

Nomenclature for factors of the HLA system, update October 2016

Compiled by Steven G. E. Marsh for the WHO Nomenclature Committee for Factors of the HLA System.

The following sequences have been submitted to the Nomenclature Committee since the September 2016 nomenclature update and, following agreed policy, have been assigned official allele designations [1]. Full details of all sequences will be published in a forthcoming report.

Below are listed the newly assigned sequences (Table 1) and confirmations of previously reported sequences (Table 2). The accession number of each sequence is given and these can be used to retrieve the sequence files from the EMBL, GenBank or DDBJ data libraries. Although accession numbers have been assigned by the data-libraries and most sequences are already available, there is still the possibility that an author may not yet have allowed the sequence to be released; in such a case you will have to contact the submitting author directly. Additional information pertaining to new sequences is often included in the publications describing these alleles; a listing of recent publications that describe new HLA sequences is given in Table 3.

All new and confirmatory sequences should now be submitted directly to the WHO Nomenclature Committee for Factors of the HLA System via the IMGT/HLA Database using the sequence submission tool provided [2]. The IMGT/HLA Database may be accessed via the World Wide Web at: www.ebi.ac.uk/ipd/imgt/hla

Table 1: New Sequences

HLA Allele	Cell identification	Accession number	Submitting author
A*01:01:77	DKMS-LSL-A-824	LN994725	DKMS Life Sciences Lab, Dresden, Germany
A*01:01:78	DKMS-LSL-A-876	LN999564	DKMS Life Sciences Lab, Dresden, Germany
A*01:01:79	DKMS-LSL-A-916	LN999604	DKMS Life Sciences Lab, Dresden, Germany
A*01:01:80	DKMS-LSL-A-1127	LT599170	DKMS Life Sciences Lab, Dresden, Germany
A*01:218	DKMS-LSL-A-886	LN999574	DKMS Life Sciences Lab, Dresden, Germany
A*01:219	DKMS-LSL-A-884	LN999572	DKMS Life Sciences Lab, Dresden, Germany
A*01:220	DKMS-LSL-A-892	LN999580	DKMS Life Sciences Lab, Dresden, Germany
A*01:221	DKMS-LSL-A-860	LN999548	DKMS Life Sciences Lab, Dresden, Germany
A*01:222	DKMS-LSL-A-903	LN999591	DKMS Life Sciences Lab, Dresden, Germany
A*01:223	DKMS-LSL-A-868	LN999556	DKMS Life Sciences Lab, Dresden, Germany
A*01:224	DKMS-LSL-A-1124	LT599168	DKMS Life Sciences Lab, Dresden, Germany
A*01:225	DKMS-LSL-A-1157	LT599200	DKMS Life Sciences Lab, Dresden, Germany
A*01:226	DKMS-LSL-A-1163, DKMS-LSL-A-1164	LT599166, LT599206	DKMS Life Sciences Lab, Dresden, Germany
A*01:227	DKMS-LSL-A-1156	LT599199	DKMS Life Sciences Lab, Dresden, Germany
A*01:228Q	DKMS-LSL-A-825	LN994726	DKMS Life Sciences Lab, Dresden, Germany
A*01:229	DKMS-LSL-A-874, DKMS-LSL-A-925	LN999562, LN999613	DKMS Life Sciences Lab, Dresden, Germany
A*01:88:02	DKMS-LSL-A-821	LN994722	DKMS Life Sciences Lab, Dresden, Germany
A*02:01:127	DKMS-LSL-A-862	LN999550	DKMS Life Sciences Lab, Dresden, Germany
A*02:01:128	DKMS-LSL-A-1152	LT599195	DKMS Life Sciences Lab, Dresden, Germany
A*02:01:129	H4164	KT588617	Xiaojing Wang, Tianjin, China
A*02:02:04	DKMS-LSL-A-924	LN999612	DKMS Life Sciences Lab, Dresden, Germany
A*02:164:02	DKMS-LSL-A-899	LN999587	DKMS Life Sciences Lab, Dresden, Germany
A*02:528:02	DKMS-LSL-A-923	LN999611	DKMS Life Sciences Lab, Dresden, Germany
A*02:655	DKMS-LSL-A-850	LN994751	DKMS Life Sciences Lab, Dresden, Germany
A*02:656	DKMS-LSL-A-881	LN999569	DKMS Life Sciences Lab, Dresden, Germany
A*02:657	DKMS-LSL-A-872	LN999560	DKMS Life Sciences Lab, Dresden, Germany
A*02:658	DKMS-LSL-A-914	LN999602	DKMS Life Sciences Lab, Dresden, Germany
A*02:659	DKMS-LSL-A-918	LN999606	DKMS Life Sciences Lab, Dresden, Germany
A*02:660	DKMS-LSL-A-901	LN999589	DKMS Life Sciences Lab, Dresden, Germany
A*02:661	DKMS-LSL-A-1126	LT599164	DKMS Life Sciences Lab, Dresden, Germany
A*02:662	DKMS-LSL-A-804	LN994705	DKMS Life Sciences Lab, Dresden, Germany
A*03:01:60	DKMS-LSL-A-1141	LT599184	DKMS Life Sciences Lab, Dresden, Germany
A*03:01:61	SMC160615_37168	KX905165	Oh-Joong Kwon, Seoul, South Korea
A*03:266N	DKMS-LSL-A-817	LN994718	DKMS Life Sciences Lab, Dresden, Germany
A*03:267	DKMS-LSL-A-889	LN999577	DKMS Life Sciences Lab, Dresden, Germany
A*03:268	DKMS-LSL-A-926	LN999614	DKMS Life Sciences Lab, Dresden, Germany
A*03:269N	DKMS-LSL-A-877	LN999565	DKMS Life Sciences Lab, Dresden, Germany
A*03:270	DKMS-LSL-A-1125	LT599169	DKMS Life Sciences Lab, Dresden, Germany
A*03:271	DKMS-LSL-A-1153	LT599196	DKMS Life Sciences Lab, Dresden, Germany
A*03:272	DKMS-LSL-A-1135	LT599178	DKMS Life Sciences Lab, Dresden, Germany
A*11:01:01:04	TMO31577	KX900606	Antonio Balas, Madrid, Spain
A*11:01:73	DKMS-LSL-A-909	LN999597	DKMS Life Sciences Lab, Dresden, Germany
A*11:01:74	DKMS-LSL-A-915	LN999603	DKMS Life Sciences Lab, Dresden, Germany
A*11:01:75	DKMS-LSL-A-894	LN999582	DKMS Life Sciences Lab, Dresden, Germany
A*11:01:76	H4204	KT588618	Xiaojing Wang, Tianjin, China
A*11:137:02N	DKMS-LSL-A-900	LN999588	DKMS Life Sciences Lab, Dresden, Germany
A*11:252	DKMS-LSL-A-931	LN999619	DKMS Life Sciences Lab, Dresden, Germany
A*11:253	DKMS-LSL-A-866	LN999554	DKMS Life Sciences Lab, Dresden, Germany
A*11:254	DKMS-LSL-A-1155	LT599198	DKMS Life Sciences Lab, Dresden, Germany
A*11:255	397422	KX897158	Edward KL Yang, Hualien, Taiwan
A*11:256Q	401949	KX810861	Edward KL Yang, Hualien, Taiwan
A*11:257	DKMS-LSL-A-818	LN994719	DKMS Life Sciences Lab, Dresden, Germany
A*23:78	DKMS-LSL-A-905	LN999593	DKMS Life Sciences Lab, Dresden, Germany
A*23:79	DKMS-LSL-A-1144	LT599187	DKMS Life Sciences Lab, Dresden, Germany
A*23:80	DKMS-LSL-A-880	LN999568	DKMS Life Sciences Lab, Dresden, Germany
A*24:02:100	DKMS-LSL-A-1148	LT599191	DKMS Life Sciences Lab, Dresden, Germany
A*24:02:99	DKMS-LSL-A-871	LN999559	DKMS Life Sciences Lab, Dresden, Germany
A*24:368	DKMS-LSL-A-878	LN999566	DKMS Life Sciences Lab, Dresden, Germany
A*24:369	DKMS-LSL-A-929	LN999617	DKMS Life Sciences Lab, Dresden, Germany
A*24:370N	DKMS-LSL-A-895	LN999583	DKMS Life Sciences Lab, Dresden, Germany

