABLE</i>	<i>NGENES</i>	<i>BETA</i>	<i>SE</i>	<i>P</i>
Brain_Hypothalamus	17101	0.02077	0.0078046	0.0038968
Brain_Spinal_cord_cervical_c-1	17101	0.016765	0.0082801	0.021455
Brain_Substantia_nigra	17101	0.016083	0.0082562	0.025719
Brain_Cerebellar_Hemisphere	17101	0.011258	0.0058584	0.027327
Brain_Frontal_Cortex_BA9	17101	0.011989	0.0066021	0.034695
Brain_Anterior_cingulate_cortex_BA24	17101	0.011419	0.0069434	0.050044
Brain_Cerebellum	17101	0.0098283	0.0060402	0.051863
Brain_Cortex	17101	0.01102	0.0068504	0.053862
Brain_Nucleus_accumbens_basal_gangli	17101	0.011389	0.007312	0.059682
Brain_Hippocampus	17101	0.010727	0.0076628	0.080782
Brain_Putamen_basal_ganglia	17101	0.010606	0.0076157	0.081868
Brain_Caudate_basal_ganglia	17101	0.010068	0.0075642	0.091595
Brain_Amygdala	17101	0.0097355	0.0075394	0.098312
Ovary	17101	0.008625	0.0093431	0.17797
Whole_Blood	17101	0.0049162	0.005386	0.18069
Pituitary	17101	0.0049009	0.0085803	0.28395
Cells_EBV-transformed_lymphocytes	17101	0.0020181	0.004685	0.33332
Cells_Cultured_fibroblasts	17101	0.0011	0.0063168	0.43088
Muscle_Skeletal	17101	3.4552e-05	0.0066634	0.49793
Nerve_Tibial	17101	-5.5283e-0	0.0096236	0.50229
Uterus	17101	-0.0015707	0.010461	0.55968
Kidney_Cortex	17101	-0.0024691	0.0086544	0.61229
Kidney_Medulla	17101	-0.002628	0.0088743	0.61644
Fallopian_Tube	17101	-0.0050135	0.011341	0.67078
Skin_Not_Sun_Exposed_Suprapubic	17101	-0.0032843	0.0073785	0.67188
Cervix_Ectocervix	17101	-0.0052851	0.011652	0.67493
Heart_Left_Ventricle	17101	-0.0042781	0.0087583	0.68738
Minor_Salivary_Gland	17101	-0.0047592	0.0092181	0.69717
Pancreas	17101	-0.0046986	0.0080754	0.71966
Colon_Sigmoid	17101	-0.007051	0.012084	0.72022
Esophagus_Muscularis	17101	-0.0072752	0.011963	0.72844
Testis	17101	-0.0034477	0.0053694	0.73959
Esophagus_Mucosa	17101	-0.0048374	0.0073173	0.74572
Skin_Sun_Exposed_Lower_leg	17101	-0.004957	0.0073955	0.74865
Heart_Atrial_Appendage	17101	-0.0077505	0.0091301	0.80202
Esophagus_Gastroesophageal_Junction	17101	-0.011003	0.012339	0.81372
Cervix_Endocervix	17101	-0.0099245	0.011113	0.81407
Vagina	17101	-0.010592	0.010581	0.84159
Adrenal_Gland	17101	-0.010141	0.0097821	0.85006
Artery_Aorta	17101	-0.010594	0.0098022	0.86008
Liver	17101	-0.0071818	0.0061435	0.87879
Spleen	17101	-0.0083357	0.0070692	0.88082
Small_Intestine_Terminal_Ileum	17101	-0.011042	0.0092686	0.88324
Artery_Coronary	17101	-0.013818	0.011331	0.88866
Artery_Tibial	17101	-0.012915	0.0095762	0.91127
Colon_Transverse	17101	-0.01564	0.011106	0.92046
Thyroid	17101	-0.013324	0.0092764	0.92453
Prostate	17101	-0.017345	0.011456	0.93498

