



Nomenclature for factors of the HLA system, update July, August and September 2019

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

Anthony Nolan Research Institute, Royal Free Hospital, Pond Street, London NW3 2QG, United Kingdom

The following sequences have been submitted to the Nomenclature Committee since the April, May and June 2019 nomenclature update [1] and, following agreed policy, have been assigned official allele designations [2]. 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. In addition, the DRB4*01:14 sequence was

extended and shown to have a polymorphism in intron 1, causing an alternative splice site prior to exon 2, which prevents translation into a correct and stable class II molecule expressed on the cell surface as such the N suffix has been added, and the name extended to DRB4*01:14N. The alleles A*01:301, A*24:02:01:17, A*24:447, A*24:450, B*18:01:01:12, B*38:68Q, B*44:02:01:13, DRB5*02:26, and DPB1*939:01N are have been assessed for their expression status and now named A*01:301Q, A*24:02:01:17Q, A*24:447Q, A*24:450Q, B*18:01:01:12Q, B*38:68L, B*44:02:01:13Q, DRB5*02:26N, and DPB1*939:01, respectively. The sequence for A*24:471 has now been shown to be in error and is identical to A*24:02:01:01, the name A*24:471 has been abandoned.

All new and confirmatory sequences should now be submitted directly to the WHO Nomenclature Committee for Factors of the HLA System via the IPD-IMGT/HLA Database using the sequence submission tool provided [3]. The IPD-IMGT/HLA Database may be accessed via the World Wide Web at: www.ebi.ac.uk/ipd/imgt/hla

* Corresponding author. Tel.: +44 20 7284 8321; fax +44 20 7284 8331.

E-mail address: steven.marsh@ucl.ac.uk.

<https://doi.org/10.1016/j.humimm.2019.10.004>

Table 1
New Sequences.

HLA Allele	Cell identification	Accession number	Submitting author
A*01:01:01:26	HG00022605, HG00022615, HG00022725, HG00022839, HG00022871, HG00022887, HG00022931, HG00022940, HG00022942, HG00022966	MK938096, MK938106, MK954884, MK955000, MK955033, MK955049, MK955093, MK955102, MK955104, MK955129	Histogenetics, Ossining, USA
A*01:01:01:27	HG00022608	MK938099	Histogenetics, Ossining, USA
A*01:01:01:28	HG00022622	MK938115	Histogenetics, Ossining, USA
A*01:01:01:29	HG00022647	MK938141	Histogenetics, Ossining, USA
A*01:01:01:30	HG00022668	MK938163	Histogenetics, Ossining, USA
A*01:01:01:31	HG00022712	MK954870	Histogenetics, Ossining, USA
A*01:01:01:32	HG00022775	MK954936	Histogenetics, Ossining, USA
A*01:01:01:33	HG00022796	MK954957	Histogenetics, Ossining, USA
A*01:01:01:34	HG00022812, HG00022859	MK954973, MK955021	Histogenetics, Ossining, USA
A*01:01:01:35	HG00022834	MK954995	Histogenetics, Ossining, USA
A*01:01:01:36	HG00022840, HG00023101	MK955001, MN015949	Histogenetics, Ossining, USA
A*01:01:01:37	HG00022924, HG00023114	MK955086, MN015962	Histogenetics, Ossining, USA
A*01:01:01:38	HG00022955	MK955117	Histogenetics, Ossining, USA
A*01:01:01:39	HG00022994	MN015842	Histogenetics, Ossining, USA
A*01:01:01:40	HG00023011	MN015859	Histogenetics, Ossining, USA
A*01:01:01:41	HG00023063, HG00023064, HG00023207	MN015911, MN015912, MN016058	Histogenetics, Ossining, USA
A*01:01:01:42	HG00023088	MN015936	Histogenetics, Ossining, USA
A*01:01:01:43	HG00023096	MN015944	Histogenetics, Ossining, USA
A*01:01:01:44	HG00023145	MN015994	Histogenetics, Ossining, USA
A*01:01:01:45	HG00022667, HG00023019	MK938162, MN015867	Histogenetics, Ossining, USA
A*01:01:01:46	HG00022875	MK955037	Histogenetics, Ossining, USA
A*01:01:01:47	HG00022928	MK955090	Histogenetics, Ossining, USA
A*01:01:01:48	HG00023007, HG00023014, HG00023169, HG00023192	MN015855, MN015862, MN016018, MN016042	Histogenetics, Ossining, USA
A*01:01:01:49	HG00025066	MN075174	Histogenetics, Ossining, USA
A*01:01:01:50	HG00025110	MN166910	Histogenetics, Ossining, USA
A*01:01:107	2018-271-00955	MN154468	Jonathan Williams, Burlington, USA
A*01:01:108	HG00025062	MN075170	Histogenetics, Ossining, USA
A*01:01:109	HG00025114	MN178562	Histogenetics, Ossining, USA
A*01:320N	HG00020075	MK511128	Histogenetics, Ossining, USA
A*01:321	HG00019744	MK192143	Histogenetics, Ossining, USA
A*01:322	HG00022509	MK890178	Histogenetics, Ossining, USA
A*01:323	HG00022567	MK920314	Histogenetics, Ossining, USA
A*01:324	HG00022572, HG00022575	MK920319, MK920322	Histogenetics, Ossining, USA
A*01:325	HG00022584	MK920332	Histogenetics, Ossining, USA
A*01:326N	HG00022661	MK938156	Histogenetics, Ossining, USA
A*01:327	HG00023240	MN016091	Histogenetics, Ossining, USA
A*01:328N	HG00025004	MN053449	Histogenetics, Ossining, USA
A*01:329	2018-271-01118	MN154557	Jonathan Williams, Burlington, USA
A*01:330	2018-271-01104	MN154546	Jonathan Williams, Burlington, USA
A*01:331N	HG00025078	MN115446	Histogenetics, Ossining, USA
A*02:01:01:100	HG00022952	MK955114	Histogenetics, Ossining, USA
A*02:01:01:101	HG00022953	MK955115	Histogenetics, Ossining, USA
A*02:01:01:102	HG00022959	MK955122	Histogenetics, Ossining, USA
A*02:01:01:103	HG00022963, HG00023144, HG00023184, HG00023217	MK955126, MN015993, MN016033, MN016068	Histogenetics, Ossining, USA
A*02:01:01:104	HG00022965, HG00023229	MK955128, MN016080	Histogenetics, Ossining, USA
A*02:01:01:105	HG00022968, HG00023020	MK955133, MN015868	Histogenetics, Ossining, USA
A*02:01:01:106	HG00022972	MK955137	Histogenetics, Ossining, USA
A*02:01:01:107	HG00022974, HG00023138	MK955139, MN015987	Histogenetics, Ossining, USA
A*02:01:01:108	HG00022982	MN015830	Histogenetics, Ossining, USA
A*02:01:01:109	HG00023002	MN015850	Histogenetics, Ossining, USA
A*02:01:01:110	HG00023004	MN015852	Histogenetics, Ossining, USA
A*02:01:01:111	HG00023026	MN015874	Histogenetics, Ossining, USA
A*02:01:01:112	HG00023047, HG00023226	MN015895, MN016077	Histogenetics, Ossining, USA
A*02:01:01:113	HG00023062, HG00023071	MN015910, MN015919	Histogenetics, Ossining, USA
A*02:01:01:114	HG00023105, HG00023198	MN015953, MN016048	Histogenetics, Ossining, USA
A*02:01:01:115	HG00023107	MN015955	Histogenetics, Ossining, USA
A*02:01:01:116	HG00023123	MN015971	Histogenetics, Ossining, USA
A*02:01:01:117	HG00023156	MN016005	Histogenetics, Ossining, USA
A*02:01:01:118	HG00023166	MN016015	Histogenetics, Ossining, USA
A*02:01:01:119	HG00023181	MN016030	Histogenetics, Ossining, USA
A*02:01:01:120	HG00023191	MN016041	Histogenetics, Ossining, USA
A*02:01:01:121	HG00023223	MN016074	Histogenetics, Ossining, USA
A*02:01:01:122	HG00023273	MN016128	Histogenetics, Ossining, USA
A*02:01:01:123	HG00023283	MN016138	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
A*02:01:01:124	HG00024999	MN053444	Histogenetics, Ossining, USA
A*02:01:01:125	CMC02	MN105085	So-Jung Choi, Seoul, South Korea
A*02:01:01:126	24805733	MN241816	Luis Alberto, Albacete, Spain
A*02:01:01:127	HG00022899	MK955061	Histogenetics, Ossining, USA
A*02:01:01:128	HG00025096	MN136780	Histogenetics, Ossining, USA
A*02:01:01:129	HG00025112	MN166912	Histogenetics, Ossining, USA
A*02:01:01:130	HG00022695	MK954853	Histogenetics, Ossining, USA
A*02:01:01:131	HG00023261	MN016113	Histogenetics, Ossining, USA
A*02:01:01:59	HG00019161, HG00023256	MK955130, MN016108	Histogenetics, Ossining, USA
A*02:01:01:60	HG00020841, HG00023057, HG00023254	MK954883, MN015905, MN016106	Histogenetics, Ossining, USA
A*02:01:01:61	HG00022589	MK938078	Histogenetics, Ossining, USA
A*02:01:01:62	HG00022594	MK938085	Histogenetics, Ossining, USA
A*02:01:01:63	HG00022599, HG00022601	MK938090, MK938092	Histogenetics, Ossining, USA
A*02:01:01:64	HG00022603	MK938094	Histogenetics, Ossining, USA
A*02:01:01:65	HG00022609, HG00023102	MK938100, MN015950	Histogenetics, Ossining, USA
A*02:01:01:66	HG00022629	MK938123	Histogenetics, Ossining, USA
A*02:01:01:67	HG00022669	MK938164	Histogenetics, Ossining, USA
A*02:01:01:68	HG00022677, HG00022846	MK938172, MK955007	Histogenetics, Ossining, USA
A*02:01:01:69	HG00022683, HG00022881, HG00022896	MK954841, MK955043, MK955058	Histogenetics, Ossining, USA
A*02:01:01:70	HG00022696, HG00023243, HG00023255	MK954854, MN016095, MN016107	Histogenetics, Ossining, USA
A*02:01:01:71	HG00022704, HG00022778, HG00023186	MK954862, MK954939, MN016035	Histogenetics, Ossining, USA
A*02:01:01:72	HG00022710	MK954868	Histogenetics, Ossining, USA
A*02:01:01:73	HG00022713	MK954871	Histogenetics, Ossining, USA
A*02:01:01:74	HG00022722	MK954880	Histogenetics, Ossining, USA
A*02:01:01:75	HG00022724, HG00023036	MK954882, MN015884	Histogenetics, Ossining, USA
A*02:01:01:76	HG00022728	MK954887	Histogenetics, Ossining, USA
A*02:01:01:77	HG00022741, HG00023161	MK954900, MN016010	Histogenetics, Ossining, USA
A*02:01:01:78	HG00022742, HG00022935	MK954901, MK955097	Histogenetics, Ossining, USA
A*02:01:01:79	HG00022747	MK954907	Histogenetics, Ossining, USA
A*02:01:01:80	HG00022751, HG00023127	MK954911, MN015975	Histogenetics, Ossining, USA
A*02:01:01:81	HG00022790	MK954951	Histogenetics, Ossining, USA
A*02:01:01:82	HG00022791	MK954952	Histogenetics, Ossining, USA
A*02:01:01:83	HG00022795	MK954956	Histogenetics, Ossining, USA
A*02:01:01:84	HG00022799, HG00023129	MK954960, MN015977	Histogenetics, Ossining, USA
A*02:01:01:85	HG00022803	MK954964	Histogenetics, Ossining, USA
A*02:01:01:86	HG00022807	MK954968	Histogenetics, Ossining, USA
A*02:01:01:87	HG00022823	MK954984	Histogenetics, Ossining, USA
A*02:01:01:88	HG00022828, HG00023203, HG00023280	MK954989, MN016053, MN016135	Histogenetics, Ossining, USA
A*02:01:01:89	HG00022832, HG00022866, HG00023195, HG00023253	MK954993, MK955028, MN016045, MN016105	Histogenetics, Ossining, USA
A*02:01:01:90	HG00022869	MK955031	Histogenetics, Ossining, USA
A*02:01:01:91	HG00022882	MK955044	Histogenetics, Ossining, USA
A*02:01:01:92	HG00022883, HG00025000	MK955045, MN053445	Histogenetics, Ossining, USA
A*02:01:01:93	HG00022890	MK955052	Histogenetics, Ossining, USA
A*02:01:01:94	HG00022891	MK955053	Histogenetics, Ossining, USA
A*02:01:01:95	HG00022892, HG00023117, HG00023136, HG00023174	MK955054, MN015965, MN015984, MN016023	Histogenetics, Ossining, USA
A*02:01:01:96	HG00022905	MK955067	Histogenetics, Ossining, USA