A*24:371	DKMS-LSL-A-1145	LT599188	DKMS Life Sciences Lab, Dresden, Germany
A*24:372	DKMS-LSL-A-1133	LT599176	DKMS Life Sciences Lab, Dresden, Germany
A*24:373	DKMS-LSL-A-935	LN999623	DKMS Life Sciences Lab, Dresden, Germany
A*25:01:10	DKMS-LSL-A-822	LN994723	DKMS Life Sciences Lab, Dresden, Germany
A*25:01:11	DKMS-LSL-A-1147	LT599190	DKMS Life Sciences Lab, Dresden, Germany
A*25:41	DKMS-LSL-A-859	LN999547	DKMS Life Sciences Lab, Dresden, Germany
A*25:42N	DKMS-LSL-A-1138	LT599181	DKMS Life Sciences Lab, Dresden, Germany
A*25:43	DKMS-LSL-A-761	LN994662	DKMS Life Sciences Lab, Dresden, Germany
A*25:44	DKMS-LSL-A-879	LN999567	DKMS Life Sciences Lab, Dresden, Germany
A*26:01:42	DKMS-LSL-A-917	LN999605	DKMS Life Sciences Lab, Dresden, Germany
A*26:133	DKMS-LSL-A-795	LN994696	DKMS Life Sciences Lab, Dresden, Germany
A*26:134	DKMS-LSL-A-826	LN994727	DKMS Life Sciences Lab, Dresden, Germany
A*26:135	DKMS-LSL-A-875	LN999563	DKMS Life Sciences Lab, Dresden, Germany
A*26:136	DKMS-LSL-A-933	LN999621	DKMS Life Sciences Lab, Dresden, Germany
A*26:137	DKMS-LSL-A-864	LN999552	DKMS Life Sciences Lab, Dresden, Germany
A*29:02:17:02	DKMS-LSL-A-1139	LT599182	DKMS Life Sciences Lab, Dresden, Germany
A*29:02:18	DKMS-LSL-A-934	LN999622	DKMS Life Sciences Lab, Dresden, Germany
A*29:02:19	DKMS-LSL-A-891	LN999579	DKMS Life Sciences Lab, Dresden, Germany
A*29:95	415121700602	KX989479	Talitha de Hoop, Utrecht, The Netherlands
A*30:108	DKMS-LSL-A-936	LN999624	DKMS Life Sciences Lab, Dresden, Germany
A*31:116	DKMS-LSL-A-1162	LT599205	DKMS Life Sciences Lab, Dresden, Germany
A*31:117	DKMS-LSL-A-1134	LT599177	DKMS Life Sciences Lab, Dresden, Germany
A*31:118	DKMS-LSL-A-885	LN999573	DKMS Life Sciences Lab, Dresden, Germany
A*32:01:26	DKMS-LSL-A-1154	LT599197	DKMS Life Sciences Lab, Dresden, Germany
A*32:26:02	DKMS-LSL-A-865	LN999553	DKMS Life Sciences Lab, Dresden, Germany
A*32:94	DKMS-LSL-A-898	LN999586	DKMS Life Sciences Lab, Dresden, Germany
A*32:95	TSE	KX963352	Aida Turganbekova, Astana, Kazakhstan
A*33:01:10	DKMS-LSL-A-1150	LT599193	DKMS Life Sciences Lab, Dresden, Germany
A*33:121	DKMS-LSL-A-932	LN999620	DKMS Life Sciences Lab, Dresden, Germany
A*33:122	DKMS-LSL-A-1160	LT599203	DKMS Life Sciences Lab, Dresden, Germany
A*33:123N	DKMS-LSL-A-1158	LT599201	DKMS Life Sciences Lab, Dresden, Germany
A*33:124	SMC160628_8839	KX905164	Oh-Joong Kwon, Seoul, South Korea
A*33:125	DKMS-LSL-A-896	LN999584	DKMS Life Sciences Lab, Dresden, Germany
A*68:01:34	DKMS-LSL-A-827	LN994728	DKMS Life Sciences Lab, Dresden, Germany
A*68:158	DKMS-LSL-A-870	LN999558	DKMS Life Sciences Lab, Dresden, Germany
A*68:159Q	DKMS-LSL-A-928	LN999616	DKMS Life Sciences Lab, Dresden, Germany
A*68:66:02	DKMS-LSL-A-930	LN999618	DKMS Life Sciences Lab, Dresden, Germany
B*07:02:01:02	DKMS-LSL-B-683	LN912951	DKMS Life Sciences Lab, Dresden, Germany
B*07:02:50	DKMS-LSL-B-1222	LT599284	DKMS Life Sciences Lab, Dresden, Germany
B*07:02:51	DKMS-LSL-B-1243	LT599261	DKMS Life Sciences Lab, Dresden, Germany
B*07:08:02	DKMS-LSL-B-1190	LT599237	DKMS Life Sciences Lab, Dresden, Germany
B*07:276:02	DKMS-LSL-B-501	LT599248	DKMS Life Sciences Lab, Dresden, Germany
B*07:284	DKMS-LSL-B-1178	LT599226	DKMS Life Sciences Lab, Dresden, Germany
B*07:285N	DKMS-LSL-B-504	LT599251	DKMS Life Sciences Lab, Dresden, Germany
B*07:286	DKMS-LSL-B-1216	LT599278	DKMS Life Sciences Lab, Dresden, Germany
B*07:287	M-631759	LT626067	Kristin Kipper, Martinsried, Germany
B*08:01:35	DKMS-LSL-B-1217	LT599279	DKMS Life Sciences Lab, Dresden, Germany