Bladder	17101	-0.02266	0.012672	0.96312
Lung	17101	-0.0158	0.0087997	0.96371
Stomach	17101	-0.021631	0.011538	0.96958
Adipose_Visceral_Omentum	17101	-0.020372	0.010663	0.97196
Breast_Mammary_Tissue	17101	-0.023505	0.012133	0.97364
Adipose_Subcutaneous	17101	-0.020564	0.010337	0.97666

ssion

Supplementary Table 9. Polygenic scores derived from GWAS meta-analysis resu

<i>Threshold</i>	<i>Beta</i>	<i>SE</i>	<i>P-value</i>	<i>delta_r2</i>
0.5	0.14	0.04	0.000712	0.012
0.4	0.14	0.04	0.000655	0.012
0.3	0.14	0.04	0.000702	0.012
0.2	0.12	0.04	0.003593	0.009
0.1	0.14	0.04	0.000329	0.014
0.05	0.16	0.04	0.000084	0.016
0.01	0.18	0.04	0.000011	0.020
0.001	0.16	0.04	0.000056	0.017
0.0001	0.05	0.04	0.217697	0.002
0.000001	0.01	0.04	0.757271	0.000

Its predicting childhood ASB in the Dunedin Longitudinal Cohort

Supplementary Table 10. Polygenic scores derived from GWAS meta-analy

<i>Threshold</i>	<i>Beta</i>	<i>SE</i>	<i>P-value</i>	<i>delta_r2</i>
0.5	8.28	1.19	<i>4.07E-12</i>	0.036
0.4	8.40	1.19	<i>1.87E-12</i>	0.037
0.3	8.44	1.18	<i>8.94E-13</i>	0.036
0.2	8.23	1.20	<i>7.39E-12</i>	0.033
0.1	7.84	1.19	<i>3.86E-11</i>	0.030
0.05	7.65	1.17	<i>7.37E-11</i>	0.030
0.01	5.77	1.20	<i>1.57E-06</i>	0.019
0.001	4.27	1.34	<i>0.001461171</i>	0.010
0.0001	1.52	1.39	<i>0.273990349</i>	0.001
0.000001	1.01	1.12	<i>0.365617514</i>	0.001

ysis results predicting externalizing behavior in the E-risk Cohort

Supplementary Table 11. Polygenic scores derived from GWAS meta-analysis results

<i>Threshold</i>	<i>Beta</i>	<i>SE</i>	<i>Z</i>	<i>P-value</i>	<i>delta_r2</i>
1	119.331771	140.058947	2.978904	313 0.002892811	0.005939264
0.5	92.551515	631.085420	2.977328	729 0.002907721	0.00583757
0.4	84.411412	827.660189	3.051729	431 0.002275271	0.005973199
0.3	73.857069	923.829880	3.099347	059 0.001939477	0.006531494
0.2	63.672470	319.175940	3.320435	37 0.000898772	0.00717132
0.1	52.820857	613.454944	3.925758	179 8.65E-05	0.010193532
0.05	33.272471	39.940352	3.347212	254 0.000816287	0.008767016
0.001	4.692124	791.589416	2.952106	152 0.003156144	0.006944158
0.0001	-1.143563	60.493071	8.231926	3468 0.020380755	0.004037579
0.000001	-0.044809	80.047284	6.947661	867 0.34330162	-0.000180571

Its predicting Conduct Disorder in the Philadelphia Neurodevelopmental Cohort

ort (PNC)

Supplementary Table 12. Polygenic scores derived from GWAS meta-analysis

<i>Threshold</i>	<i>Beta</i>	<i>SE</i>	<i>Z</i>	<i>P-value</i>	<i>delta_r2</i>
1	89.168028	26.898352	3.3149996	0.000916	0.004036
0.5	69.301987	20.769486	3.3367212	0.000848	0.004085
0.4	63.121664	18.522847	3.4077733	0.000655	0.004239
0.3	54.416704	16.088346	3.3823678	0.000719	0.004197
0.2	44.706799	13.051346	3.4254548	0.000614	0.004299
0.1	30.183823	9.2796585	3.2526868	0.001143	0.003977
0.05	20.930560	6.6951401	3.1262319	0.001771	0.003706
0.001	3.1691332	1.0352513	3.0612211	0.002204	0.003417
0.0001	0.9019652	0.3415942	2.6404583	0.008279	0.002519
0.000001	0.0148172	0.0317417	0.4668052	0.640639	5.39E-05

lysis results predicting Oppositional Defiant Disorder in the Philadelphia Neu

developmental Cohort (PNC)