A*02:01:01:97	HG00022909, HG00022916, HG00023000	MK955071, MK955078, MN015848	Histogenetics, Ossining, USA
A*02:01:01:98	HG00022915	MK955077	Histogenetics, Ossining, USA
A*02:01:01:99	HG00022947	MK955109	Histogenetics, Ossining, USA
A*02:01:02:02	HG00022944	MK955106	Histogenetics, Ossining, USA
A*02:01:169	HG00019145	MK143617	Histogenetics, Ossining, USA
A*02:01:170	HG00022583	MK920331	Histogenetics, Ossining, USA
A*02:01:171	2018-271-00973	MN154481	Jonathan Williams, Burlington, USA
A*02:01:172	HG00025119	MN206079	Histogenetics, Ossining, USA
A*02:02:01:05	HG00022737	MK954896	Histogenetics, Ossining, USA
A*02:03:10	HG00025089	MN115457	Histogenetics, Ossining, USA
A*02:05:01:03	HG00022746	MK954906	Histogenetics, Ossining, USA
A*02:05:01:04	HG00022792	MK954953	Histogenetics, Ossining, USA
A*02:05:01:05	HG00022877	MK955039	Histogenetics, Ossining, USA
A*02:05:01:06	HG00022988	MN015836	Histogenetics, Ossining, USA
A*02:06:01:08	HG00022957	MK955119	Histogenetics, Ossining, USA
A*02:06:01:09	HG00022985	MN015833	Histogenetics, Ossining, USA
A*02:06:01:10	HG00023165	MN016014	Histogenetics, Ossining, USA
A*02:07:01:02	HG00023233	MN016084	Histogenetics, Ossining, USA
A*02:07:14	HG00025121	MN206081	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
A*02:11:01:03	HG00023200	MN016050	Histogenetics, Ossining, USA
A*02:131:01:02	HG00022643, HG00023246	MK938137, MN016098	Histogenetics, Ossining, USA
A*02:131:01:03	HG00022654	MK938149	Histogenetics, Ossining, USA
A*02:17:02:02	HG00022634, HG00022969	MK938128, MK955134	Histogenetics, Ossining, USA
A*02:49:02	HG00022507	MK890176	Histogenetics, Ossining, USA
A*02:878	BY01814	MK990566	Carolyn K Hurley, Washington DC, USA
A*02:879N	BY01815	MN013376	Carolyn K Hurley, Washington DC, USA
A*02:880N	HG00020061	MK442160	Histogenetics, Ossining, USA
A*02:881	HG00022349	MK843984	Histogenetics, Ossining, USA
A*02:882	HG00022350	MK843985	Histogenetics, Ossining, USA
A*02:883	HG00022512	MK890181	Histogenetics, Ossining, USA
A*02:884	HG00022566	MK920313	Histogenetics, Ossining, USA
A*02:885	HG00023269	MN016122	Histogenetics, Ossining, USA
A*02:886	HG00023275, HG00023276	MN016130, MN016131	Histogenetics, Ossining, USA
A*02:887N	HG00025006	MN053451	Histogenetics, Ossining, USA
A*02:888	JXZJ20180117003, JXZJ20180211005	MN066308	Faming Zhu, Hangzhou, China
A*02:889	MN381	MN184642	Wangxia Li, Wuhan, China
A*02:890	E1334, E1342	MN197536	Vinicius Stelet, Rio de Janeiro, Brazil
A*02:891	P1779914088B	MN203113	Jonathan Downing, Perth, Australia
A*02:892	2018-271-01004	MN154496	Jonathan Williams, Burlington, USA
A*02:893	HG00025076	MN115444	Histogenetics, Ossining, USA
A*02:894	HG00025101	MN136785	Histogenetics, Ossining, USA
A*02:895N	HG00025102	MN136786	Histogenetics, Ossining, USA
A*02:896N	HG00025107	MN136791	Histogenetics, Ossining, USA
A*02:897	XIANBC0006	MN295061	Jun Qi, Xian, China
A*02:898	XIANBC0007	MN295062	Jun Qi, Xian, China
A*02:899	XIANBC0008	MN295063	Jun Qi, Xian, China
A*03:01:01:27	HG00017335, HG00023015	MK938108, MN015863	Histogenetics, Ossining, USA
A*03:01:01:28	HG00022620	MK938113	Histogenetics, Ossining, USA
A*03:01:01:29	HG00022693, HG00023177	MK954851, MN016026	Histogenetics, Ossining, USA
A*03:01:01:30	HG00022758	MK954918	Histogenetics, Ossining, USA
A*03:01:01:31	HG00022818	MK954979	Histogenetics, Ossining, USA
A*03:01:01:32	HG00022878	MK955040	Histogenetics, Ossining, USA
A*03:01:01:33	HG00022895	MK955057	Histogenetics, Ossining, USA
A*03:01:01:34	HG00022930	MK955092	Histogenetics, Ossining, USA
A*03:01:01:35	HG00022954	MK955116	Histogenetics, Ossining, USA
A*03:01:01:36	HG00022958	MK955121	Histogenetics, Ossining, USA
A*03:01:01:37	HG00022996	MN015844	Histogenetics, Ossining, USA
A*03:01:01:38	HG00023021	MN015869	Histogenetics, Ossining, USA
A*03:01:01:39	HG00023023	MN015871	Histogenetics, Ossining, USA
A*03:01:01:40	HG00023033	MN015881	Histogenetics, Ossining, USA
A*03:01:01:41	HG00023070	MN015918	Histogenetics, Ossining, USA
A*03:01:01:42	HG00023081	MN015929	Histogenetics, Ossining, USA
A*03:01:01:43	HG00023087, HG00023090	MN015935, MN015938	Histogenetics, Ossining, USA
A*03:01:01:44	HG00023097	MN015945	Histogenetics, Ossining, USA
A*03:01:01:45	HG00023160	MN016009	Histogenetics, Ossining, USA
A*03:01:01:46	HG00023173	MN016022	Histogenetics, Ossining, USA
A*03:01:01:47	BY01832	MN128865	Carolyn K Hurley, Washington DC, USA
A*03:01:01:48	HG00022607, HG00022666, HG00022756, HG00022858, HG00023213, HG00023244	MK938098, MK938161, MK954916, MK955019, MN016064, MN016096	Histogenetics, Ossining, USA
A*03:01:01:49	HG00022688	MK954846	Histogenetics, Ossining, USA
A*03:01:01:50	HG00022784	MK954945	Histogenetics, Ossining, USA
A*03:01:01:51	HG00022835	MK954996	Histogenetics, Ossining, USA
A*03:01:01:52	HG00022837	MK954998	Histogenetics, Ossining, USA
A*03:01:01:53	HG00025109	MN166909	Histogenetics, Ossining, USA
A*03:01:79:02	HG00025084	MN115452	Histogenetics, Ossining, USA
A*03:01:86	HG00022508	MK890177	Histogenetics, Ossining, USA
A*03:01:87	HG00022565, HG00022571	MK920312, MK920318	Histogenetics, Ossining, USA
A*03:01:88	2018-271-01082	MN154531	Jonathan Williams, Burlington, USA
A*03:370	HG00022577	MK920325	Histogenetics, Ossining, USA
A*03:371	HG00023248	MN016100	Histogenetics, Ossining, USA
A*03:372	3121986	MN135638	Antonio Balas, Madrid, Spain
A*03:373	2018-271-01005	MN154497	Jonathan Williams, Burlington, USA
A*03:374N	HG00025383	MN251784	Histogenetics, Ossining, USA
A*03:62:01:02	HG00023157	MN016006	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
A*11:01:01:16	JEV1079	MK784059	Li Shi, Kunming, China
A*11:01:01:17	HG00022595	MK938086	Histogenetics, Ossining, USA
A*11:01:01:18	HG00022627	MK938121	Histogenetics, Ossining, USA
A*11:01:01:19	HG00022649	MK938144	Histogenetics, Ossining, USA
A*11:01:01:20	HG00022685	MK954843	Histogenetics, Ossining, USA
A*11:01:01:21	HG00022698, HG00022879, HG00022897, HG00023131	MK954856, MK955041, MK955059, MN015979	Histogenetics, Ossining, USA
A*11:01:01:22	HG00022705, HG00023215	MK954863, MN016066	Histogenetics, Ossining, USA
A*11:01:01:23	HG00022716	MK954874	Histogenetics, Ossining, USA
A*11:01:01:24	HG00022732	MK954891	Histogenetics, Ossining, USA
A*11:01:01:25	HG00022733, HG00022826, HG00023006, HG00023055, HG00023153, HG00023202	MK954892, MK954987, MN015854, MN015903, MN016002, MN016052	Histogenetics, Ossining, USA
A*11:01:01:25	NG01_CR_160C	MN148776	Uma Kanga, New Delhi, India
A*11:01:01:26	HG00022743	MK954902	Histogenetics, Ossining, USA
A*11:01:01:27	HG00022748, HG00022911, HG00023100	MK954908, MK955073, MN015948	Histogenetics, Ossining, USA
A*11:01:01:28	HG00022755	MK954915	Histogenetics, Ossining, USA
A*11:01:01:29	HG00022806	MK954967	Histogenetics, Ossining, USA
A*11:01:01:30	HG00022819	MK954980	Histogenetics, Ossining, USA
A*11:01:01:31	HG00022870	MK955032	Histogenetics, Ossining, USA
A*11:01:01:32	HG00022889	MK955051	Histogenetics, Ossining, USA
A*11:01:01:33	HG00022894	MK955056	Histogenetics, Ossining, USA
A*11:01:01:34	HG00023035	MN015883	Histogenetics, Ossining, USA
A*11:01:01:35	HG00023077	MN015925	Histogenetics, Ossining, USA
A*11:01:01:36	HG00023201	MN016051	Histogenetics, Ossining, USA
A*11:01:01:37	HG00023204	MN016054	Histogenetics, Ossining, USA
A*11:01:01:38	HG00023222	MN016073	Histogenetics, Ossining, USA
A*11:01:01:39	HG00023252	MN016104	Histogenetics, Ossining, USA
A*11:01:01:40	HG00023267	MN016120	Histogenetics, Ossining, USA
A*11:01:01:41	HG00022867	MK955029	Histogenetics, Ossining, USA
A*11:01:96	900611890107100	MN055487	Faming Zhu, Hangzhou, China
A*11:01:97	HG00025003	MN053448	Histogenetics, Ossining, USA
A*11:01:98	P131476705Z	MK341695	Jonathan Downing, Perth, Australia
A*11:01:99	19214074	MN240558	Daniel Fuerst, Ulm, Germany
A*11:02:01:02	HG00022913	MK955075	Histogenetics, Ossining, USA
A*11:350	HG00022578	MK920326	Histogenetics, Ossining, USA
A*11:351Q	HG00023266	MN016118	Histogenetics, Ossining, USA
A*11:352	HG00023287	MN016142	Histogenetics, Ossining, USA
A*11:353	P189239336F	MN182754	Jonathan Downing, Perth, Australia
A*11:354	2018-271-01022	MN154504	Jonathan Williams, Burlington, USA
A*23:01:01:06	HG00022611	MK938102	Histogenetics, Ossining, USA
A*23:01:01:07	HG00022761	MK954921	Histogenetics, Ossining, USA
A*23:01:01:08	HG00022873, HG00023171, HG00023224	MK955035, MN016020, MN016075	Histogenetics, Ossining, USA
A*23:01:01:09	HG00022907	MK955069	Histogenetics, Ossining, USA
A*23:01:01:10	HG00023084	MN015932	Histogenetics, Ossining, USA
A*23:01:01:11	HG00023106	MN015954	Histogenetics, Ossining, USA
A*23:01:01:12	HG00023126	MN015974	Histogenetics, Ossining, USA
A*23:01:01:13	HG00023281	MN016136	Histogenetics, Ossining, USA
A*23:01:01:14	HG00022842	MK955003	Histogenetics, Ossining, USA
A*23:100	2018-271-01074	MN154526	Jonathan Williams, Burlington, USA
A*23:101	2018-271-01034	MN154509	Jonathan Williams, Burlington, USA
A*23:102	HG00025091	MN115459	Histogenetics, Ossining, USA
A*23:17:02	HG00025082	MN115450	Histogenetics, Ossining, USA
A*23:97	E1746	MN197537	Vinicius Stelet, Rio de Janeiro, Brazil
A*23:98	2018-271-00971	MN154479	Jonathan Williams, Burlington, USA
A*23:99	2018-271-01119	MN154558	Jonathan Williams, Burlington, USA
A*24:02:01:01	65161816412	MK860799	Gerald Bertrand, Rennes Cedex, France
A*24:02:01:23	HG00022590	MK938079	Histogenetics, Ossining, USA
A*24:02:01:24	HG00022613	MK938104	Histogenetics, Ossining, USA
A*24:02:01:25	HG00022628	MK938122	Histogenetics, Ossining, USA
A*24:02:01:26	HG00022641, HG00022888, HG00023182, HG00023225	MK938135, MK955050, MN016031, MN016076	Histogenetics, Ossining, USA
A*24:02:01:27	HG00022650	MK938145	Histogenetics, Ossining, USA
A*24:02:01:28	HG00022679	MK938174	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
A*24:02:01:29	HG00022692, HG00022936	MK954850, MK955098	Histogenetics, Ossining, USA
A*24:02:01:30	HG00022699	MK954857	Histogenetics, Ossining, USA
A*24:02:01:31	HG00022709	MK954867	Histogenetics, Ossining, USA
A*24:02:01:32	HG00022715	MK954873	Histogenetics, Ossining, USA
