

**Table S1. : List of proteins included in the chip.**

N	Protein Name	Rv number	Description
1	CAE55240	Rv0096	Uncharacterized PPE family protein PPE1
2	CAE55258	Rv0256c	Uncharacterized PPE family protein PPE2
3	CAE55264	Rv0280	Uncharacterized PPE family protein PPE3
4	CAE55266	Rv0286	Uncharacterized PPE family protein PPE4
5	CAE55269	Rv0304c	PPE FAMILY PROTEIN
6	CAE55270	Rv0305c	PPE FAMILY PROTEIN
7	CAE55275	Rv0354c	PPE FAMILY PROTEIN
8	CAE55276	Rv0355c	PPE FAMILY PROTEIN
9	CAE55279	Rv0388c	PPE FAMILY PROTEIN
10	CAE55281	Rv0442c	Uncharacterized PPE family protein PPE10
11	CAE55282	Rv0453	Uncharacterized PPE family protein PPE11
12	CAE55317	Rv0747	Uncharacterized PE-PGRS family protein PE_PGRS10
13	CAE55320	Rv0755c	Uncharacterized PPE family protein PPE12
14	CAE55333	Rv0878c	Uncharacterized PPE family protein PPE13
15	CAE55334	Rv0915c	Uncharacterized PPE family protein PPE14
16	CAE55349	Rv1039c	Uncharacterized PPE family protein PPE15
17	CAE55364	Rv1135c	Uncharacterized PPE family protein PPE16
18	CAE55367	Rv1168c	Uncharacterized PPE family protein PPE17
19	CAE55371	Rv1196	PPE FAMILY PROTEIN (PPE family protein)
20	CAE55379	Rv1361c	Uncharacterized PPE family protein PPE19
21	CAE55384	Rv1387	Uncharacterized PPE family protein PPE20
22	CAE55401	Rv1548c	Uncharacterized PPE family protein PPE21
23	CAE55412	Rv1705c	Uncharacterized PPE family protein PPE22
24	CAE55413	Rv1706c	Uncharacterized PPE family protein PPE23
25	CAE55416	Rv1753c	Uncharacterized PPE family protein PPE24
26	CAE55420	Rv1787	Uncharacterized PPE family protein PPE25
27	CAE55422	Rv1789	PPE FAMILY PROTEIN
28	CAE55423	Rv1790	PPE FAMILY PROTEIN
29	CAE55427	Rv1800	Uncharacterized PPE family protein PPE28
30	CAE55428	Rv1801	Uncharacterized PPE family protein PPE29
31	CAE55429	Rv1802	Uncharacterized PPE family protein PPE30
32	CAE55432	Rv1807	PPE FAMILY PROTEIN (Fragment)
33	CAE55433	Rv1808	Uncharacterized PPE family protein PPE32
34	CAE55434	Rv1809	Uncharacterized PPE family protein PPE33
35	CAE55440	Rv1917c	PPE FAMILY PROTEIN
36	CAE55441	Rv1918c	PPE FAMILY PROTEIN
37	CAE55455	Rv2108	Uncharacterized PPE family protein PPE36
38	CAE55457	Rv2123	Uncharacterized PPE family protein PPE37
39	CAE55476	Rv2352c	Uncharacterized PPE family protein PPE38
40	CAE55477	Rv2353c	PPE FAMILY PROTEIN
41	CAE55478	Rv2356c	Uncharacterized PPE family protein PPE40
42	CAE55484	Rv2396	PE-PGRS FAMILY PROTEIN
43	CAE55489	Rv2430c	PPE FAMILY PROTEIN
44	CAE55504	Rv2608	Uncharacterized PPE family protein PPE42
45	CAE55520	Rv2768c	PPE FAMILY PROTEIN
46	CAE55522	Rv2770c	Uncharacterized PPE family protein PPE44
47	CAE55529	Rv2892c	Uncharacterized PPE family protein PPE45
48	CAE55538	Rv3018c	Uncharacterized PPE family protein PPE46
49	CAE55555	Rv3125c	Uncharacterized PPE family protein PPE49
50	CAE55558	Rv3135	Uncharacterized PPE family protein PPE50
51	CAE55559	Rv3136	Uncharacterized PPE family protein PPE51
52	CAE55560	Rv3144c	PPE-FAMILY PROTEIN
53	CAE55561	Rv3159c	PPE FAMILY PROTEIN

54 CAE55585 Rv3343c Uncharacterized PPE family protein PPE54  
55 CAE55588 Rv3347c PPE FAMILY PROTEIN  
56 CAE55589 Rv3350c PPE FAMILY PROTEIN  
57 CAE55590 Rv3367 PE-PGRS FAMILY PROTEIN  
58 CAE55596 Rv3425 Uncharacterized PPE family protein PPE57  