Supplementary Table 13. Quebec longitudinal study of children's development

<i>Threshold</i>	<i>BETA</i>	<i>SE</i>	<i>T_value</i>	<i>P</i>	<i>delta_R2</i>	<i>delta_adjR2</i>
0.5	32.669219	37.864271	0.8627980	0.388604	0.00125464	-0.000439
0.4	27.448292	33.987453	0.8076007	0.41965	0.00109942	-0.000597
0.3	25.176749	29.679482	0.8482880	0.396626	0.00121285	-0.000482
0.2	12.027447	24.311860	0.4947152	0.620988	0.00041284	-0.001298
0.1	-4.6295617	17.200059	-0.2691596	0.787902	0.00012224	-0.001595
0.05	-0.7718291	12.230252	-0.0631081	0.949702	6.72E+07	-0.001713
0.01	6.6659045	5.5005940	1.2118517	0.226061	0.00247207	0.000804
0.001	0.4401739	1.8495217	0.2379933	0.81197	9.56E+09	-0.001622
0.0001	-0.3038399	0.6101480	-0.4979773	0.618688	0.0004183	-0.001292
0.000001	0.0458436	0.0623276	0.7355267	0.462315	0.00091212	-0.000788

(QLSCD)

Supplementary Table 14. Quebec newborn twin study (QNTS), factor score

<i>Threshold</i>	<i>BETA</i>	<i>SE</i>	<i>Zscore</i>	<i>P</i>	<i>delta_R2</i>	<i>delta_adjR2</i>
0.5	37.0190609	11.7706753	3.14502439	0.001882	0.038801	0.03655313
0.4	34.1361771	10.4830227	3.25632957	0.0013	0.041471	0.039364453
0.3	27.4915303	9.11977533	3.01449644	0.002865	0.035768	0.03336054
0.2	21.4236401	7.70545474	2.78032132	0.005884	0.030601	0.027922577
0.1	14.4236473	5.68173911	2.53859728	0.011797	0.025652	0.022712225
0.05	10.8064918	4.21576038	2.56335533	0.01101	0.02614	0.023226645
0.01	3.64414333	1.97729363	1.84299553	0.066628	0.013698	0.0101295
0.001	1.15000253	0.71500229	1.60839003	0.109134	0.010469	0.006730751
0.0001	0.49413441	0.24476261	2.01883121	0.044676	0.016388	0.012961493
0.000001	0.05270826	0.02405396	2.19125091	0.029446	0.019247	0.015970623

Supplementary Table 15. Genetic correlations (rg) between broad ASB and 68 tra

Note: Correlations were calculated using LD score regression for summary statistics from the GWAS meta-ana

<i>Trait</i>	<i>PMID</i>	<i>SNP h²</i>	<i>rg</i>	<i>SE</i>
Agreeableness	21173776	0.028	-0.806	0.473
ADHD*	30478444	0.216	0.669	0.124
Depressive symptoms	27089181	0.0480	0.6312	0.0683
Age of first birth	27798627	0.0624	-0.5776	0.0644
Fathers age at death	27015805	0.038	-0.541	0.104
Ever vs never smoked	20418890	0.071	0.539	0.080
Years of schooling (proxy cognitive performance)	25201988	0.108	-0.487	0.064
Neuroticism 1	25993607	0.012	0.483	0.150
College completion	23722424	0.079	-0.476	0.071
Insomnia 1	28604731	0.047	0.472	0.090
Years of schooling 2	27225129	0.123	-0.466	0.052
Smoking Initiation	30617275	0.005	0.464	0.124
Years of schooling 1	23722424	0.085	-0.452	0.067
Cigarettes smoked per day	20418890	0.059	0.417	0.131
Intelligence	28530673	0.194	-0.404	0.066
Lung cancer	27488534	0.325	0.403	0.094
Former vs Current smoker	20418890	0.063	-0.397	0.106
Parents age at death	27015805	0.032	-0.391	0.133
Number of children ever born	27798627	0.026	0.379	0.080
Major depressive disorder	22472876	0.149	0.378	0.125
Neuroticism 2	27089181	0.086	0.376	0.062
Mothers age at death	27015805	0.037	-0.369	0.124
Squamous cell lung cancer	27488534	0.037	0.357	0.156
Childhood IQ	23358156	0.288	-0.349	0.115
Subjective well being	27089181	0.024	-0.345	0.079
Age of smoking initiation	20418890	0.060	-0.341	0.144
Extreme waist-to-hip ratio	23563607	0.370	0.335	0.113
Waist-to-hip ratio	25673412	0.117	0.316	0.051
Lung cancer (all)	24880342	0.138	0.305	0.096
Neuroticism 3	29942085	0.106	0.277	0.045
Insomnia 2	27992416	0.132	0.262	0.072
Conscientiousness	21173776	0.072	-0.255	0.165
Child birth weight	23202124	0.126	-0.232	0.095
PGC cross-disorder analysis	23453885	0.176	0.206	0.070
Body mass index	20935630	0.191	0.203	0.050
Waist circumference	25673412	0.124	0.198	0.047
Obesity class 2	23563607	0.183	0.196	0.063
Mean Thalamus	25607358	0.129	-0.192	0.154
Obesity class 3	23563607	0.128	0.189	0.090
Overweight	23563607	0.110	0.187	0.054
Childhood obesity	22484627	0.402	0.186	0.073
Obesity class 1	23563607	0.221	0.179	0.052
Neo-openness to experience	21173776	0.105	-0.197	0.147
Birth weight	27680694	0.102	-0.167	0.054
Age at Menopause	26414677	0.140	-0.154	0.068
Child birth length	25281659	0.178	-0.148	0.085
Own birth weight 1	31043758	0.099	-0.133	0.048