B*08:01:36	DKMS-LSL-B-1227	LT599289	DKMS Life Sciences Lab, Dresden, Germany
B*08:167	DKMS-LSL-B-1165	LT599213	DKMS Life Sciences Lab, Dresden, Germany
B*08:168	DKMS-LSL-B-1185	LT599232	DKMS Life Sciences Lab, Dresden, Germany
B*08:169	DKMS-LSL-B-1218	LT599280	DKMS Life Sciences Lab, Dresden, Germany
B*08:170	DKMS-LSL-B-1241	LT599257	DKMS Life Sciences Lab, Dresden, Germany
B*08:171	DKMS-LSL-B-1220	LT599282	DKMS Life Sciences Lab, Dresden, Germany
B*13:02:19	DKMS-LSL-B-1193	LT599240	DKMS Life Sciences Lab, Dresden, Germany
B*13:97	DKMS-LSL-B-1191	LT599238	DKMS Life Sciences Lab, Dresden, Germany
B*13:98	5751600802	KX976469	Faming Zhu, Hangzhou, China
B*15:01:01:07	DKMS-LSL-B-687	LN912955	DKMS Life Sciences Lab, Dresden, Germany
B*15:01:01:08	DKMS-LSL-B-686	LN912954	DKMS Life Sciences Lab, Dresden, Germany
B*15:01:01:09	DKMS-LSL-B-688	LN912956	DKMS Life Sciences Lab, Dresden, Germany
B*15:01:40	DKMS-LSL-B-1203	LT599265	DKMS Life Sciences Lab, Dresden, Germany
B*15:406	DKMS-LSL-B-1194	LT599241	DKMS Life Sciences Lab, Dresden, Germany
B*15:407	DKMS-LSL-B-1199	LT599245	DKMS Life Sciences Lab, Dresden, Germany
B*15:408	DKMS-LSL-B-1183	LT599230	DKMS Life Sciences Lab, Dresden, Germany
B*15:409	DKMS-LSL-B-1184	LT599231	DKMS Life Sciences Lab, Dresden, Germany
B*15:410	DKMS-LSL-B-1186	LT599233	DKMS Life Sciences Lab, Dresden, Germany
B*15:411	DKMS-LSL-B-1187	LT599234	DKMS Life Sciences Lab, Dresden, Germany
B*15:412	DKMS-LSL-B-1228, DKMS-LSL-B-1224	LT599290, LT599286	DKMS Life Sciences Lab, Dresden, Germany
B*15:413	DKMS-LSL-B-1208	LT599270	DKMS Life Sciences Lab, Dresden, Germany
B*15:414	412792	LT623895	Edward KL Yang, Hualien, Taiwan
B*15:415	DKMS-LSL-B-1188, DKMS-LSL-B-1240	LT599235, LT599255	DKMS Life Sciences Lab, Dresden, Germany
B*27:02:01:02	DKMS-LSL-B-1200	LT599212	DKMS Life Sciences Lab, Dresden, Germany
B*27:02:03	24899-1	LT616961	Maria Loginova, Kirov, Russia
B*27:04:06	5791600124	KX976468	Faming Zhu, Hangzhou, China
B*27:157	DKMS-LSL-B-1179	LT599227	DKMS Life Sciences Lab, Dresden, Germany
B*27:158	DKMS-LSL-B-1219	LT599281	DKMS Life Sciences Lab, Dresden, Germany
B*27:90:04	DKMS-LSL-B-1189	LT599236	DKMS Life Sciences Lab, Dresden, Germany
B*35:330	TMO31577	KX900605	Antonio Balas, Madrid, Spain
B*35:331	394722184733112	LT616968	Maria Loginova, Kirov, Russia
B*37:62	DKMS-LSL-B-1197	LT599243	DKMS Life Sciences Lab, Dresden, Germany
B*37:63	DKMS-LSL-B-499	LT599246	DKMS Life Sciences Lab, Dresden, Germany
B*37:64	DKMS-LSL-B-505	LT599252	DKMS Life Sciences Lab, Dresden, Germany
B*39:122	DKMS-LSL-B-1195	LT599242	DKMS Life Sciences Lab, Dresden, Germany
B*39:123	DKMS-LSL-B-1200	LT599211	DKMS Life Sciences Lab, Dresden, Germany
B*40:01:02:02	DKMS-LSL-B-694	LN912962	DKMS Life Sciences Lab, Dresden, Germany
B*40:01:02:03	DKMS-LSL-B-695	LN912963	DKMS Life Sciences Lab, Dresden, Germany
B*40:01:49	14669-1	LT616960	Maria Loginova, Kirov, Russia
B*40:345N	DKMS-LSL-B-1177	LT599225	DKMS Life Sciences Lab, Dresden, Germany
B*40:346	DKMS-LSL-B-1242	LT599259	DKMS Life Sciences Lab, Dresden, Germany
B*40:347	DKMS-LSL-B-1206	LT599268	DKMS Life Sciences Lab, Dresden, Germany
B*41:02:07	DKMS-LSL-B-1211	LT599273	DKMS Life Sciences Lab, Dresden, Germany
B*44:02:41	DKMS-LSL-B-1167	LT599215	DKMS Life Sciences Lab, Dresden, Germany
B*44:02:42	DKMS-LSL-B-1176	LT599224	DKMS Life Sciences Lab, Dresden, Germany
B*44:02:43	DKMS-LSL-B-1210	LT599272	DKMS Life Sciences Lab, Dresden, Germany
B*44:02:44	DKMS-LSL-B-1234	LT599296	DKMS Life Sciences Lab, Dresden, Germany