A*24:02:01:33	HG00022762, HG00023194	MK954922, MN016044	Histogenetics, Ossining, USA
A*24:02:01:34	HG00022769, HG00022781	MK954929, MK954942	Histogenetics, Ossining, USA
A*24:02:01:35	HG00022776	MK954937	Histogenetics, Ossining, USA
A*24:02:01:36	HG00022787, HG00022898, HG00023148	MK954948, MK955060, MN015997	Histogenetics, Ossining, USA
A*24:02:01:37	HG00022815	MK954976	Histogenetics, Ossining, USA
A*24:02:01:38	HG00022852	MK955013	Histogenetics, Ossining, USA
A*24:02:01:39	HG00022863	MK955025	Histogenetics, Ossining, USA
A*24:02:01:40	HG00022868	MK955030	Histogenetics, Ossining, USA
A*24:02:01:41	HG00022893	MK955055	Histogenetics, Ossining, USA
A*24:02:01:42	HG00022927	MK955089	Histogenetics, Ossining, USA
A*24:02:01:43	HG00022934	MK955096	Histogenetics, Ossining, USA
A*24:02:01:44	HG00022941	MK955103	Histogenetics, Ossining, USA
A*24:02:01:45	HG00022943	MK955105	Histogenetics, Ossining, USA
A*24:02:01:46	HG00023009, HG00023082	MN015857, MN015930	Histogenetics, Ossining, USA
A*24:02:01:47	HG00023010	MN015858	Histogenetics, Ossining, USA
A*24:02:01:48	HG00023032	MN015880	Histogenetics, Ossining, USA
A*24:02:01:49	HG00023140	MN015989	Histogenetics, Ossining, USA
A*24:02:01:50	HG00023150	MN015999	Histogenetics, Ossining, USA
A*24:02:01:51	HG00023154	MN016003	Histogenetics, Ossining, USA
A*24:02:01:52	HG00023210	MN016061	Histogenetics, Ossining, USA
A*24:02:01:53	HG00023234	MN016085	Histogenetics, Ossining, USA
A*24:02:01:54	HG00023242	MN016094	Histogenetics, Ossining, USA
A*24:02:01:55	HG00022632, HG00022658, HG00022711, HG00022720, HG00022786, HG00022816, HG00022829, HG00022979, HG00022987, HG00022992, HG00023029, HG00023178, HG00023196	MK938126, MK938153, MK954869, MK954878, MK954947, MK954977, MK954990, MK955144, MN015835, MN015840, MN015877, MN016027, MN016046	Histogenetics, Ossining, USA
A*24:02:01:56	HG00022726, HG00023172, HG00023272	MK954885, MN016021, MN016127	Histogenetics, Ossining, USA
A*24:02:01:57	HG00022736	MK954895	Histogenetics, Ossining, USA
A*24:02:01:58	HG00022774	MK954935	Histogenetics, Ossining, USA
A*24:02:01:59	HG00022825	MK954986	Histogenetics, Ossining, USA
A*24:02:01:60	HG00022831, HG00023104	MK954992, MN015952	Histogenetics, Ossining, USA
A*24:02:01:61	HG00022857	MK955018	Histogenetics, Ossining, USA
A*24:02:01:62	HG00023139	MN015988	Histogenetics, Ossining, USA
A*24:02:01:63	HG00023199	MN016049	Histogenetics, Ossining, USA
A*24:02:01:64	HG00022757	MK954917	Histogenetics, Ossining, USA
A*24:02:115:02	HG00022511	MK890180	Histogenetics, Ossining, USA
A*24:02:129	900611890118600	MN055489	Faming Zhu, Hangzhou, China
A*24:02:130	HG00022579	MK920327	Histogenetics, Ossining, USA
A*24:02:131	HLA-UERJ-4523443	MN125337	Romulo Vianna, Rio de Janeiro, Brazil
A*24:02:132	HG00025093	MN115461	Histogenetics, Ossining, USA
A*24:02:40:02	HG00023028	MN015876	Histogenetics, Ossining, USA
A*24:07:01:02	HG00017186, HG00022684, HG00022754, HG00022764, HG00022773, HG00022817, HG00022853, HG00022999, HG00023024, HG00023043, HG00023111, HG00023183, HG00023216, HG00023264	MK938120, MK954842, MK954914, MK954924, MK954933, MK954978, MK955014, MN015847, MN015872, MN015891, MN015959, MN016032, MN016067, MN016116	Histogenetics, Ossining, USA
A*24:07:01:03	HG00022633, HG00022648, HG00022659, HG00022670, HG00022694, HG00022752, HG00022782, HG00022983, HG00022995, HG00023066, HG00023067, HG00023068, HG00023137, HG00023187	MK938127, MK938143, MK938154, MK938165, MK954852, MK954912, MK954943, MN015831, MN015843, MN015914, MN015915, MN015916, MN015986, MN016036	Histogenetics, Ossining, USA
A*24:10:01:02	HG00022626	MK938119	Histogenetics, Ossining, USA
A*24:472	31713	MN019563	Kelly Ingram, Winston-Salem, USA
A*24:473Q	HG00018725	MK032359	Histogenetics, Ossining, USA
A*24:474	HG00022504	MK890173	Histogenetics, Ossining, USA
A*24:475	AN296694	MN128718	Elena Longhi, Milano, Italy
A*24:476	P099900334Z	MN203112	Jonathan Downing, Perth, Australia
A*24:477	HG00025079	MN115447	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
A*25:01:01:06	HG00022997	MN015845	Histogenetics, Ossining, USA
A*25:01:01:07	HG00023206	MN016057	Histogenetics, Ossining, USA
A*25:64	81198744	MK796846	Daniel Fuerst, Ulm, Germany
A*26:01:01:14	HG00016832, HG00023175, HG00023241	MK955020, MN016024, MN016093	Histogenetics, Ossining, USA
A*26:01:01:15	HG00022655	MK938150	Histogenetics, Ossining, USA
A*26:01:01:16	HG00022673, HG00022914, HG00022922, HG00022973	MK938168, MK955076, MK955084, MK955138	Histogenetics, Ossining, USA
A*26:01:01:17	HG00022771	MK954931	Histogenetics, Ossining, USA
A*26:01:01:18	HG00022798, HG00022851, HG00023008, HG00023094, HG00023122, HG00023236	MK954959, MK955012, MN015856, MN015942, MN015970, MN016087	Histogenetics, Ossining, USA
A*26:01:01:19	HG00022820, HG00023263	MK954981, MN016115	Histogenetics, Ossining, USA
A*26:01:01:20	HG00022903	MK955065	Histogenetics, Ossining, USA
A*26:01:01:21	HG00022986	MN015834	Histogenetics, Ossining, USA
A*26:01:01:22	HG00023072, HG00023239	MN015920, MN016090	Histogenetics, Ossining, USA
A*26:01:01:23	HG00023249	MN016101	Histogenetics, Ossining, USA
A*26:01:01:24	BY01723	MK814886	Carolyn K Hurley, Washington DC, USA
A*26:01:01:25	HG00023274	MN016129	Histogenetics, Ossining, USA
A*26:01:01:26	HG00025070	MN075178	Histogenetics, Ossining, USA
A*26:01:01:27	HG00025115	MN178563	Histogenetics, Ossining, USA
A*26:01:61	HG00022352	MK843987	Histogenetics, Ossining, USA
A*26:01:62	P199353513K	MN203115	Jonathan Downing, Perth, Australia
A*26:01:63	0123451	MN276076	Antonio Balas, Madrid, Spain
A*26:03:01:02	HG00023065, HG00023208	MN015913, MN016059	Histogenetics, Ossining, USA
A*26:08:01:02	HG00022598, HG00022604, HG00022617, HG00022671, HG00022780, HG00022844, HG00022938, HG00023001, HG00023076, HG00023176	MK938089, MK938095, MK938109, MK938166, MK954941, MK955005, MK955100, MN015849, MN015924, MN016025	Histogenetics, Ossining, USA
A*26:191N	HG00022570	MK920317	Histogenetics, Ossining, USA
A*26:192	P157990967X	MN227124	Jonathan Downing, Perth, Australia
A*26:193	LPH0001	MN163277	Li Pan, Liaocheng, China
A*26:194	2018-271-01052	MN154517	Jonathan Williams, Burlington, USA
A*29:01:01:04	HG00022640, HG00022653, HG00022706, HG00022723, HG00022925	MK938134, MK938148, MK954864, MK954881, MK955087	Histogenetics, Ossining, USA
A*29:01:01:05	HG00022763, HG00022841, HG00022880, HG00022932, HG00023282	MK954923, MK955002, MK955042, MK955094, MN016137	Histogenetics, Ossining, USA
A*29:01:01:06	HG00023250	MN016102	Histogenetics, Ossining, USA
A*29:02:01:08	HG00022596, HG00022672, HG00022678, HG00022718, HG00022885, HG00022900, HG00022923, HG00022948, HG00022971, HG00022981, HG00023147, HG00023209	MK938087, MK938167, MK938173, MK954876, MK955047, MK955062, MK955085, MK955110, MK955136, MN015829, MN015996, MN016060	Histogenetics, Ossining, USA
A*29:02:01:09	HG00022624, HG00023093	MK938117, MN015941	Histogenetics, Ossining, USA
A*29:02:01:10	HG00022937, HG00023231	MK955099, MN016082	Histogenetics, Ossining, USA
A*29:02:01:11	HG00023091	MN015939	Histogenetics, Ossining, USA
A*29:02:01:12	HG00023118	MN015966	Histogenetics, Ossining, USA
A*29:02:01:13	HG00023285	MN016140	Histogenetics, Ossining, USA
A*29:02:01:14	HG00022675	MK938170	Histogenetics, Ossining, USA
A*29:02:01:15	HG00022687, HG00022729, HG00022788, HG00022861, HG00023061	MK954845, MK954888, MK954949, MK955023, MN015909	Histogenetics, Ossining, USA
A*29:02:01:16	HG00022730	MK954889	Histogenetics, Ossining, USA
A*29:137	2018-271-01109	MN154551	Jonathan Williams, Burlington, USA
A*29:138	2018-271-01008	MN154498	Jonathan Williams, Burlington, USA
A*29:139	HG00023268	MN016121	Histogenetics, Ossining, USA
A*29:140	BY01710	MN255473	Carolyn K Hurley, Washington DC, USA
A*30:01:01:04	HG00022766	MK954926	Histogenetics, Ossining, USA
A*30:01:01:05	HG00022821, HG00022960	MK954982, MK955123	Histogenetics, Ossining, USA
A*30:01:01:06	HG00022920	MK955082	Histogenetics, Ossining, USA
A*30:01:01:07	HG00023018	MN015866	Histogenetics, Ossining, USA
A*30:01:01:08	HG00023027	MN015875	Histogenetics, Ossining, USA
A*30:02:01:07	HG00022637, HG00022779, HG00023031	MK938131, MK954940, MN015879	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
A*30:02:01:08	HG00022701, HG00022989	MK954859, MN015837	Histogenetics, Ossining, USA
A*30:02:01:09	HG00022745	MK954904	Histogenetics, Ossining, USA
A*30:02:01:10	HG00022777	MK954938	Histogenetics, Ossining, USA
A*30:02:01:11	HG00023092	MN015940	Histogenetics, Ossining, USA
A*30:02:01:12	HG00023103	MN015951	Histogenetics, Ossining, USA
A*30:04:03	2018-271-01149	MN154568	Jonathan Williams, Burlington, USA
A*30:159	HLA-UERJ-C2385	MN107034	Romulo Vianna, Rio de Janeiro, Brazil
A*30:160	2018-271-00977	MN154483	Jonathan Williams, Burlington, USA
A*30:161	HG00025116	MN178564	Histogenetics, Ossining, USA
A*30:39:02	2018-271-01060	MN154521	Jonathan Williams, Burlington, USA
A*31:01:02:11	HG00022592, HG00022765	MK938083, MK954925	Histogenetics, Ossining, USA
A*31:01:02:12	HG00022625	MK938118	Histogenetics, Ossining, USA
A*31:01:02:13	HG00022645, HG00022702, HG00022703, HG00022939	MK938139, MK954860, MK954861, MK955101	Histogenetics, Ossining, USA
A*31:01:02:14	HG00022689	MK954847	Histogenetics, Ossining, USA
A*31:01:02:15	HG00022714	MK954872	Histogenetics, Ossining, USA
A*31:01:02:16	HG00022822, HG00022970	MK954983, MK955135	Histogenetics, Ossining, USA
A*31:01:02:17	HG00022908	MK955070	Histogenetics, Ossining, USA
A*31:01:02:18	HG00023095	MN015943	Histogenetics, Ossining, USA
A*31:01:02:19	HG00023189	MN016038	Histogenetics, Ossining, USA
A*31:01:02:20	HG00022759	MK954919	Histogenetics, Ossining, USA
A*31:01:02:21	HG00022849	MK955010	Histogenetics, Ossining, USA
A*31:01:02:22	HG00022933	MK955095	Histogenetics, Ossining, USA
A*31:01:02:23	HG00025063, HG00025103	MN075171, MN136787	Histogenetics, Ossining, USA
A*31:01:36	HG00022581	MK920329	Histogenetics, Ossining, USA
A*31:01:37	2018-271-00957	MN154470	Jonathan Williams, Burlington, USA
A*31:01:38	2018-271-00986	MN154488	Jonathan Williams, Burlington, USA
A*31:04:01:02	HG00022619	MK938112	Histogenetics, Ossining, USA