Extraversion	26362575	0.047	0.130	0.105
Own birth weight 2	31043758	0.031	-0.129	0.071
Own birth weight 3	31043758	0.094	-0.127	0.048
Sitting height ratio	25865494	0.226	-0.124	0.088
Anorexia Nervosa	24514567	0.489	-0.120	0.067
Excessive daytime sleepiness	27992416	0.053	0.112	0.077
Extreme bmi	23563607	0.700	0.112	0.072
Leptin_adjBMI	26833098	0.091	-0.111	0.112
ICV	25607358	0.199	-0.103	0.119
Offspring birth weight (maternal effect), adjusted for offsprin	31043758	0.104	-0.091	0.054
Infant head circumference	22504419	0.246	-0.091	0.098
Bipolar disorder	21926972	0.444	0.088	0.076
Leptin_not_adjBMI	26833098	0.096	0.071	0.111
Offspring birth weight 1	31043758	0.097	-0.068	0.054
Chronotype	27494321	0.100	-0.063	0.056
Sleep duration	27494321	0.056	-0.063	0.073
Offspring birth weight 2	31043758	0.030	-0.061	0.076
Mean Pallidum	25607358	0.152	-0.054	0.122
Mean Hippocampus	25607358	0.148	0.040	0.148
Hip circumference	25673412	0.128	0.039	0.049
Autism spectrum disorder	28540026	0.375	-0.010	0.090
Mean Caudate	25607358	0.261	0.010	0.100
Mean Putamen	25607358	0.299	-0.009	0.091
Height_2010	20881960	0.285	-0.007	0.046
Age at Menarche	25231870	0.211	-0.002	0.043
Extreme height	23563607	0.124	-0.001	0.066

*To prevent sample overlap with this study we excluded PGC/iPSYCH cohorts from the GWAS meta-analysis

its based on previously published GWAS results.

Analysis of broad ASB and publically available summary statistics from other large GWAS. Bonferroni thresho

Z	P
-1.703	0.0886
5.38	7.58E-08
9.24	2.45E-16
-8.97	2.93E-15
-5.22	1.73E-07
6.75	1.48E-11
-7.65	1.94E-14
3.22	0.0013
-6.76	1.45E-11
5.26	1.48E-07
-8.91	4.72E-15
3.76	0.0002
-6.80	1.09E-11
3.20	0.0014
-6.15	7.72E-10
4.29	1.79E-05
-3.75	0.0002
-2.93	0.0034
4.77	1.85E-06
3.03	0.0024
6.06	1.38E-09
-2.98	0.0029
2.29	0.0222
-3.03	0.0024
-4.37	1.22E-05
-2.36	0.0181
2.95	0.0031
6.20	5.59E-10
3.19	0.0014
6.100	1.06E-09
3.66	0.0003
-1.550	0.1217
-2.46	0.014
2.94	0.0033
4.03	5.61E-05
4.19	2.86E-05
3.08	0.002
-1.25	0.2117
2.09	0.037
3.50	0.0005
2.55	0.0106
3.45	0.0006
-1.34	0.1811
-3.06	0.0022
-2.27	0.0231
-1.75	0.0808
-2.78	0.0054