B*44:03:01:04	DKMS-LSL-B-1243	LT599262	DKMS Life Sciences Lab, Dresden, Germany
B*44:03:38	DKMS-LSL-B-1171	LT599219	DKMS Life Sciences Lab, Dresden, Germany
B*44:03:39	31161-1	LT616964	Maria Loginova, Kirov, Russia
B*44:260	DKMS-LSL-B-1173	LT599221	DKMS Life Sciences Lab, Dresden, Germany
B*44:261	DKMS-LSL-B-1223	LT599285	DKMS Life Sciences Lab, Dresden, Germany
B*44:262	27497-1	LT616962	Maria Loginova, Kirov, Russia
B*46:71	5751600018	KX976470	Faming Zhu, Hangzhou, China
B*51:01:01:03	NT01425NT01428	KX707633	Carolyn K Hurley, Washington DC, USA
B*51:214	DKMS-LSL-B-1170	LT599218	DKMS Life Sciences Lab, Dresden, Germany
B*52:01:29	JRC-D44-051	LC189235	Masahiro Satake, Tokyo, Japan
B*52:64	M-638112	LT626066	Kristin Kipper, Martinsried, Germany
B*54:38	H16-118	KX592591	Eun-Jeong Choi, Seoul, Korea
B*56:01:01:04	DKMS-LSL-B-1226	LT599288	DKMS Life Sciences Lab, Dresden, Germany
B*56:01:09	DKMS-LSL-B-1180	LT599207	DKMS Life Sciences Lab, Dresden, Germany
B*57:01:23	DKMS-LSL-B-1182	LT599229	DKMS Life Sciences Lab, Dresden, Germany
B*57:03:03	DKMS-LSL-B-1168	LT599216	DKMS Life Sciences Lab, Dresden, Germany
B*57:86	DKMS-LSL-B-1198	LT599244	DKMS Life Sciences Lab, Dresden, Germany
B*58:01:21	CNUHH160706_71690813	KX842485	Oh-Joong Kwon, Seoul, South Korea
B*58:84	DKMS-LSL-B-1174	LT599222	DKMS Life Sciences Lab, Dresden, Germany
C*03:344	DKMS-LSL-C-972	LN999660	DKMS Life Sciences Lab, Dresden, Germany
C*05:145	32070-1	LT616967	Maria Loginova, Kirov, Russia
C*06:02:47	H4031	KT588616	Xiaoqing Wang, Tianjin, China
C*07:01:01:08	DKMS-LSL-C-700	LN912968	DKMS Life Sciences Lab, Dresden, Germany
C*07:01:59	DKMS-LSL-C-1253	LT599310	DKMS Life Sciences Lab, Dresden, Germany
C*07:02:01:10	DKMS-LSL-C-707, DKMS-LSL-C-706, DKMS-LSL-C-705, DKMS-LSL-C-704	LN912975, LN912974, LN912973, LN912972	DKMS Life Sciences Lab, Dresden, Germany
C*07:02:01:11	DKMS-LSL-C-703	LN912971	DKMS Life Sciences Lab, Dresden, Germany
C*07:02:01:12	DKMS-LSL-C-702	LN912970	DKMS Life Sciences Lab, Dresden, Germany
C*07:02:01:13	DKMS-LSL-C-701	LN912969	DKMS Life Sciences Lab, Dresden, Germany
C*07:564	DKMS-LSL-C-1275, DKMS-LSL-C-1266, DKMS-LSL-C-1326	LT599332L, T599323, LT599395	DKMS Life Sciences Lab, Dresden, Germany
C*07:565	H3992	KT224441	Xiaoqing Wang, Tianjin, China
C*07:566	D317996	LT623898	Edward KL Yang, Hualien, Taiwan
C*07:567	M-380171	LT626068	Kristin Kipper, Martinsried, Germany
C*12:02:02:02	DKMS-LSL-C-708	LN912976	DKMS Life Sciences Lab, Dresden, Germany
C*12:02:15	H4625	KT988066	Xiaoqing Wang, Tianjin, China
C*12:03:01:07	DKMS-LSL-C-709	LN912977	DKMS Life Sciences Lab, Dresden, Germany
C*12:03:41	DKMS-LSL-C-1263, DKMS-LSL-C-1322	LT599320, LT599391	DKMS Life Sciences Lab, Dresden, Germany
C*12:201	DKMS-LSL-C-710	LN912978	DKMS Life Sciences Lab, Dresden, Germany
C*15:02:01:04	D350435	KX810862	Edward KL Yang, Hualien, Taiwan
C*15:04:03	24935-1	LT616966	Maria Loginova, Kirov, Russia
C*15:134	D301802	LT623897	Edward KL Yang, Hualien, Taiwan
C*16:102	DKMS-LSL-C-90	LN880523	DKMS Life Sciences Lab, Dresden, Germany
DPB1*613:01	M-634920	LT626075	Kristin Kipper, Martinsried, Germany
DPB1*614:01	M-401061	LT626074	Kristin Kipper, Martinsried, Germany
DQB1*02:02:04	DKMS-LSL-DQB1-1018	LN999706	DKMS Life Sciences Lab, Dresden, Germany
DQB1*02:79	DKMS-LSL-DQB1-1038	LN999726	DKMS Life Sciences Lab, Dresden, Germany
DQB1*02:80	DKMS-LSL-DQB1-1030	LN999718	DKMS Life Sciences Lab, Dresden, Germany
DQB1*02:81	DKMS-LSL-DQB1-1088	LN999776	DKMS Life Sciences Lab, Dresden, Germany
DQB1*02:82	DKMS-LSL-DQB1-1075	LN999763	DKMS Life Sciences Lab, Dresden, Germany
DQB1*02:83	DKMS-LSL-DQB1-1076	LN999764	DKMS Life Sciences Lab, Dresden, Germany