A*31:161	JRC-D36-105	LC489136	Masahiro Satake, Tokyo, Japan
A*31:162	2018-271-00967	MN154476	Jonathan Williams, Burlington, USA
A*31:163	2018-271-00985	MN154487	Jonathan Williams, Burlington, USA
A*31:164	2018-271-00987	MN154489	Jonathan Williams, Burlington, USA
A*31:165	2018-271-01090	MN154538	Jonathan Williams, Burlington, USA
A*31:166	HG00025086	MN115454	Histogenetics, Ossining, USA
A*31:167	HG00025092	MN115460	Histogenetics, Ossining, USA
A*32:01:01:11	HG00022614	MK938105	Histogenetics, Ossining, USA
A*32:01:01:12	HG00022639	MK938133	Histogenetics, Ossining, USA
A*32:01:01:13	HG00022690, HG00022731, HG00022967	MK954848, MK954890, MK955132	Histogenetics, Ossining, USA
A*32:01:01:14	HG00022700	MK954858	Histogenetics, Ossining, USA
A*32:01:01:15	HG00022845	MK955006	Histogenetics, Ossining, USA
A*32:01:01:16	HG00023049	MN015897	Histogenetics, Ossining, USA
A*32:01:01:17	HG00023168	MN016017	Histogenetics, Ossining, USA
A*32:01:01:18	HG00022642	MK938136	Histogenetics, Ossining, USA
A*32:01:01:19	HG00022644	MK938138	Histogenetics, Ossining, USA
A*32:01:01:20	HG00022717	MK954875	Histogenetics, Ossining, USA
A*32:01:01:21	HG00023232	MN016083	Histogenetics, Ossining, USA
A*32:03:01:02	HG00022721	MK954879	Histogenetics, Ossining, USA
A*32:132N	2018-271-01097	MN154543	Jonathan Williams, Burlington, USA
A*32:133N	NT02260	MN276033	Carolyn K Hurley, Washington DC, USA
A*32:43:02	UOC20180893	MK034298	Elisabetta Durante, Trviso, Italy
A*33:01:01:03	HG00022793, HG00023083	MK954954, MN015931	Histogenetics, Ossining, USA
A*33:01:01:04	HG00023085, HG00023164, HG00023188	MN015933, MN016013, MN016037	Histogenetics, Ossining, USA
A*33:01:01:05	HG00023124	MN015972	Histogenetics, Ossining, USA
A*33:01:01:06	HG00023146	MN015995	Histogenetics, Ossining, USA
A*33:01:01:07	HG00022904	MK955066	Histogenetics, Ossining, USA
A*33:03:01:06	KB301_MLT	MN047296	Uma Kanga, New Delhi, India
A*33:03:01:06	HG00022618, HG00022674	MK938111, MK938169	Histogenetics, Ossining, USA
A*33:03:01:07	HG00022610	MK938101	Histogenetics, Ossining, USA
A*33:03:01:08	HG00022631	MK938125	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
A*33:03:01:09	HG00022707	MK954865	Histogenetics, Ossining, USA
A*33:03:01:10	HG00022753	MK954913	Histogenetics, Ossining, USA
A*33:03:01:11	HG00022783	MK954944	Histogenetics, Ossining, USA
A*33:03:01:12	HG00023040	MN015888	Histogenetics, Ossining, USA
A*33:03:01:13	HG00023053	MN015901	Histogenetics, Ossining, USA
A*33:03:01:14	HG00023155	MN016004	Histogenetics, Ossining, USA
A*33:03:01:15	HG00023214	MN016065	Histogenetics, Ossining, USA
A*33:03:01:16	HG00023237	MN016088	Histogenetics, Ossining, USA
A*33:03:41	HG00022510	MK890179	Histogenetics, Ossining, USA
A*33:03:42	C19-490	MK933280	Eun-Jeong Choi, Seoul, South Korea
A*33:192	HG00022587	MK920335	Histogenetics, Ossining, USA
A*33:193	HG00025077	MN115445	Histogenetics, Ossining, USA
A*34:01:01:03	HG00022680, HG00022681, HG00022682	MK938175, MK938176, MK938177	Histogenetics, Ossining, USA
A*34:01:04	HG00025085	MN115453	Histogenetics, Ossining, USA
A*34:01:05	HG00025118	MN178566	Histogenetics, Ossining, USA
A*34:02:01:03	HG00022910	MK955072	Histogenetics, Ossining, USA
A*66:01:01:03	HG00022978	MK955143	Histogenetics, Ossining, USA
A*66:01:01:04	HG00023046	MN015894	Histogenetics, Ossining, USA
A*66:03:01:03	HG00023042	MN015890	Histogenetics, Ossining, USA
A*66:38	HG00025087	MN115455	Histogenetics, Ossining, USA
A*66:39N	015869865	MN257433	Ornella Senoussi, La Tronche, France
A*68:01:01:04	HG00022676	MK938171	Histogenetics, Ossining, USA
A*68:01:01:05	HG00023005	MN015853	Histogenetics, Ossining, USA
A*68:01:01:06	HG00023158	MN016007	Histogenetics, Ossining, USA
A*68:01:01:07	HG00023159	MN016008	Histogenetics, Ossining, USA
A*68:01:01:08	HG00023284	MN016139	Histogenetics, Ossining, USA
A*68:01:02:10	HG00020383	MK938142	Histogenetics, Ossining, USA
A*68:01:02:11	HG00022646	MK938140	Histogenetics, Ossining, USA
A*68:01:02:12	HG00022789, HG00022946	MK954950, MK955108	Histogenetics, Ossining, USA
A*68:01:02:13	HG00022802, HG00023149	MK954963, MN015998	Histogenetics, Ossining, USA
A*68:01:02:14	HG00022836, HG00022901, HG00023141, HG00023180	MK954997, MK955063, MN015990, MN016029	Histogenetics, Ossining, USA
A*68:01:02:15	HG00023022, HG00023069	MN015870, MN015917	Histogenetics, Ossining, USA
A*68:01:02:16	HG00023056	MN015904	Histogenetics, Ossining, USA
A*68:01:02:17	HG00023089	MN015937	Histogenetics, Ossining, USA
A*68:01:02:18	HG00023098, HG00023143, HG00023228	MN015946, MN015992, MN016079	Histogenetics, Ossining, USA
A*68:01:02:19	HG00023108	MN015956	Histogenetics, Ossining, USA
A*68:01:51	900611890110800	MN055488	Faming Zhu, Hangzhou, China
A*68:01:52	2018-271-01065	MN154522	Jonathan Williams, Burlington, USA
A*68:01:53	HG00025100	MN136784	Histogenetics, Ossining, USA
A*68:02:01:06	HG00022760	MK954920	Histogenetics, Ossining, USA
A*68:02:01:07	HG00022801	MK954962	Histogenetics, Ossining, USA
A*68:02:01:08	HG00022962	MK955125	Histogenetics, Ossining, USA
A*68:02:01:09	HG00023265	MN016117	Histogenetics, Ossining, USA
A*68:02:01:10	HG00022638, HG00022651	MK938132, MK938146	Histogenetics, Ossining, USA
A*68:02:01:11	HG00022809, HG00023221	MK954970, MN016072	Histogenetics, Ossining, USA
A*68:03:01:02	HG00022749	MK954909	Histogenetics, Ossining, USA
A*68:03:01:03	HG00023058	MN015906	Histogenetics, Ossining, USA
A*68:03:01:04	HG00023185	MN016034	Histogenetics, Ossining, USA
A*68:03:01:05	HG00025067	MN075175	Histogenetics, Ossining, USA
A*68:08:01:02	HG00022770, HG00022843	MK954930, MK955004	Histogenetics, Ossining, USA
A*68:222	HG00022580	MK920328	Histogenetics, Ossining, USA
A*68:223	HG00022585	MK920333	Histogenetics, Ossining, USA
A*68:224	HG00023271	MN016125	Histogenetics, Ossining, USA
A*68:225	E1332	MN197535	Vinicius Stelet, Rio de Janeiro, Brazil
A*68:226	2018-271-00982	MN154486	Jonathan Williams, Burlington, USA
A*68:227	HG00023286	MN016141	Histogenetics, Ossining, USA
A*69:07	HG00022586	MK920334	Histogenetics, Ossining, USA
A*69:08	2018-271-01085	MN154534	Jonathan Williams, Burlington, USA
A*74:01:01:06	HG00022738	MK954897	Histogenetics, Ossining, USA
A*74:01:01:07	HG00022998, HG00023054	MN015846, MN015902	Histogenetics, Ossining, USA
A*74:03:01:02	HG00022804	MK954965	Histogenetics, Ossining, USA
A*74:37	HG00025117	MN178565	Histogenetics, Ossining, USA
B*07:02:01:19	HG00023314, HG00023370	MK937973, MK938032	Histogenetics, Ossining, USA
B*07:02:01:20	HG00023324	MK937983	Histogenetics, Ossining, USA
B*07:02:01:21	HG00023326, HG00023542	MK937985, MN003172	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*07:02:01:22	HG00023328	MK937987	Histogenetics, Ossining, USA
B*07:02:01:23	HG00023414	MN003032	Histogenetics, Ossining, USA
B*07:02:01:24	HG00023455	MN003080	Histogenetics, Ossining, USA
B*07:02:01:25	HG00023465	MN003091	Histogenetics, Ossining, USA
B*07:02:01:26	HG00023475, HG00023983	MN003101, MN016464	Histogenetics, Ossining, USA
B*07:02:01:27	HG00023491	MN003118	Histogenetics, Ossining, USA
B*07:02:01:28	HG00023534	MN003164	Histogenetics, Ossining, USA
B*07:02:01:29	HG00023537	MN003167	Histogenetics, Ossining, USA
B*07:02:01:30	HG00023590	MN003221	Histogenetics, Ossining, USA
B*07:02:01:31	HG00023600	MN003231	Histogenetics, Ossining, USA
B*07:02:01:32	HG00023606	MN003237	Histogenetics, Ossining, USA
B*07:02:01:33	HG00023625	MN003256	Histogenetics, Ossining, USA
B*07:02:01:34	HG00023626	MN003257	Histogenetics, Ossining, USA
B*07:02:01:35	HG00023627	MN003258	Histogenetics, Ossining, USA
B*07:02:01:36	HG00023655	MN003286	Histogenetics, Ossining, USA
B*07:02:01:37	HG00023664	MN003295	Histogenetics, Ossining, USA
B*07:02:01:38	HG00023708	MN003340	Histogenetics, Ossining, USA
B*07:02:01:39	HG00023721, HG00023752, HG00023874, HG00023966	MN003353, MN016222, MN016351, MN016447	Histogenetics, Ossining, USA
B*07:02:01:40	HG00023743	MN016213	Histogenetics, Ossining, USA
B*07:02:01:41	HG00023783	MN016254	Histogenetics, Ossining, USA
B*07:02:01:42	HG00023786	MN016257	Histogenetics, Ossining, USA
B*07:02:01:43	HG00023822, HG00023940, HG00023999	MN016297, MN016420, MN016480	Histogenetics, Ossining, USA
B*07:02:01:44	HG00023824	MN016299	Histogenetics, Ossining, USA
B*07:02:01:45	HG00023827, HG00023903	MN016302, MN016381	Histogenetics, Ossining, USA
B*07:02:01:46	HG00023828	MN016303	Histogenetics, Ossining, USA
B*07:02:01:47	HG00023830	MN016305	Histogenetics, Ossining, USA
B*07:02:01:48	HG00023844	MN016319	Histogenetics, Ossining, USA
B*07:02:01:49	HG00023875	MN016352	Histogenetics, Ossining, USA
B*07:02:01:50	HG00023912	MN016391	Histogenetics, Ossining, USA
B*07:02:01:51	HG00023933	MN016413	Histogenetics, Ossining, USA
B*07:02:01:52	HG00023975	MN016456	Histogenetics, Ossining, USA
B*07:02:01:53	HG00023979	MN016460	Histogenetics, Ossining, USA
B*07:02:01:54	HG00023987	MN016468	Histogenetics, Ossining, USA
B*07:02:01:55	HG00024004	MN016486	Histogenetics, Ossining, USA
B*07:02:01:56	HG00023317	MK937976	Histogenetics, Ossining, USA
B*07:02:01:57	HG00023599	MN003230	Histogenetics, Ossining, USA
B*07:02:01:58	HG00024030	MN016513	Histogenetics, Ossining, USA
B*07:02:01:59	HG00025193	MN136823	Histogenetics, Ossining, USA
B*07:02:01:60	HG00025206	MN166921	Histogenetics, Ossining, USA
B*07:02:01:61	HG00025221	MN178579	Histogenetics, Ossining, USA
B*07:02:80	HG00025227	MN206086	Histogenetics, Ossining, USA
B*07:06:01:02	HG00023483, HG00023502, HG00023520, HG00023893, HG00023899, HG00023901	MN003110, MN003129, MN003149, MN016370, MN016377, MN016379	Histogenetics, Ossining, USA
B*07:229:02	HG00022388	MK844024	Histogenetics, Ossining, USA
B*07:386N	HG00020309	MK308955	Histogenetics, Ossining, USA
B*07:387	HG00022385	MK844021	Histogenetics, Ossining, USA
B*07:388	HG00024010	MN016493	Histogenetics, Ossining, USA
B*07:389	P099900385S	MN203117	Jonathan Downing, Perth, Australia
B*07:390	P119901635M	MN203121	Jonathan Downing, Perth, Australia
B*07:391	HG00025127	MN115474	Histogenetics, Ossining, USA
B*07:392	HG00025130	MN115477	Histogenetics, Ossining, USA
B*07:393	HG00025132	MN115479	Histogenetics, Ossining, USA