1.240 0.2154
-1.81 0.0696
-2.64 0.0084
-1.42 0.1556
-1.80 0.0716
1.47 0.1423
1.55 0.1211
-0.98 0.3257
-0.87 0.386
-1.70 0.0894
-0.92 0.3567
1.16 0.2451
0.64 0.5218
-1.25 0.2119
-1.13 0.258
-0.86 0.39
-0.80 0.4218
-0.44 0.6578
0.27 0.7874
0.79 0.4262
-0.11 0.9108
0.10 0.9192
-0.10 0.9192
-0.16 0.8726
-0.04 0.9656
-0.02 0.9875

of broad ASB

ld of significance for 73 tests = .0007.

Supplementary Table 16. Regions of long-range LD that were excluded prior t

<i>CHR</i>	<i>Start BP</i>	<i>End BP</i>
1	48227413	52227412
2	86146489	101133568
2	134783530	138283530
2	183291755	190291755
3	47524996	50024996
3	83417310	86917310
3	88917310	96017310
5	44464243	50464243
5	97972100	100472101
5	128972101	131972101
5	135472101	138472101
6	56892041	63942041
6	139958307	142458307
7	55032506	66362565
8	7962590	11962591
8	42880843	49837447
10	36959994	43679994
11	87860352	90860352
12	33108733	41713733
12	111015617	113515617
20	32536339	35066586

o Polygenic Risk Score analyses

Supplementary Table 17. Within-cohort quality control results, reporting the number

cohort	minN	maxN	totalsnps	maccut	rmMAF	rmINFO	rmHWE
ADH	5874	5874	27186611	0.00851208	17146158	0	0
ALSPAC	2659	2659	39117119	0.01880406	32298172	17760885	4563
BIG	399	1550	9496545	0.12531328	324803	186692	0
COGA	7274	7274	22774945	0.00687379	14457421	0	0
COLAUS	4071	4071	38888787	0.01228199	31471689	25795846	0
FINNTWIN	2554	2554	11278622	0.01957713	4427240	94179	13234
HBCS	1106	1107	14335635	0.04520799	7422139	2399548	302719
MCTFR	5943	5943	20039867	0.00841329	12136933	1875709	4633
PAGES	2480	2480	6183835	0.02016129	227287	32	72
QIMR BPA	5340	5340	8942004	0.00936329	987065	331757	0
QIMR SS2	381	381	8364377	0.13123359	4538635	303334	205971
QIMR T89	241	241	7784343	0.20746887	4967566	259383	190805
QIMR GA	1696	1696	74505468	0.02948113	45084139	44015571	2177321
QIMR NC	2705	2705	8964498	0.01848428	2013396	335368	238391
S4S	2187	2187	20036581	0.02286236	13467174	5185900	72776
TEDS (Affymetrix)	1328	1328	11653872	0.03765066	5715255	635761	347804
TRAILS	1,360	1,360	12206947	0.03676489	6225784	1079648	119

Number of poor performing SNPs that were filtered prior to the meta-analysis

rmMONO	rmACTG	rmDUP	rmAMBIG	rmREFMIS	rmREFMATCH	rmREFFRE
0	1310228	147679	355421	768086	145	169
0	0	28280	131544	16	47	0
0	0	39201	1097589	1659175	4668918	3002
0	0	0	139095	197583	569	0
0	0	0	128422	0	3	0
0	0	6543	132055	12730	53	0
0	604640	58	147766	494968	1650	140
0	0	9576	132523	12812	27	0
0	397109	48208	486370	166879	1833387	31
0	0	13123	133645	21095	276	0
0	0	16733	130836	3281	0	0
0	0	12279	130844	2619	0	0
0	0	12936517	130771	4946	0	0
0	0	28848	130818	4891	0	0
0	0	4179	269294	12461	788731	1
0	0	160	128850	1808	7	0
0	0	4265	296153	11809	912266	0

cleansnps

6138752
6591103
1528652
7980277
6661501
6674450
5390022
7681411
3024497
7786800
3600428
2618096
5885591
6488159
5071048
5495577
4677882