DQB1*02:84	DKMS-LSL-DQB1-1123	LT578452	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:01:35	DKMS-LSL-DQB1-1090	LN999778	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:01:36	DKMS-LSL-DQB1-1012	LN999675	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:01:37	DKMS-LSL-DQB1-984	LN999686	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:02:21	DKMS-LSL-DQB1-1073, DKMS-LSL-DQB1-1116, DKMS-LSL-DQB1-1113, DKMS-LSL-DQB1-1119	LN999761, LT578445, LT578442, LT578448	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:02:22	DKMS-LSL-DQB1-996	LN999698	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:02:23	DKMS-LSL-DQB1-1005	LN999668	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:02:24	DKMS-LSL-DQB1-1000	LN999663	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:04:03	DKMS-LSL-DQB1-1010	LN999673	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:244	M-387056	LT626072	Kristin Kipper, Martinsried, Germany
DQB1*03:245	DKMS-LSL-DQB1-1091, DKMS-LSL-DQB1-1087	LN999779, LN999775	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:246	DKMS-LSL-DQB1-1089, DKMS-LSL-DQB1-1064	LN999777, LN999752	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:247	DKMS-LSL-DQB1-1034, DKMS-LSL-DQB1-995	LN999722, LN999697	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:248	DKMS-LSL-DQB1-1037	LN999725	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:249	DKMS-LSL-DQB1-1036	LN999724	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:250	DKMS-LSL-DQB1-1081	LN999769	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:251	DKMS-LSL-DQB1-1056	LN999744	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:252	DKMS-LSL-DQB1-1003	LN999666	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:253	DKMS-LSL-DQB1-988	LN999690	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:254	DKMS-LSL-DQB1-1118	LT578447	DKMS Life Sciences Lab, Dresden, Germany
DQB1*04:02:01:02	DKMS-LSL-DQB1-985	LN999688	DKMS Life Sciences Lab, Dresden, Germany
DQB1*04:02:01:03	DKMS-LSL-DQB1-1121	LT578450	DKMS Life Sciences Lab, Dresden, Germany
DQB1*04:02:11	DKMS-LSL-DQB1-994	LN999696	DKMS Life Sciences Lab, Dresden, Germany
DQB1*04:02:12	DKMS-LSL-DQB1-1107	LT578436	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:01:23	DKMS-LSL-DQB1-978	LN999680	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:132Q	FK80900	KU319373	Konstantinos Barsakis, Palo Alto, USA
DQB1*05:133	M-635116	LT626073	Kristin Kipper, Martinsried, Germany
DQB1*05:133	DKMS-LSL-DQB1-1004	LN999667	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:134	DKMS-LSL-DQB1-1027	LN999715	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:135	DKMS-LSL-DQB1-1016	LN999704	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:136	DKMS-LSL-DQB1-979	LN999681	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:137	DKMS-LSL-DQB1-1013	LN999676	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:43:02	DKMS-LSL-DQB1-1053	LN999741	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:02:01:03	DKMS-LSL-DQB1-975	LN999677	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:02:26	DKMS-LSL-DQB1-1009	LN999672	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:03:23	DKMS-LSL-DQB1-1078, DKMS-LSL-DQB1-1039, DKMS-LSL-DQB1-1055	LN999766, LN999727, LN999743	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:03:24	DKMS-LSL-DQB1-1067	LN999755	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:03:25	DKMS-LSL-DQB1-1002	LN999665	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:03:26	DKMS-LSL-DQB1-1114	LT578443	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:206:02	DKMS-LSL-DQB1-1111	LT578440	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:216N	FK80426	KU319375	Konstantinos Barsakis, Palo Alto, USA