59 CAE55597 Rv3426 Uncharacterized PPE family protein PPE58  
60 CAE55598 Rv3429 Uncharacterized PPE family protein PPE59  
61 CAE55601 Rv3478 PE FAMILY PROTEIN  
62 CAE55609 Rv3532 Uncharacterized PPE family protein PPE61  
63 CAE55610 Rv3533c Uncharacterized PPE family protein PPE62  
64 CAE55612 Rv3539 Uncharacterized PPE family protein PPE63  
65 CAE55613 Rv3558 PPE FAMILY PROTEIN  
66 CAE55623 Rv3621c Uncharacterized PPE family protein PPE65  
67 CAE55634 Rv3738c Uncharacterized PPE family protein PPE66  
68 CAE55635 Rv3739c PPE FAMILY PROTEIN  
69 CAE55649 Rv3892c Uncharacterized PPE family protein PPE69  
70 CAE55541 Rv3021c Uncharacterized PPE family protein PPE47/PPE48  
71 CAE55542 Rv3022c Uncharacterized PPE family protein PPE47/PPE48  
72 CAA15575 Rv2780 Alanine dehydrogenase (EC 1.4.1.1) (40 kDa antigen) (TB43)  
73 CAA15747 Rv3362c PROBABLE ATP/GTP-BINDING PROTEIN  
74 CAA16039 Rv2462c Trigger factor (TF)  
75 CAA16091 Rv3006 Lipoprotein, putative (PROBABLE CONSERVED LIPOPROTEIN LPPZ)  
76 CAA17091 Rv3319 PROBABLE SUCCINATE DEHYDROGENASE)  
77 CAA17454 Rv0583c Lipoprotein, MK35 (PROBABLE CONSERVED LIPOPROTEIN LPQN)  
78 CAA17732 Rv3495c POSSIBLE MCE-FAMILY LIPOPROTEIN LPRN  
79 CAA17852 Rv1979c Uncharacterized transporter Rv1979c/MT2031  
80 CAA17874 Rv3810 Exported repetitive protein (Cell surface protein pirG) (EXP53)  
81 CAA17997 Rv3675 POSSIBLE MEMBRANE PROTEIN  
82 CAA18085 Rv3763 Lipoprotein lpqH (19 kDa lipoprotein antigen)  
83 CAA98206 Rv2094c Sec-independent protein translocase protein tatA/E homolog  
84 CAA98350 Rv2873 Cell surface lipoprotein MPT83 (Lipoprotein p23)  
85 CAA98373 Rv2875 Immunogenic protein MPT70  
86 CAA98382 Rv1980c Immunogenic protein MPT64 (Antigen MPT64)  
87 CAA98399 Rv1984c Probable cutinase Rv1984c/MT2037 (EC 3.1.1.74)  
88 CAB00936 Rv0475 Heparin-binding hemagglutinin (Adhesin)  
89 CAB01465 Rv1837c Malate synthase G (EC 2.3.3.9)  
90 CAB02197 Rv1411c Lipoprotein lprG (27 kDa lipoprotein) (Antigen P27)  
91 CAB06194 Rv2544 Putative lipoprotein lppB  
92 CAB06500 Rv1926c Immunogenic protein MPT63 (16 kDa immunoprotective extracellular protein)  
93 CAB06600 Rv0394c POSSIBLE SECRETED PROTEIN  
94 CAB06849 Rv1030 Potassium-transporting ATPase B chain (EC 3.6.3.12)  
95 CAB08091 Rv3883c MEMBRANE-ANCHORED MYCOSIN  
96 CAB08642 Rv2151c Cell division protein ftsQ homolog  
97 CAB08674 Rv3444c PUTATIVE ESAT-6 LIKE PROTEIN ESXT  
98 CAB08989 Rv0538 POSSIBLE CONSERVED MEMBRANE PROTEIN  
99 CAB10947 Rv1690 PROBABLE LIPOPROTEIN LPRJ  
100 CAE55277 Rv0379 POSSIBLE PROTEIN TRANSPORT PROTEIN SECE2  
101 CAE55339 Rv0934 Phosphate-binding protein pstS 1 (PBP 1) (PstS-1) (Antigen Ag78)  
102 CAE55438 Rv1860 Alanine and proline-rich secreted protein apa (45 kDa glycoprotein)  
103 CAA17583 Rv0984 Molybdenum cofactor biosynthesis protein  
104 CAA15754 Rv3369 Possible role in intermediary metabolism (central biochemistry)  
105 CAB01977 Rv0944 formamidopyrimidine-DNA glycosylase  
106 CAB06684 Rv0272c Possible hydrolase  
107 CAB08851 Rv3628 Inorganic pyrophosphatase (EC 3.6.1.1) (Pyrophosphate phospho-hydrolase) (PPase)  
108 CAB08882 Rv1629 DNA polymerase I (POL I) (EC 2.7.7.7)  
109 CAB09390 Rv0667 DNA-directed RNA polymerase subunit beta (  