B*07:394	HG00025141	MN115488	Histogenetics, Ossining, USA
B*07:395	NT02279	MN304949	Carolyn K Hurley, Washington DC, USA
B*08:01:01:17	BY01803	MN013381	Carolyn K Hurley, Washington DC, USA
B*08:01:01:18	HG00018461, HG00019259, HG00020889, HG00023806, HG00023807, HG00023808, HG00023809, HG00023963	MN016283, MN016284, MN016279, MN016278, MN016280, MN016281, MN016282, MN016444	Histogenetics, Ossining, USA
B*08:01:01:19	HG00023424	MN003043	Histogenetics, Ossining, USA
B*08:01:01:20	HG00023450, HG00023650, HG00023716, HG00023821, HG00024014	MN003072, MN003281, MN003348, MN016296, MN016497	Histogenetics, Ossining, USA
B*08:01:01:20	HG00023840	MN016315	Histogenetics, Ossining, USA
B*08:01:01:21	HG00023472	MN003098	Histogenetics, Ossining, USA
B*08:01:01:22	HG00023511	MN003138	Histogenetics, Ossining, USA
B*08:01:01:23	HG00023530	MN003160	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*08:01:01:24	HG00023589, HG00023810, HG00024029	MN003220, MN016285, MN016512	Histogenetics, Ossining, USA
B*08:01:01:25	HG00023624, HG00023848	MN003255, MN016323	Histogenetics, Ossining, USA
B*08:01:01:26	HG00023661	MN003292	Histogenetics, Ossining, USA
B*08:01:01:27	HG00023781	MN016252	Histogenetics, Ossining, USA
B*08:01:01:28	HG00023831	MN016306	Histogenetics, Ossining, USA
B*08:01:01:29	HG00023883	MN016360	Histogenetics, Ossining, USA
B*08:01:01:30	HG00023892	MN016369	Histogenetics, Ossining, USA
B*08:01:01:31	HG00023938	MN016418	Histogenetics, Ossining, USA
B*08:01:01:32	HG00023391	MK938055	Histogenetics, Ossining, USA
B*08:01:01:33	HG00023463	MN003089	Histogenetics, Ossining, USA
B*08:01:01:34	HG00023746, HG00023800	MN016216, MN016271	Histogenetics, Ossining, USA
B*08:01:01:35	HG00023873, HG00023943, HG00023989, HG00025176	MN016350, MN016423, MN016470, MN136806	Histogenetics, Ossining, USA
B*08:01:55	HG00025151	MN115498	Histogenetics, Ossining, USA
B*08:246	HG00022520	MK890157	Histogenetics, Ossining, USA
B*08:247	HG00024015	MN016498	Histogenetics, Ossining, USA
B*08:248	HG00025018	MN053500	Histogenetics, Ossining, USA
B*08:249	E1748	MN304948	Vinicius Stelet, Rio de Janeiro, Brazil
B*13:01:01:03	HG00023333, HG00023474, HG00023486, HG00023632, HG00023634, HG00023977	MK937992, MN003100, MN003113, MN003263, MN003265, MN016458	Histogenetics, Ossining, USA
B*13:01:01:03	NG05_CR_160C	MN148777	Uma Kanga, New Delhi, India
B*13:01:01:04	HG00023384	MK938048	Histogenetics, Ossining, USA
B*13:01:01:05	HG00023667	MN003298	Histogenetics, Ossining, USA
B*13:01:01:06	HG00023377, HG00023645, HG00023969	MK938041, MN003276, MN016450	Histogenetics, Ossining, USA
B*13:01:16	XIANBC0005	MN295060	Jun Qi, Xian, China
B*13:02:01:08	HG00020792	MK938035	Histogenetics, Ossining, USA
B*13:02:01:09	HG00023584, HG00023791	MN003215, MN016262	Histogenetics, Ossining, USA
B*13:02:01:10	HG00023646	MN003277	Histogenetics, Ossining, USA
B*13:02:01:11	HG00023982	MN016463	Histogenetics, Ossining, USA
B*13:02:01:12	HG00023704	MN003336	Histogenetics, Ossining, USA
B*13:02:30	2018-271-01111	MN154552	Jonathan Williams, Burlington, USA
B*13:02:31	2018-271-01094	MN154540	Jonathan Williams, Burlington, USA
B*13:02:32	HG00025159	MN115507	Histogenetics, Ossining, USA
B*13:137N	HG00022516	MK890153	Histogenetics, Ossining, USA
B*13:138	HG00023302	MK920354	Histogenetics, Ossining, USA
B*13:139N	2019-1830	MN092714	Mauro Castagnetta, Genova, Italy
B*14:01:01:04	HG00023335, HG00023492	MK937994, MN003119	Histogenetics, Ossining, USA
B*14:01:01:05	HG00023432, HG00023478, HG00023563, HG00023603, HG00023617, HG00023853, HG00023896, HG00023917	MN003052, MN003104, MN003193, MN003234, MN003248, MN016328, MN016373, MN016396	Histogenetics, Ossining, USA
B*14:01:01:06	HG00023524	MN003154	Histogenetics, Ossining, USA
B*14:01:01:07	HG00023671	MN003302	Histogenetics, Ossining, USA
B*14:02:01:07	HG00023392	MK938056	Histogenetics, Ossining, USA
B*14:02:01:08	HG00023399	MK938063	Histogenetics, Ossining, USA
B*14:02:01:09	HG00023498, HG00023597, HG00023739, HG00023936, HG00023950	MN003125, MN003228, MN016209, MN016416, MN016430	Histogenetics, Ossining, USA
B*14:02:01:10	HG00023525, HG00024049	MN003155, MN016533	Histogenetics, Ossining, USA
B*14:02:01:11	HG00023568	MN003199	Histogenetics, Ossining, USA
B*14:02:01:12	HG00023641, HG00023652, HG00024045, HG00024046	MN003272, MN003283, MN016529, MN016530	Histogenetics, Ossining, USA
B*14:02:01:13	HG00023761	MN016232	Histogenetics, Ossining, USA
B*14:02:01:14	HG00023971	MN016452	Histogenetics, Ossining, USA
B*14:02:01:15	HG00024007	MN016489	Histogenetics, Ossining, USA
B*14:02:01:16	HG00024025	MN016508	Histogenetics, Ossining, USA
B*14:02:01:17	HG00023444, HG00023485, HG00023909, HG00024023	MN003065, MN003112, MN016388, MN016506	Histogenetics, Ossining, USA
B*14:02:01:18	HG00023741	MN016211	Histogenetics, Ossining, USA
B*14:83	HG00023303	MK920355	Histogenetics, Ossining, USA
B*14:84	HG00024022	MN016505	Histogenetics, Ossining, USA
B*14:85N	HG00024031	MN016514	Histogenetics, Ossining, USA
B*14:86	BY01712	MN276021	Carolyn K Hurlley, Washington DC, USA
B*15:01:01:21	HG00020017	MN016347	Histogenetics, Ossining, USA
B*15:01:01:22	HG00023305	MK937963	Histogenetics, Ossining, USA
B*15:01:01:23	HG00023334	MK937993	Histogenetics, Ossining, USA
B*15:01:01:24	HG00023356	MK938016	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*15:01:01:25	HG00023362	MK938023	Histogenetics, Ossining, USA
B*15:01:01:26	HG00023470	MN003096	Histogenetics, Ossining, USA
B*15:01:01:27	HG00023562	MN003192	Histogenetics, Ossining, USA
B*15:01:01:28	HG00023616	MN003247	Histogenetics, Ossining, USA
B*15:01:01:29	HG00023620	MN003251	Histogenetics, Ossining, USA
B*15:01:01:30	HG00023709	MN003341	Histogenetics, Ossining, USA
B*15:01:01:31	HG00023734	MN016202	Histogenetics, Ossining, USA
B*15:01:01:32	HG00024018	MN016501	Histogenetics, Ossining, USA
B*15:01:01:33	HG00025213	MN178571	Histogenetics, Ossining, USA
B*15:01:59	P189445353M	MN203116	Jonathan Downing, Perth, Australia
B*15:01:60	HG00025194	MN136824	Histogenetics, Ossining, USA
B*15:02:01:04	NG11_ZN_191C	MN187917	Uma Kanga, New Delhi, India
B*15:03:01:04	HG00023309	MK937967	Histogenetics, Ossining, USA
B*15:03:01:05	HG00023518, HG00023607, HG00023723, HG00023782, HG00024013	MN003146, MN003238, MN003355, MN016253, MN016496	Histogenetics, Ossining, USA
B*15:03:01:06	HG00023910	MN016389	Histogenetics, Ossining, USA
B*15:03:01:07	HG00023605	MN003236	Histogenetics, Ossining, USA
B*15:04:01:03	HG00023643	MN003274	Histogenetics, Ossining, USA
B*15:07:01:03	HG00023490	MN003117	Histogenetics, Ossining, USA
B*15:07:01:04	HG00023785	MN016256	Histogenetics, Ossining, USA
B*15:07:01:05	BY01827	MN082622	Carolyn K Hurley, Washington DC, USA
B*15:10:01:03	HG00023351, HG00023495	MK938011, MN003122	Histogenetics, Ossining, USA
B*15:10:01:04	HG00023408	MK938073	Histogenetics, Ossining, USA
B*15:10:01:05	HLA-UERJ-97826	MN208455	Romulo Vianna, Rio de Janeiro, Brazil
B*15:10:01:06	HG00023660	MN003291	Histogenetics, Ossining, USA
B*15:10:05	HG00025197	MN136827	Histogenetics, Ossining, USA
B*15:15:01:02	HG00023675	MN003306	Histogenetics, Ossining, USA
B*15:16:01:04	HG00023446	MN003068	Histogenetics, Ossining, USA
B*15:16:01:05	HG00023719	MN003351	Histogenetics, Ossining, USA
B*15:16:01:06	HG00025181	MN136811	Histogenetics, Ossining, USA
B*15:16:01:07	HG00025182	MN136812	Histogenetics, Ossining, USA
B*15:18:01:06	HG00023363	MK938024	Histogenetics, Ossining, USA
B*15:18:01:06	HG00023366	MK938028	Histogenetics, Ossining, USA
B*15:18:01:07	HG00023390	MK938054	Histogenetics, Ossining, USA
B*15:18:01:08	HG00023657	MN003288	Histogenetics, Ossining, USA
B*15:245:02Q	MN255	MN180199	Wangxia Li, Wuhan, China
B*15:25:01:02	HG00023357	MK938018	Histogenetics, Ossining, USA
B*15:29:01:02	HG00023691	MN003323	Histogenetics, Ossining, USA
B*15:30:01:03	HG00023676, HG00023988, HG00024024	MN003307, MN016469, MN016507	Histogenetics, Ossining, USA
B*15:31:01:02	HLA-UERJ-100682	MN208453	Romulo Vianna, Rio de Janeiro, Brazil
B*15:31:01:03	HG00023535, HG00023757, HG00023919, HG00025218	MN003165, MN016228, MN016398, MN178576	Histogenetics, Ossining, USA
B*15:39:01:02	HG00023507, HG00023573, HG00023772, HG00023817, HG00023952, HG00023960, HG00024001	MN003134, MN003204, MN016243, MN016292, MN016432, MN016441, MN016483	Histogenetics, Ossining, USA
B*15:548	JEV0706	MK784058	Li Shi, Kunming, China
B*15:549N	2019-1194	MN025524	Mauro Castagnetta, Genova, Italy
B*15:550	HG00022374	MK844010	Histogenetics, Ossining, USA
B*15:551	HG00022513	MK890150	Histogenetics, Ossining, USA
B*15:552	HG00023291	MK920342	Histogenetics, Ossining, USA
B*15:553	HG00024034	MN016518	Histogenetics, Ossining, USA
B*15:554	1746691	MN217400	Gisele Rampim, Sao Paulo, Brazil
B*15:554	E1330, E1563, E1564, E1569	MN233337	Vinicius Stelet, Rio de Janeiro, Brazil
B*15:555	E1344	MN233340	Vinicius Stelet, Rio de Janeiro, Brazil
B*15:556	2018-271-00976	MN154482	Jonathan Williams, Burlington, USA
B*15:78:01:02	HG00023972	MN016453	Histogenetics, Ossining, USA
B*15:83:01:02	HG00023320	MK937979	Histogenetics, Ossining, USA
B*18:01:01:24	HG00013096	MK938069	Histogenetics, Ossining, USA
B*18:01:01:25	HG00020007	MN003145	Histogenetics, Ossining, USA
B*18:01:01:26	HG00023358, HG00023560	MK938019, MN003190	Histogenetics, Ossining, USA
B*18:01:01:27	HG00023385	MK938049	Histogenetics, Ossining, USA
B*18:01:01:28	HG00023406	MK938071	Histogenetics, Ossining, USA
B*18:01:01:29	HG00023425	MN003044	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*18:01:01:30	HG00023430, HG00023642, HG00024042	MN003050, MN003273, MN016526	Histogenetics, Ossining, USA
B*18:01:01:31	HG00023480, HG00023565, HG00023582, HG00023854	MN003106, MN003195, MN003213, MN016329	Histogenetics, Ossining, USA
B*18:01:01:32	HG00023547	MN003177	Histogenetics, Ossining, USA
B*18:01:01:33	HG00023659	MN003290	Histogenetics, Ossining, USA
B*18:01:01:34	HG00023665	MN003296	Histogenetics, Ossining, USA
B*18:01:01:35	HG00023738, HG00023914	MN016207, MN016393	Histogenetics, Ossining, USA
B*18:01:01:36	HG00023765	MN016236	Histogenetics, Ossining, USA