DQB1*06:217	FK101683	KU319378	Konstantinos Barsakis, Palo Alto, USA
DQB1*06:217	DKMS-LSL-DQB1-1050, DKMS-LSL-DQB1-981	LN999738, LN999683	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:218	DKMS-LSL-DQB1-1063, DKMS-LSL-DQB1-1060, DKMS-LSL-DQB1-1062	LN999751, LN999748, LN999750	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:219	DKMS-LSL-DQB1-1042	LN999730	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:221	DKMS-LSL-DQB1-991	LN999693	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:222	DKMS-LSL-DQB1-1011	LN999674	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:223	DKMS-LSL-DQB1-982	LN999684	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:224	DKMS-LSL-DQB1-980, DKMS-LSL-DQB1-985	LN999682, LN999687	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:225	DKMS-LSL-DQB1-987	LN999689	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:226	DKMS-LSL-DQB1-1095	LT578423	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:227	DKMS-LSL-DQB1-1105	LT578434	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:228	DKMS-LSL-DQB1-1104	LT578432	DKMS Life Sciences Lab, Dresden, Germany
DRB1*04:218	M-631103	LT626069	Kristin Kipper, Martinsried, Germany
DRB1*10:20	M-428453	LT626070	Kristin Kipper, Martinsried, Germany
DRB1*11:193:02	HG00008034	KF976752	Histogenetics, Ossining, USA
DRB1*12:61	H4929	KU220969	Xiaojing Wang, Tianjin, China
DRB1*13:227	M-566226	LT626071	Kristin Kipper, Martinsried, Germany
DRB1*15:140	D311359	KX810864	Edward KL Yang, Hualien, Taiwan