110 CAB09599 Rv0302 PROBABLE TRANSCRIPTIONAL REGULATORY PROTEIN

111 CAA16135 Rv3050c TRANSCRIPTIONAL REGULATORY PROTEIN (PROBABLY ASNC-FAMILY)  
112 CAB00986 Rv2282c transcriptional regulator, lysR-family  
113 CAB07007 Rv0212c asnC-family transcriptional regulator nadR  
114 CAB08347 Rv3246c two component system; DNA-binding response regulator mtrA  
115 CAB08624 Rv2618 Putative transcriptional regulator  
116 CAA15542 Rv2746c Putative CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyl-transferase 2  
117 CAA15852 Rv1175c PROBABLE NADPH DEPENDENT 2,4-DIENOYL-COA REDUCTASE FADH  
118 CAA17289 Rv2252 Diacylglycerol kinase (DAG kinase) (DAGK) (EC 2.7.1.107)  
119 CAA17868 Rv3804c Antigen 85-A (Antigen 85 complex A) (85A) (Ag85A) (  
120 CAA97750 Rv1284 Putative carbonate dehydratase-like protein Rv1284 (EC 4.2.1.-)  
121 CAA98375 Rv2870c 1-deoxy-D-xylulose 5-phosphate reductoisomerase  
122 CAB02482 Rv3775 PROBABLE LIPASE LIPE (EC 3.1.-.-)  
123 CAB05415 Rv2962c PGL/p-HBAD biosynthesis rhamnosyltransferase (EC 2.4.1.-)  
124 CAB05419 Rv2957 PGL/p-HBAD biosynthesis glycosyltransferase Rv2957/MT3031 (EC 2.4.1.-)  
125 CAB07015 Rv0220 Esterase, putative (PROBABLE ESTERASE LIPC) (EC 3.1.1.-)  
126 CAB07121 Rv0632c Enoyl-CoA hydratase/isomerase family protein  
127 CAB09570 Rv0456c ENOYL-CoA HYDRATASE ECHA2 (  
128 CAB10044 Rv1886c Antigen 85-B (30 kDa extracellular protein)  
129 CAA15761 Rv3376 Hydrolase, haloacid dehalogenase-like family  
130 CAA15898 Rv1242 Probable ribonuclease VapC33 (Probable RNase VapC33) (EC 3.1.-.-) (Toxin VapC33)  
131 CAA16227 Rv3914 Thioredoxin (Trx) (MPT46)  
132 CAA17245 Rv2031c Alpha-crystallin (Acr) (14 kDa antigen) (16 kDa antigen) (HSP 16.3) (Nox16)  
133 CAA17973 Rv3881c ESX-1 secretion-associated protein EspB (Antigen MTB48)  
134 CAB05444 Rv2984 Polyphosphate kinase (  
135 CAB06225 Rv3841 Probable bacterioferritin BfrB (Non-heme ferritin Ftn) (Nox19)  
136 CAB06237 Rv3864 ESX-1 secretion-associated protein EspE  
137 CAB06572 Rv0432 Superoxide dismutase [Cu-Zn] (EC 1.15.1.1)  
138 CAB08349 Rv3248c Adenosylhomocysteinase (EC 3.3.1.1) (S-adenosyl-L-homocysteine hydrolase) (AdoHcyase)  
139 CAB08950 Rv3616c ESX-1 secretion-associated protein EspA  
140 CAB09046 Rv1114 Probable ribonuclease VapC32 (Probable RNase VapC32) (EC 3.1.-.-) (Toxin VapC32)  
141 CAB09572 Rv0798c 29 kDa ANTIGEN CFP29 (Bacteriocin CFP29)  
142 CAB10056 Rv1908c Catalase-peroxidase (CP) (EC 1.11.1.6) (EC 1.11.1.7) (Peroxidase/catalase)  
143 CAB10938 Rv1681 POSSIBLE MOLYBDOPTERIN BIOSYNTHESIS PROTEIN MOEX  
144 CAB10951 Rv1694 CYTOTOXIN|HAEMOLYSIN HOMOLOGUE TLYA  
145 CAA18084 Rv3762c POSSIBLE HYDROLASE (EC 3.-.-.-)  
146 CAA17525 Rv0796 Transposase for insertion sequence element IS986/IS6110 (ORFB)  
147 CAA17966 Rv3874 ESAT-6-like protein esxB  
148 CAE55647 Rv3873 Uncharacterized PPE family immunogenic protein PPE68  
149 CAE55648 Rv3875 6 kDa early secretory antigenic target (ESAT-6)  
150 CAB09110 Rv0801 Conserved uncharacterised protein (possible glyoxalase family)  
151 CAA98210 Rv2100 Uncharacterized protein Rv2100/MT2160  
152 CAB08344 Rv3243c Putative uncharacterized protein  
153 CAB08696 Rv3472 Putative uncharacterized protein  
154 CAB09250 Rv1434 Putative uncharacterized protein