B*18:01:01:37	HG00023805	MN016277	Histogenetics, Ossining, USA
B*18:01:01:38	HG00023845	MN016320	Histogenetics, Ossining, USA
B*18:01:01:39	HG00023885, HG00023932	MN016362, MN016412	Histogenetics, Ossining, USA
B*18:01:01:40	HG00023920	MN016399	Histogenetics, Ossining, USA
B*18:01:01:41	HG00023924	MN016403	Histogenetics, Ossining, USA
B*18:01:01:42Q	HG00025008	MN053489	Histogenetics, Ossining, USA
B*18:01:01:43	HG00025009	MN053490	Histogenetics, Ossining, USA
B*18:01:01:44	HG00023795, HG00023846, HG00025123	MN016266, MN016321, MN075166	Histogenetics, Ossining, USA
B*18:01:01:45	HG00023796	MN016267	Histogenetics, Ossining, USA
B*18:01:01:46	HG00025207	MN166922	Histogenetics, Ossining, USA
B*18:01:33:02	HG00025228	MN206087	Histogenetics, Ossining, USA
B*18:01:40	HG00025143	MN115490	Histogenetics, Ossining, USA
B*18:03:01:02	HG00023555, HG00024020	MN003185, MN016503	Histogenetics, Ossining, USA
B*18:186	HG00024028	MN016511	Histogenetics, Ossining, USA
B*18:187	HG00025026	MN053508	Histogenetics, Ossining, USA
B*18:188	P191115347A	MN203120	Jonathan Downing, Perth, Australia
B*18:189	2018-271-00994	MN154492	Jonathan Williams, Burlington, USA
B*18:98:02	2018-271-00961	MN154474	Jonathan Williams, Burlington, USA
B*18:98:02	HG00025171	MN136801	Histogenetics, Ossining, USA
B*27:05:02:12	HG00023329, HG00023371, HG00023629	MK937988, MK938033, MN003260	Histogenetics, Ossining, USA
B*27:05:02:13	HG00023331	MK937990	Histogenetics, Ossining, USA
B*27:05:02:14	HG00023388, HG00023415	MK938052, MN003033	Histogenetics, Ossining, USA
B*27:05:02:15	HG00023419	MN003038	Histogenetics, Ossining, USA
B*27:05:02:16	HG00023683, HG00023685, HG00023759, HG00024035	MN003315, MN003317, MN016230, MN016519	Histogenetics, Ossining, USA
B*27:05:02:17	HG00023859	MN016334	Histogenetics, Ossining, USA
B*27:05:02:18	HG00023871	MN016346	Histogenetics, Ossining, USA
B*27:05:02:19	HG00023928	MN016408	Histogenetics, Ossining, USA
B*27:05:02:20	HG00025198	MN136828	Histogenetics, Ossining, USA
B*27:05:18:02	HG00023732	MN016200	Histogenetics, Ossining, USA
B*27:12:01:03	HG00023577, HG00023670	MN003208, MN003301	Histogenetics, Ossining, USA
B*27:19:01:02	HG00023890	MN016367	Histogenetics, Ossining, USA
B*27:216	HG00023289	MK920340	Histogenetics, Ossining, USA
B*27:217	HG00023322	MK937981	Histogenetics, Ossining, USA
B*27:218	HG00023402	MK938066	Histogenetics, Ossining, USA
B*27:219	2018-271-01033	MN154508	Jonathan Williams, Burlington, USA
B*27:220	HG00025021	MN053503	Histogenetics, Ossining, USA
B*27:221	HG00025225	MN178583	Histogenetics, Ossining, USA
B*35:01:01:20	HG00023316	MK937975	Histogenetics, Ossining, USA
B*35:01:01:21	HG00023386, HG00023579, HG00023964	MK938050, MN003210, MN016445	Histogenetics, Ossining, USA
B*35:01:01:22	HG00023397	MK938061	Histogenetics, Ossining, USA
B*35:01:01:23	HG00023412	MN003030	Histogenetics, Ossining, USA
B*35:01:01:24	HG00023431, HG00023700	MN003051, MN003332	Histogenetics, Ossining, USA
B*35:01:01:25	HG00023473	MN003099	Histogenetics, Ossining, USA
B*35:01:01:26	HG00023493, HG00023619	MN003120, MN003250	Histogenetics, Ossining, USA
B*35:01:01:27	HG00023505, HG00023688, HG00023755	MN003132, MN003320, MN016225	Histogenetics, Ossining, USA
B*35:01:01:28	HG00023613	MN003244	Histogenetics, Ossining, USA
B*35:01:01:29	HG00023697, HG00023711	MN003329, MN003343	Histogenetics, Ossining, USA
B*35:01:01:30	HG00023710	MN003342	Histogenetics, Ossining, USA
B*35:01:01:31	HG00023712	MN003344	Histogenetics, Ossining, USA
B*35:01:01:32	HG00023713	MN003345	Histogenetics, Ossining, USA
B*35:01:01:33	HG00023751	MN016221	Histogenetics, Ossining, USA
B*35:01:01:34	HG00023762	MN016233	Histogenetics, Ossining, USA
B*35:01:01:35	HG00023794	MN016265	Histogenetics, Ossining, USA
B*35:01:01:36	HG00023857	MN016332	Histogenetics, Ossining, USA
B*35:01:01:37	HG00023862	MN016337	Histogenetics, Ossining, USA
B*35:01:01:38	HG00023904	MN016382	Histogenetics, Ossining, USA
B*35:01:01:39	HG00023913	MN016392	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*35:01:01:40	24807161	MN241815	Luis Alberto, Albacete, Spain
B*35:01:01:41	HG00023353	MK938013	Histogenetics, Ossining, USA
B*35:01:01:42	HG00023497	MN003124	Histogenetics, Ossining, USA
B*35:01:01:43	HG00023861	MN016336	Histogenetics, Ossining, USA
B*35:01:01:44	HG00023881	MN016358	Histogenetics, Ossining, USA
B*35:01:01:45	HG00025166	MN136796	Histogenetics, Ossining, USA
B*35:01:01:46	HG00025179	MN136809	Histogenetics, Ossining, USA
B*35:02:01:05	HG00023780	MN016251	Histogenetics, Ossining, USA
B*35:02:14	HG00024017	MN016500	Histogenetics, Ossining, USA
B*35:02:15	HG00025188, HG00025189	MN136818, MN136819	Histogenetics, Ossining, USA
B*35:03:01:11	HG00023501	MN003128	Histogenetics, Ossining, USA
B*35:03:01:12	HG00023615	MN003246	Histogenetics, Ossining, USA
B*35:03:01:13	HG00023715	MN003347	Histogenetics, Ossining, USA
B*35:03:01:14	HG00023811, HG00023812, HG00023813, HG00023855, HG00024016, HG00025010	MN016286, MN016287, MN016288, MN016330, MN016499, MN053491	Histogenetics, Ossining, USA
B*35:03:01:15	HG00023953	MN016433	Histogenetics, Ossining, USA
B*35:03:01:16	HG00023934	MN016414	Histogenetics, Ossining, USA
B*35:04:01:02	HG00023461	MN003087	Histogenetics, Ossining, USA
B*35:05:01:04	HG00023532	MN003162	Histogenetics, Ossining, USA
B*35:08:01:04	HG00023536	MN003166	Histogenetics, Ossining, USA
B*35:08:01:05	HG00023543	MN003173	Histogenetics, Ossining, USA
B*35:08:01:06	HG00023594	MN003225	Histogenetics, Ossining, USA
B*35:08:01:07	HG00023596	MN003227	Histogenetics, Ossining, USA
B*35:08:01:08	HG00023927	MN016407	Histogenetics, Ossining, USA
B*35:28:01:02	HG00023735	MN016203	Histogenetics, Ossining, USA
B*35:28:01:03	HG00024003	MN016485	Histogenetics, Ossining, USA
B*35:30:01:02	HG00023437, HG00023630, HG00023653, HG00023662, HG00023798, HG00023939, HG00023998, HG00024006	MN003057, MN003261, MN003284, MN003293, MN016269, MN016419, MN016479, MN016488	Histogenetics, Ossining, USA
B*35:439:01:02	E1331, E1341, E1747, E1749, E1573	MN233338	Vinicius Stelet, Rio de Janeiro, Brazil
B*35:461N	HG00023400	MK938064	Histogenetics, Ossining, USA
B*35:462	HG00024036	MN016520	Histogenetics, Ossining, USA
B*35:463	E1333	MN233339	Vinicius Stelet, Rio de Janeiro, Brazil
B*35:464	HG00025126	MN075169	Histogenetics, Ossining, USA
B*35:465	HG00025158	MN115506	Histogenetics, Ossining, USA
B*35:466	HG00025168	MN0136798	Histogenetics, Ossining, USA
B*35:49:02	HG00025129	MN115476	Histogenetics, Ossining, USA
B*37:01:01:06	HG00023307, HG00023367	MK937965, MK938029	Histogenetics, Ossining, USA
B*37:01:01:07	HG00023404	MK938068	Histogenetics, Ossining, USA
B*37:01:01:08	HG00023454, HG00023304	MN003079, MK937962	Histogenetics, Ossining, USA
B*37:01:01:09	HG00023640, HG00023774	MN003271, MN016245	Histogenetics, Ossining, USA
B*37:01:21	HG00022449	MN115505	Histogenetics, Ossining, USA
B*37:01:22	HG00025150	MN115497	Histogenetics, Ossining, USA
B*37:91	HG00022522	MK890159	Histogenetics, Ossining, USA
B*38:01:01:04	HG00023678	MN003309	Histogenetics, Ossining, USA
B*38:01:01:05	HG00023720, HG00023730	MN003352, MN016198	Histogenetics, Ossining, USA
B*38:01:01:06	HG00022693, HG00023177	MN003049, MN016406	Histogenetics, Ossining, USA
B*38:02:01:02	NG11_ZN_191C	MN187916	Uma Kanga, New Delhi, India
B*38:163	MDRI023	MN029020	Meetal Morjaria, Mumbai, India
B*39:01:01:10	HG00023382	MK938046	Histogenetics, Ossining, USA
B*39:01:01:11	HG00023513	MN003140	Histogenetics, Ossining, USA
B*39:01:01:12	HG00023533	MN003163	Histogenetics, Ossining, USA
B*39:01:30	HG00023298	MK920350	Histogenetics, Ossining, USA
B*39:01:31	HG00025146	MN115493	Histogenetics, Ossining, USA
B*39:03:01:03	HG00023552	MN003182	Histogenetics, Ossining, USA
B*39:05:01:03	HG00023523, HG00023548	MN003153, MN003178	Histogenetics, Ossining, USA
B*39:05:01:04	HG00023814, HG00023815, HG00023958, HG00023959	MN016289, MN016290, MN016439, MN016440	Histogenetics, Ossining, USA
B*39:06:02:05	HG00019256, HG00023949, HG00023990	MN016206, MN016429, MN016471	Histogenetics, Ossining, USA
B*39:06:02:06	HG00023834	MN016309	Histogenetics, Ossining, USA
B*39:09:01:04	HG00023692, HG00023706, HG00023944, HG00023947	MN003324, MN003338, MN016424, MN016427	Histogenetics, Ossining, USA
B*39:14:01:03	HG00023458, HG00023574, HG00023602	MN003084, MN003205, MN003233	Histogenetics, Ossining, USA
B*39:156	HG00016929	MH401241	Histogenetics, Ossining, USA
B*39:157N	HG00022377	MK844013	Histogenetics, Ossining, USA
B*39:158	HG00022523	MK890160	Histogenetics, Ossining, USA
B*39:159	2018-271-0108	MN154529	Jonathan Williams, Burlington, USA
B*39:160	HG00025180	MN136810	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*40:01:02:14	HG00023341, HG00023689, HG00023789	MK938001, MN003321, MN016260	Histogenetics, Ossining, USA
B*40:01:02:15	HG00023352	MK938012	Histogenetics, Ossining, USA
B*40:01:02:16	HG00023383	MK938047	Histogenetics, Ossining, USA
B*40:01:02:17	HG00023468	MN003094	Histogenetics, Ossining, USA
B*40:01:02:18	HG00023487	MN003114	Histogenetics, Ossining, USA
B*40:01:02:19	HG00023517, HG00025012	MN003144, MN053493	Histogenetics, Ossining, USA
B*40:01:02:20	HG00023585, HG00023672	MN003216, MN003303	Histogenetics, Ossining, USA
B*40:01:02:21	HG00023612, HG00023679, HG00023837, HG00023908, HG00025019	MN003243, MN003310, MN016312, MN016386, MN053501	Histogenetics, Ossining, USA
B*40:01:02:22	HG00023621	MN003252	Histogenetics, Ossining, USA
B*40:01:02:23	HG00023636	MN003267	Histogenetics, Ossining, USA
B*40:01:02:24	HG00023722	MN003354	Histogenetics, Ossining, USA
B*40:01:02:25	HG00023954	MN016434	Histogenetics, Ossining, USA
B*40:01:02:26	HG00023974	MN016455	Histogenetics, Ossining, USA
B*40:01:02:27	HG00023651	MN003282	Histogenetics, Ossining, USA
B*40:01:02:28	HG00025183	MN136813	Histogenetics, Ossining, USA
B*40:02:01:11	HG00023529, HG00023864, HG00023894, HG00023931	MN003159, MN016339, MN016371, MN016411	Histogenetics, Ossining, USA
B*40:02:01:12	HG00023669	MN003300	Histogenetics, Ossining, USA
B*40:02:01:13	HG00024027	MN016510	Histogenetics, Ossining, USA