Table 2: Confirmatory Sequences

HLA Allele	Cell identification	Accession number	Submitting author
A*01:09:01	25326826	LT617817	Thibaut Gervais, Brussels, Belgium
A*01:190	DKMS-LSL-A-1161	LT599204	DKMS Life Sciences Lab, Dresden, Germany
A*02:11:01	DKMS-LSL-A-1163	LT599167	DKMS Life Sciences Lab, Dresden, Germany
A*02:324	25921660	LT617814	Thibaut Gervais, Brussels, Belgium
A*02:545	DKMS-LSL-A-1140	LT599183	DKMS Life Sciences Lab, Dresden, Germany
A*02:562	DKMS-LSL-A-1128	LT599171	DKMS Life Sciences Lab, Dresden, Germany
A*03:238	DKMS-LSL-A-1142	LT599185	DKMS Life Sciences Lab, Dresden, Germany
A*11:192	DKMS-LSL-A-1146	LT599189	DKMS Life Sciences Lab, Dresden, Germany
A*11:221	DKMS-LSL-A-1131	LT599174	DKMS Life Sciences Lab, Dresden, Germany
A*23:65	DKMS-LSL-A-1159	LT599202	DKMS Life Sciences Lab, Dresden, Germany
A*24:331	DKMS-LSL-A-1132	LT599175	DKMS Life Sciences Lab, Dresden, Germany
A*26:125	DKMS-LSL-A-820	LN994721	DKMS Life Sciences Lab, Dresden, Germany
A*29:02:14	DKMS-LSL-A-1151	LT599194	DKMS Life Sciences Lab, Dresden, Germany
A*29:02:16	DKMS-LSL-A-497	LN880521	DKMS Life Sciences Lab, Dresden, Germany
A*30:89	DKMS-LSL-A-1149	LT599192	DKMS Life Sciences Lab, Dresden, Germany
A*66:24	DKMS-LSL-A-1137	LT599180	DKMS Life Sciences Lab, Dresden, Germany
A*68:01:02:02	DKMS-LSL-A-1136, DKMS-LSL-A-1126	LT599179, LT599165	DKMS Life Sciences Lab, Dresden, Germany
A*68:101	DKMS-LSL-A-1129, DKMS-LSL-A-1130	LT599172, LT599173	DKMS Life Sciences Lab, Dresden, Germany
A*68:138	DKMS-LSL-A-1143	LT599186	DKMS Life Sciences Lab, Dresden, Germany
B*07:05:01:01	DKMS-LSL-B-1169, DKMS-LSL-B-1240	LT599217, LT599256	DKMS Life Sciences Lab, Dresden, Germany
B*07:218	DKMS-LSL-B-1229	LT599291	DKMS Life Sciences Lab, Dresden, Germany
B*07:37	2928	LT616965	Maria Loginova, Kirov, Russia
B*08:120	DKMS-LSL-B-1235	LT599297	DKMS Life Sciences Lab, Dresden, Germany
B*08:138	DKMS-LSL-B-1166	LT599214	DKMS Life Sciences Lab, Dresden, Germany
B*08:147	DKMS-LSL-B-1204	LT599266	DKMS Life Sciences Lab, Dresden, Germany
B*13:88	DKMS-LSL-B-1237	LT599299	DKMS Life Sciences Lab, Dresden, Germany
B*14:02:11	DKMS-LSL-B-1232	LT599294	DKMS Life Sciences Lab, Dresden, Germany
B*15:01:01:06	DKMS-LSL-B-689, DKMS-LSL-B-690, DKMS-LSL-B-691, DKMS-LSL-B-692	LN912957, LN912958, LN912959, LN912960	DKMS Life Sciences Lab, Dresden, Germany
B*15:09	DKMS-LSL-B-1239	LT599254	DKMS Life Sciences Lab, Dresden, Germany
B*15:17:01:01	DKMS-LSL-B-1241	LT599258	DKMS Life Sciences Lab, Dresden, Germany
B*15:18:01:02	DKMS-LSL-B-1242	LT599260	DKMS Life Sciences Lab, Dresden, Germany
B*15:237	76759	LT617818	Jane Rowlands, Pontyclun, United Kingdom
B*15:29	1-15	KX962568	Reem Ameen, Jabriya, Kuwait
B*15:296	SZGSQ 30	KX827239	Su-Qing Gao, Shenzhen, China
B*15:373	DKMS-LSL-B-503	LT599250	DKMS Life Sciences Lab, Dresden, Germany
B*18:110	DKMS-LSL-B-1230	LT599292	DKMS Life Sciences Lab, Dresden, Germany
B*18:121	DKMS-LSL-B-1225	LT599287	DKMS Life Sciences Lab, Dresden, Germany
B*27:05:23	DKMS-LSL-B-1192	LT599239	DKMS Life Sciences Lab, Dresden, Germany
B*27:07:04	DKMS-LSL-B-1231	LT599293	DKMS Life Sciences Lab, Dresden, Germany
B*27:123	DKMS-LSL-B-1215	LT599277	DKMS Life Sciences Lab, Dresden, Germany
B*27:137	DKMS-LSL-B-1238	LT599300	DKMS Life Sciences Lab, Dresden, Germany
B*27:142	DKMS-LSL-B-1214	LT599276	DKMS Life Sciences Lab, Dresden, Germany
B*27:146	DKMS-LSL-B-1213	LT599275	DKMS Life Sciences Lab, Dresden, Germany
B*35:294	DKMS-LSL-B-502	LT599249	DKMS Life Sciences Lab, Dresden, Germany
B*37:42N	DKMS-LSL-B-1209	LT599271	DKMS Life Sciences Lab, Dresden, Germany
B*39:98	DKMS-LSL-B-1196	LT599209	DKMS Life Sciences Lab, Dresden, Germany
B*40:02:01:01	DKMS-LSL-B-1196	LT599210	DKMS Life Sciences Lab, Dresden, Germany
B*40:273	DKMS-LSL-B-500	LT599247	DKMS Life Sciences Lab, Dresden, Germany
B*40:334	DKMS-LSL-B-1205	LT599267	DKMS Life Sciences Lab, Dresden, Germany
B*41:01:01	88-15	KX926132	Reem Ameen, Jabriya, Kuwait
B*41:49	DKMS-LSL-B-1202	LT599264	DKMS Life Sciences Lab, Dresden, Germany
B*44:02:01:03	DKMS-LSL-B-1180, DKMS-LSL-B-1221	LT599208, LT599283	DKMS Life Sciences Lab, Dresden, Germany
B*44:259	DKMS-LSL-B-1172	LT599220	DKMS Life Sciences Lab, Dresden, Germany
B*44:27:01	DKMS-LSL-B-1201	LT599263	DKMS Life Sciences Lab, Dresden, Germany
B*51:01:18	HG00005026	JQ359499	Histogenetics, Ossining, USA
B*51:190	DKMS-LSL-B-1233	LT599295	DKMS Life Sciences Lab, Dresden, Germany
B*51:208	DKMS-LSL-B-1239	LT599253	DKMS Life Sciences Lab, Dresden, Germany
B*51:83	HG00005025	JQ911887	Histogenetics, Ossining, USA
B*52:40	DKMS-LSL-B-1212	LT599274	DKMS Life Sciences Lab, Dresden, Germany
B*55:60	DKMS-LSL-B-1236	LT599298	DKMS Life Sciences Lab, Dresden, Germany
B*55:73	DKMS-LSL-B-1207	LT599269	DKMS Life Sciences Lab, Dresden, Germany
B*55:74	DKMS-LSL-B-1181	LT599228	DKMS Life Sciences Lab, Dresden, Germany
B*57:03:01:02	RDP-CH3-04RDP-CH3-16	KY000094	Carolyn K Hurley, Washington DC, USA
B*58:35	DKMS-LSL-B-1175	LT599223	DKMS Life Sciences Lab, Dresden, Germany
C*04:01:01:01	BM9	KX687303	Konstantinos Barsakis, Palo Alto, USA
C*06:148	DKMS-LSL-C-1254	LT599311	DKMS Life Sciences Lab, Dresden, Germany
C*07:01:01:06	DKMS-LSL-C-697, DKMS-LSL-C-698, DKMS-LSL-C-699	LN912965, LN912966, LN912967	DKMS Life Sciences Lab, Dresden, Germany
C*07:02:01:07	DKMS-LSL-C-1257, DKMS-LSL-C-1256,	LT599314, LT599313,	DKMS Life Sciences Lab, Dresden, Germany