B*40:02:01:14	HG00025124	MN075167	Histogenetics, Ossining, USA
B*40:02:29	HG00022378	MK844014	Histogenetics, Ossining, USA
B*40:02:30	HG00025137	MN115484	Histogenetics, Ossining, USA
B*40:05:01:03	HG00023544	MN003174	Histogenetics, Ossining, USA
B*40:06:01:04	HG00023312, HG00023332, HG00023481, HG00023566, HG00023770	MK937970, MK937991, MN003107, MN003196, MN016241	Histogenetics, Ossining, USA
B*40:06:01:05	HG00023359	MK938020	Histogenetics, Ossining, USA
B*40:06:01:06	HG00023447, HG00023551, HG00023618	MN003069, MN003181, MN003249	Histogenetics, Ossining, USA
B*40:06:01:07	HG00023466, HG00023479	MN003092, MN003105	Histogenetics, Ossining, USA
B*40:06:01:08	HG00023946	MN016426	Histogenetics, Ossining, USA
B*40:06:01:09	HG00023957	MN016438	Histogenetics, Ossining, USA
B*40:06:01:10	HG00023778	MN016249	Histogenetics, Ossining, USA
B*40:11:01:02	HG00023512	MN003139	Histogenetics, Ossining, USA
B*40:11:01:02	HG00023923	MN016402	Histogenetics, Ossining, USA
B*40:16:01:02	HG00023996, HG00024047, HG00024048	MN016477, MN016531, MN016532	Histogenetics, Ossining, USA
B*40:323:02	SMC190708_2019051030108	MN310608	Oh-Joong Kwon, Seoul, South Korea
B*40:353:02	HG00025209	MN178567	Histogenetics, Ossining, USA
B*40:444	HG00023290	MK923041	Histogenetics, Ossining, USA
B*40:445	HG00025025	MN053507	Histogenetics, Ossining, USA
B*40:446	HG00025028	MN053510	Histogenetics, Ossining, USA
B*40:447	2018-271-00964	MN154475	Jonathan Williams, Burlington, USA
B*40:448	2018-271-00999	MN154494	Jonathan Williams, Burlington, USA
B*40:449	HG00025187	MN136817	Histogenetics, Ossining, USA
B*40:50:01:02	HG00022649	MK938037	Histogenetics, Ossining, USA
B*41:01:01:03	HG00023980	MN016461	Histogenetics, Ossining, USA
B*41:02:01:04	HG00023319, HG00023484	MK937978, MN003111	Histogenetics, Ossining, USA
B*41:02:01:05	HG00023349, HG00023418, HG00023420, HG00023496, HG00023550, HG00023649, HG00023687, HG00023736, HG00023776, HG00023820, HG00023843, HG00023880	MK938009, MN003037, MN003039, MN003123, MN003180, MN003280, MN003319, MN016204, MN016247, MN016295, MN016318, MN016357	Histogenetics, Ossining, USA
B*41:02:01:06	HG00023877	MN016354	Histogenetics, Ossining, USA
B*41:02:01:07	HG00023935	MN016415	Histogenetics, Ossining, USA
B*42:01:01:02	HG00023448	MN003070	Histogenetics, Ossining, USA
B*42:02:02	p6346	MK882490	Vinicius Stelet, Rio de Janeiro, Brazil
B*44:02:01:23	HG00023360	MK938021	Histogenetics, Ossining, USA
B*44:02:01:24	HG00023395, HG00023396, HG00023435	MK938059, MK938060, MN003055	Histogenetics, Ossining, USA
B*44:02:01:25	HG00023452	MN003074	Histogenetics, Ossining, USA
B*44:02:01:26	HG00023567	MN003197	Histogenetics, Ossining, USA
B*44:02:01:27	HG00023611, HG00023826, HG00023888	MN003242, MN016301, MN016365	Histogenetics, Ossining, USA
B*44:02:01:28	HG00023639	MN003270	Histogenetics, Ossining, USA
B*44:02:01:29	HG00023656	MN003287	Histogenetics, Ossining, USA
B*44:02:01:30	HG00023668	MN003299	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*44:02:01:31	HG00023684	MN003316	Histogenetics, Ossining, USA
B*44:02:01:32	HG00023742	MN016212	Histogenetics, Ossining, USA
B*44:02:01:33	HG00023775	MN016246	Histogenetics, Ossining, USA
B*44:02:01:34	HG00023787, HG00023819	MN016258, MN016294	Histogenetics, Ossining, USA
B*44:02:01:35	HG00023823	MN016298	Histogenetics, Ossining, USA
B*44:02:01:36	HG00023898	MN016376	Histogenetics, Ossining, USA
B*44:02:01:37	71524319	MN071208	Luis Alberto, Albacete, Spain
B*44:02:01:38	HG00023540	MN003170	Histogenetics, Ossining, USA
B*44:02:01:39	HG00025153	MN115500	Histogenetics, Ossining, USA
B*44:02:64	HG00023725, HG00023726	MN016189, MN016190	Histogenetics, Ossining, USA
B*44:03:01:21	HG00019756	MN003077	Histogenetics, Ossining, USA
B*44:03:01:22	HG00020703, HG00023541	MN003082, MN003171	Histogenetics, Ossining, USA
B*44:03:01:23	HG00023422, HG00023427, HG00023440, HG00023442, HG00023443, HG00023509, HG00023557, HG00023559, HG00023622, HG00023680, HG00023696, HG00023876, HG00023889, HG00023930, HG00023941, HG00023984	MN003041, MN003046, MN003061, MN003063, MN003064, MN003136, MN003187, MN003189, MN003253, MN003312, MN003328, MN016353, MN016366, MN016410, MN016421, MN016465	Histogenetics, Ossining, USA
B*44:03:01:24	HG00023576, HG00023945	MN003207, MN016425	Histogenetics, Ossining, USA
B*44:03:01:25	HG00023631, HG00023847, HG00024011	MN003262, MN016322, MN016494	Histogenetics, Ossining, USA
B*44:03:01:26	HG00023749	MN016219	Histogenetics, Ossining, USA
B*44:03:01:27	HG00023929	MN016409	Histogenetics, Ossining, USA
B*44:03:01:28	HG00023937	MN016417	Histogenetics, Ossining, USA
B*44:03:01:29	HG00023951	MN016431	Histogenetics, Ossining, USA
B*44:03:01:30	HG00023981	MN016462	Histogenetics, Ossining, USA
B*44:03:01:31	HG00023368	MK938030	Histogenetics, Ossining, USA
B*44:03:01:32	HG00023439, HG00023441, HG00023925, HG00023926, HG00023986	MN003060, MN003062, MN016404, MN016405, MN016467	Histogenetics, Ossining, USA
B*44:03:02:02	HG00023375, HG00023460, HG00023956	MK938039, MN003086, MN016437	Histogenetics, Ossining, USA
B*44:03:55	HG00023991	MN016472	Histogenetics, Ossining, USA
B*44:03:56	P187990355K	MN227125	Jonathan Downing, Perth, Australia
B*44:05:01:02	HG00023666	MN003297	Histogenetics, Ossining, USA
B*44:05:01:03	HG00023467	MN003093	Histogenetics, Ossining, USA
B*44:05:01:04	HG00025195	MN136825	Histogenetics, Ossining, USA
B*44:266:02	HG00023724	MN016188	Histogenetics, Ossining, USA
B*44:281:02	HG00025142	MN115489	Histogenetics, Ossining, USA
B*44:477	HG00024012	MN016495	Histogenetics, Ossining, USA
B*44:478	HG00025015	MN053496	Histogenetics, Ossining, USA
B*44:479	HG00025156	MN115503	Histogenetics, Ossining, USA
B*44:480Q	HG00025217	MN178575	Histogenetics, Ossining, USA
B*44:481	MDRI027	MN163275	Meetali Morjaria, Mumbai, India
B*45:01:01:05	HG00023306	MK937964	Histogenetics, Ossining, USA
B*45:01:01:06	HG00023347, HG00023564, HG00023902	MK938007, MN003194, MN016380	Histogenetics, Ossining, USA
B*46:01:01:02	HG00023471	MN003097	Histogenetics, Ossining, USA
B*46:01:01:03	HG00023793	MN016264	Histogenetics, Ossining, USA
B*46:01:01:04	HG00023832	MN016307	Histogenetics, Ossining, USA
B*46:80	JXZJ20180714002	MN066310	Faming Zhu, Hangzhou, China
B*46:81	5791800906	MN149351	Faming Zhu, Hangzhou, China
B*47:01:01:04	HG00023628, HG00023674	MN003259, MN003305	Histogenetics, Ossining, USA
B*47:01:01:05	HG00023882	MN016359	Histogenetics, Ossining, USA
B*48:01:01:03	HG00023654	MN003285	Histogenetics, Ossining, USA
B*48:01:01:04	HG00023750, HG00023887	MN016220, MN016364	Histogenetics, Ossining, USA
B*48:01:10	2018-271-01038	MN154510	Jonathan Williams, Burlington, USA
B*48:03:01:02	HG00023429, HG00023869	MN003048, MN016344	Histogenetics, Ossining, USA
B*48:04:01:02	HG00016576, HG00023380, HG00023682	MN016196, MK938044, MN003314	Histogenetics, Ossining, USA
B*49:01:01:05	HG00023426, HG00023428, HG00023638, HG00023842	MN003045, MN003047, MN003269, MN016317	Histogenetics, Ossining, USA
B*49:01:01:06	HG00023578	MN003209	Histogenetics, Ossining, USA
B*49:01:01:07	HG00023884	MN016361	Histogenetics, Ossining, USA
B*49:01:01:08	HG00023489, HG00023648	MN003116, MN003279	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*49:01:01:09	HG00023315, HG00023338, HG00023373, HG00023409, HG00023528, HG00023558, HG00023587, HG00023598, HG00023610, HG00023614, HG00023633, HG00023635, HG00023718, HG00023737, HG00023771, HG00023942, HG00023995, HG00024043	MK937974, MK937997, MK938036, MK938074, MN003158, MN003188, MN003218, MN003229, MN003241, MN003245, MN003264, MN003266, MN003350, MN016205, MN016242, MN016422, MN016476, MN016527	Histogenetics, Ossining, USA
B*49:01:16	HG00025149	MN115496	Histogenetics, Ossining, USA
B*49:65	HG00025220	MN178578	Histogenetics, Ossining, USA
B*50:01:01:03	HG00023515	MN003142	Histogenetics, Ossining, USA
B*50:01:01:04	HG00023825	MN016300	Histogenetics, Ossining, USA
B*50:01:01:05	HG00023851	MN016326	Histogenetics, Ossining, USA
B*50:01:01:06	HG00023459	MN003085	Histogenetics, Ossining, USA
B*50:01:14	HG00025210	MN178568	Histogenetics, Ossining, USA
B*50:01:15	HG00025229	MN206088	Histogenetics, Ossining, USA
B*50:02:01:02	HG00023754	MN016224	Histogenetics, Ossining, USA
B*50:65	HG00020467	MK442205	Histogenetics, Ossining, USA
B*50:66	HG00022386	MK844022	Histogenetics, Ossining, USA
B*50:67	HG00022519	MK890156	Histogenetics, Ossining, USA
B*50:68	HG00024037	MN016521	Histogenetics, Ossining, USA
B*50:69	HG00025144	MN115491	Histogenetics, Ossining, USA
B*51:01:01:37	HG00023313	MK937972	Histogenetics, Ossining, USA
B*51:01:01:38	HG00023449, HG00023482, HG00023745, HG00023763	MN003071, MN003108, MN016215, MN016234	Histogenetics, Ossining, USA
B*51:01:01:39	HG00023453	MN003076	Histogenetics, Ossining, USA
B*51:01:01:40	HG00023464	MN003090	Histogenetics, Ossining, USA
B*51:01:01:41	HG00023514	MN003141	Histogenetics, Ossining, USA
B*51:01:01:42	HG00023516	MN003143	Histogenetics, Ossining, USA
B*51:01:01:43	HG00023580	MN003211	Histogenetics, Ossining, USA
B*51:01:01:44	HG00023644, HG00023773, HG00023872	MN003275, MN016244, MN016348	Histogenetics, Ossining, USA
B*51:01:01:45	HG00023748	MN016218	Histogenetics, Ossining, USA
B*51:01:01:46	HG00023835	MN016310	Histogenetics, Ossining, USA
B*51:01:01:47	HG00023906	MN016384	Histogenetics, Ossining, USA
B*51:01:01:48	HG00024021	MN016504	Histogenetics, Ossining, USA
B*51:01:01:49	HG00025200	MN166915	Histogenetics, Ossining, USA
B*51:01:01:50	HG00023417, HG00023788, HG00023841, HG00024005	MN003036, MN016259, MN016316, MN016487	Histogenetics, Ossining, USA
B*51:01:02:02	HG00024039	MN016523	Histogenetics, Ossining, USA
B*51:01:79	HG00022514	MK890151	Histogenetics, Ossining, USA
B*51:304	HG00023301	MK920353	Histogenetics, Ossining, USA
B*51:305	2018-271-00956	MN154469	Jonathan Williams, Burlington, USA
B*51:306N	2018-271-01051	MN154516	Jonathan Williams, Burlington, USA
B*51:307	HG00025190	MN136820	Histogenetics, Ossining, USA
B*52:01:01:07	HG00023766	MN016237	Histogenetics, Ossining, USA
B*52:01:01:08	HG00023779	MN016250	Histogenetics, Ossining, USA