C*07:06	DKMS-LSL-C-1265, DKMS-LSL-C-1261, DKMS-LSL-C-1334	LT599322, LT599318, LT599402	Reem Ameen, Jabriya, Kuwait
C*07:106	262-15	KX886825	DKMS Life Sciences Lab, Dresden, Germany
C*07:25	DKMS-LSL-C-1252, DKMS-LSL-C-1251	LT599309, LT599308	Thibaut Gervais, Brussels, Belgium
C*07:68	25677021	LT617815	DKMS Life Sciences Lab, Dresden, Germany
C*16:97	DKMS-LSL-C-1250	LT599307	Cinzia Vecchiato, Bolzano, Italy
DPB1*06:01:01	984727136872523258142394266	LN879396	DKMS Life Sciences Lab, Dresden, Germany
DPB1*20:01:01	DKMS-LSL-DPB1-1359, DKMS-LSL-DPB1-1358	LT599422, LT599421	DKMS Life Sciences Lab, Dresden, Germany
DPB1*21:01	DKMS-LSL-DPB1-1373, DKMS-LSL-DPB1-1372	LT599436, LT599435	DKMS Life Sciences Lab, Dresden, Germany
DPB1*23:01:01	DKMS-LSL-DPB1-1375, DKMS-LSL-DPB1-1374	LT599438, LT599437	DKMS Life Sciences Lab, Dresden, Germany
DPB1*30:01	DKMS-LSL-DPB1-1377, DKMS-LSL-DPB1-1376	LT599440, LT599439	DKMS Life Sciences Lab, Dresden, Germany
DPB1*33:01	DKMS-LSL-DPB1-1382, DKMS-LSL-DPB1-1383	LT599445, LT599446	DKMS Life Sciences Lab, Dresden, Germany
DPB1*36:01	DKMS-LSL-DPB1-1395, DKMS-LSL-DPB1-1394	LT599458, LT599457	DKMS Life Sciences Lab, Dresden, Germany
DPB1*47:01	DKMS-LSL-DPB1-1397, DKMS-LSL-DPB1-1396	LT599460, LT599459	DKMS Life Sciences Lab, Dresden, Germany
DPB1*81:01	DKMS-LSL-DPB1-1400, DKMS-LSL-DPB1-1401	LT599463, LT599464	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:10:02	DKMS-LSL-DPB1-1390, DKMS-LSL-DPB1-1391	LT599453, LT599454	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:197Q	DKMS-LSL-DQB1-1008	LN999671	DKMS Life Sciences Lab, Dresden, Germany
DQB1*03:239	DKMS-LSL-DQB1-1031	LN999719	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:01:01:03	DKMS-LSL-DQB1-993	LN999695	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:02:01	DKMS-LSL-DQB1-1094	LT578422	DKMS Life Sciences Lab, Dresden, Germany
DQB1*05:04	CHA,AJ	KU319370	Konstantinos Barsakis, Palo Alto, USA
DQB1*06:02:17	FK104447	KU319374	Konstantinos Barsakis, Palo Alto, USA
DQB1*06:03:21	DKMS-LSL-DQB1-1101	LT578429	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:04:01	DKMS-LSL-DQB1-1025, DKMS-LSL-DQB1-1052, DKMS-LSL-DQB1-1074	LN999713, LN999740, LN999762	DKMS Life Sciences Lab, Dresden, Germany
DQB1*06:04:01	LEO23	KU319377	Konstantinos Barsakis, Palo Alto, USA
DQB1*06:10	DKMS-LSL-DQB1-1104	LT578433	DKMS Life Sciences Lab, Dresden, Germany
DRB1*03:15:02	FKC7	KU319380	Konstantinos Barsakis, Palo Alto, USA
DRB1*04:88	FKD1031501x1	KX687268	Konstantinos Barsakis, Palo Alto, USA
DRB1*14:152N	HG00001828	HM594839	Histogenetics, Ossining, USA
DRB1*14:17	FKD11452NE1	KX687280	Konstantinos Barsakis, Palo Alto, USA
	#15310-LN	KX687281	Konstantinos Barsakis, Palo Alto, USA

Table 3: Recently Published Sequences

HLA Allele	References
A*01:01:65	[3]
A*01:01:66	[3]
A*26:01:01:03N	[4]
A*33:88	[5]
B*08:163	[6]
B*15:399	[7]
B*44:03:35	[3]
B*50:01:08	[8]
C*15:103	[9]
DRB1*13:215	[10]
DRB1*15:01:30	[3]
DQB1*02:01:24	[3]

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6. Proust B, Masson D, Proust BP, Baudron M, Dehaut F: Identification of a novel HLA allele, HLA-B*08:163, in a platelet donor. *HLA* 2016; 88(5): 263-4.
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