B*52:01:01:09	HG00023545	MN003175	Histogenetics, Ossining, USA
B*52:01:02:04	HG00023838	MN016313	Histogenetics, Ossining, USA
B*52:01:45	HG00023295	MK920347	Histogenetics, Ossining, USA
B*52:01:46	HG00024038	MN016522	Histogenetics, Ossining, USA
B*52:01:47	HG00025138	MN115485	Histogenetics, Ossining, USA
B*52:94N	HG00025027	MN053509	Histogenetics, Ossining, USA
B*53:01:01:03	HG00023354	MK938014	Histogenetics, Ossining, USA
B*53:01:01:04	HG00023413, HG00023423	MN003031, MN003042	Histogenetics, Ossining, USA
B*53:01:01:05	HG00023433, HG00023457, HG00023531	MN003053, MN003083, MN003161	Histogenetics, Ossining, USA
B*53:01:01:06	HG00023438	MN003059	Histogenetics, Ossining, USA
B*53:01:01:07	HG00023583	MN003214	Histogenetics, Ossining, USA
B*53:01:01:08	HG00023345	MK938005	Histogenetics, Ossining, USA
B*53:01:01:09	HG00023973	MN016454	Histogenetics, Ossining, USA
B*53:57	HG00024050	MN016534	Histogenetics, Ossining, USA
B*53:58	65190069380	MK953661	Gerald Bertrand, Rennes Cedex, France
B*54:01:01:02	HG00023593	MN003224	Histogenetics, Ossining, USA
B*54:01:08	SCL190614_02467895	MN186379	Oh-Joong Kwon, Seoul, South Korea
B*55:01:01:05	HG00023321	MK937980	Histogenetics, Ossining, USA
B*55:01:01:06	HG00023325	MK937984	Histogenetics, Ossining, USA
B*55:01:01:07	HG00023342	MK938002	Histogenetics, Ossining, USA
B*55:01:01:08	HG00023344, HG00023970	MK938004, MN016451	Histogenetics, Ossining, USA
B*55:01:01:09	HG00023445	MN003066	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*55:01:01:10	HG00023922	MN016401	Histogenetics, Ossining, USA
B*55:01:01:11	HG00023993	MN016474	Histogenetics, Ossining, USA
B*55:01:01:12	HG00024002	MN016484	Histogenetics, Ossining, USA
B*55:01:01:13	HG00024008	MN016491	Histogenetics, Ossining, USA
B*55:01:01:14	HLA-UERJ-C2345	MN125338	Romulo Vianna, Rio de Janeiro, Brazil
B*55:01:01:15	HG00023705	MN003337	Histogenetics, Ossining, USA
B*55:01:23	HG00025177	MN136807	Histogenetics, Ossining, USA
B*55:02:12	HG00025152	MN115499	Histogenetics, Ossining, USA
B*55:02:13	HG00025219	MN178577	Histogenetics, Ossining, USA
B*56:01:01:08	HG00023410	MK938075	Histogenetics, Ossining, USA
B*56:01:01:09	HG00023416	MN003034	Histogenetics, Ossining, USA
B*56:01:01:10	HG00023469	MN003095	Histogenetics, Ossining, USA
B*56:01:01:11	HG00023508	MN003135	Histogenetics, Ossining, USA
B*56:02:01:02	HG00023411	MK938076	Histogenetics, Ossining, USA
B*56:04:01:02	HG00023506	MN003133	Histogenetics, Ossining, USA
B*56:04:01:03	HG00025155	MN115502	Histogenetics, Ossining, USA
B*56:04:04	HG00023451	MN003073	Histogenetics, Ossining, USA
B*56:71	2018-271-01021	MN154503	Jonathan Williams, Burlington, USA
B*57:01:01:07	HG00023308	MK937966	Histogenetics, Ossining, USA
B*57:01:01:08	HG00023405, HG00023860	MK938070, MN016335	Histogenetics, Ossining, USA
B*57:01:01:09	HG00023503	MN003130	Histogenetics, Ossining, USA
B*57:01:01:10	HG00023504, HG00024044	MN003131, MN016528	Histogenetics, Ossining, USA
B*57:01:01:11	HG00023561	MN003191	Histogenetics, Ossining, USA
B*57:01:01:12	HG00023575	MN003206	Histogenetics, Ossining, USA
B*57:01:01:13	HG00023690	MN003322	Histogenetics, Ossining, USA
B*57:01:01:14	HG00023905	MN016383	Histogenetics, Ossining, USA
B*57:01:41	HG00025133	MN115480	Histogenetics, Ossining, USA
B*57:03:01:04	HG00023364, HG00023381, HG00023968	MK938025, MK938045, MN016449	Histogenetics, Ossining, USA
B*57:03:05	HG00025165	MN136795	Histogenetics, Ossining, USA
B*57:127	HG00025022	MN053504	Histogenetics, Ossining, USA
B*58:01:01:06	HG00023556	MN003186	Histogenetics, Ossining, USA
B*58:01:01:07	HG00023747	MN016217	Histogenetics, Ossining, USA
B*58:01:01:08	HG00023421	MN003040	Histogenetics, Ossining, USA
B*58:01:01:09	HG00023609	MN003240	Histogenetics, Ossining, USA
B*58:01:34	HG00025222	MN178580	Histogenetics, Ossining, USA
B*58:02:01:02	HG00023588	MN003219	Histogenetics, Ossining, USA
B*58:02:01:03	HG00023488	MN003115	Histogenetics, Ossining, USA
B*58:116	HG00022521	MK890158	Histogenetics, Ossining, USA
B*58:117	HG00024019	MN016502	Histogenetics, Ossining, USA
B*58:118	MN400	MN193512	Wangxia Li, Wuhan, China
B*58:119	HG00025184	MN136814	Histogenetics, Ossining, USA
B*58:120	S94	MN380084	Julia Kalser, Vienna, Austria
B*73:01:01:02	HG00023348	MK938008	Histogenetics, Ossining, USA
B*81:01:01:02	HG00023389	MK938053	Histogenetics, Ossining, USA
B*81:09	E1329	MN233336	Vinicius Stelet, Rio de Janeiro, Brazil
C*01:02:01:13	BY01820, BY01826	MN032101	Carolyn K Hurley, Washington DC, USA
C*01:02:01:13	HG00024204, HG00024264, HG00024346, HG00024680, HG00024861	MK954480, MK954543, MK954629, MN016676, MN016869	Histogenetics, Ossining, USA
C*01:02:01:14	HG00018288, HG00024232, HG00024695, HG00024878	MK954747, MK954510, MN016692, MN016887	Histogenetics, Ossining, USA
C*01:02:01:15	HG00024104	MK938202	Histogenetics, Ossining, USA
C*01:02:01:16	HG00024160	MK938263	Histogenetics, Ossining, USA
C*01:02:01:17	HG00024191, HG00024601, HG00024604, HG00024619, HG00024700, HG00024732, HG00024798, HG00024826	MK938295, MN016594, MN016597, MN016613, MN016697, MN016732, MN016802, MN016831	Histogenetics, Ossining, USA
C*01:02:01:18	HG00024195	MK938299	Histogenetics, Ossining, USA
C*01:02:01:19	HG00024206, HG00024252, HG00024721, HG00024769, HG00024907, HG00024911	MK954482, MK954530, MN016720, MN016771, MN016920, MN016924	Histogenetics, Ossining, USA
C*01:02:01:20	HG00024261	MK954540	Histogenetics, Ossining, USA
C*01:02:01:21	HG00024311	MK954593	Histogenetics, Ossining, USA
C*01:02:01:22	HG00024405	MK954691	Histogenetics, Ossining, USA
C*01:02:01:23	HG00024422, HG00024552	MK954708, MN016543	Histogenetics, Ossining, USA
C*01:02:01:24	HG00024452	MK954739	Histogenetics, Ossining, USA
C*01:02:01:25	HG00024482	MK954770	Histogenetics, Ossining, USA
C*01:02:01:26	HG00024484	MK954772	Histogenetics, Ossining, USA
C*01:02:01:27	HG00024603, HG00024625, HG00024632	MN016596, MN016619, MN016626	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*01:02:01:28	HG00024609	MN016603	Histogenetics, Ossining, USA
C*01:02:01:29	HG00024765	MN016767	Histogenetics, Ossining, USA
C*01:02:01:30	HG00022629	MK938219	Histogenetics, Ossining, USA
C*01:02:64	HG00025304	MN166929	Histogenetics, Ossining, USA
C*01:185Q	HG00024056	MK920368	Histogenetics, Ossining, USA
C*01:186	HG00024917	MN016930	Histogenetics, Ossining, USA
C*01:187	HG00025265	MN115534	Histogenetics, Ossining, USA
C*02:02:02:24	HG00015958	MK954503	Histogenetics, Ossining, USA
C*02:02:02:25	HG00024142	MK938245	Histogenetics, Ossining, USA
C*02:02:02:26	HG00024146	MK938249	Histogenetics, Ossining, USA
C*02:02:02:27	HG00024224	MK954501	Histogenetics, Ossining, USA
C*02:02:02:28	HG00024287, HG00024310	MK954569, MK954592	Histogenetics, Ossining, USA
C*02:02:02:29	HG00024295, HG00024537	MK954577, MK954828	Histogenetics, Ossining, USA
C*02:02:02:30	HG00024308, HG00024742	MK954590, MN016744	Histogenetics, Ossining, USA
C*02:02:02:31	HG00024424, HG00024682, HG00024746, HG00024750, HG00024788	MK954710, MN016678, MN016748, MN016752, MN016790	Histogenetics, Ossining, USA
C*02:02:02:32	HG00024444	MK954731	Histogenetics, Ossining, USA
C*02:02:02:33	HG00024502	MK954790	Histogenetics, Ossining, USA
C*02:02:02:34Q	HG00024771	MN016773	Histogenetics, Ossining, USA
C*02:02:02:35	HG00024809	MN016813	Histogenetics, Ossining, USA
C*02:02:02:36	HG00024891	MN016901	Histogenetics, Ossining, USA
C*02:02:02:37	HG00024908	MN016921	Histogenetics, Ossining, USA
C*02:02:02:38	HG00024441, HG00024887	MK954728, MN016896	Histogenetics, Ossining, USA
C*02:02:02:39	HG00025290	MN136839	Histogenetics, Ossining, USA
C*02:02:55	HG00025261	MN115530	Histogenetics, Ossining, USA
C*02:10:01:08	HG00024307	MK954589	Histogenetics, Ossining, USA
C*02:10:01:09	HG00024336	MK954619	Histogenetics, Ossining, USA
C*02:10:01:10	HG00024614	MN016608	Histogenetics, Ossining, USA
C*02:10:01:11	HG00024820	MN016825	Histogenetics, Ossining, USA
C*02:10:01:12	HG00023480, HG00023565, HG00023854	MK954537, MK954672, MN016712	Histogenetics, Ossining, USA
C*02:10:01:13	HG00024867, HG00025033	MN016876, MN053469	Histogenetics, Ossining, USA
C*02:180	HG00022531	MK890197	Histogenetics, Ossining, USA
C*02:181	HG00024076	MK920388	Histogenetics, Ossining, USA
C*02:182	HG00024883	MN016892	Histogenetics, Ossining, USA
C*02:183	HG00025254	MN115523	Histogenetics, Ossining, USA
C*02:184	BY01709	MN255472	Carolyn K Hurley, Washington DC, USA
C*02:185	017250447	MN257432	Ornella Senoussi, La Tronche, France
C*02:186	HG00025252	MN115521	Histogenetics, Ossining, USA
C*03:02:02:06	HG00024631	MN016625	Histogenetics, Ossining, USA
C*03:02:02:07	HG00024636	MN016630	Histogenetics, Ossining, USA
C*03:03:01:15	HG00024217	MK954493	Histogenetics, Ossining, USA
C*03:03:01:16	HG00024319, HG00024602, HG00024691, HG00024880	MK954602, MN016595, MN016688, MN016889	Histogenetics, Ossining, USA
C*03:03:01:17	HG00024354	MK954637	Histogenetics, Ossining, USA
C*03:03:01:18	HG00024412, HG00024425, HG00024874	MK954698, MK954711, MN016883	Histogenetics, Ossining, USA
C*03:03:01:19	HG00024545	MK954836	Histogenetics, Ossining, USA
C*03:03:01:20	HG00024606	MN016600	Histogenetics, Ossining, USA
C*03:03:01:21	HG00024633	MN016627	Histogenetics, Ossining, USA
C*03:03:01:22	HG00024678, HG00024892	MN016674, MN016902	Histogenetics, Ossining, USA
C*03:03:01:23	HG00024831	MN016836	Histogenetics, Ossining, USA
C*03:03:01:24	HG00024277	MK954558	Histogenetics, Ossining, USA
C*03:03:01:25	HG00025233, HG00025278	MN075183, MN115547	Histogenetics, Ossining, USA
C*03:03:01:26	HG00025301	MN166926	Histogenetics, Ossining, USA
C*03:04:01:16	HG00024090	MK938188	Histogenetics, Ossining, USA
C*03:04:01:17	HG00024098	MK938196	Histogenetics, Ossining, USA
C*03:04:01:18	HG00024101, HG00024257, HG00024284, HG00024304, HG00024314, HG00024331, HG00024363, HG00024528, HG00024587, HG00024648, HG00024649, HG00024650, HG00024664, HG00024665, HG00024697, HG00024714, HG00024813, HG00024847, HG00024875	MK938199, MK954535, MK954566, MK954586, MK954597, MK954614, MK954646, MK954819, MN016580, MN016642, MN016643, MN016644, MN016660, MN016661, MN016694, MN016713, MN016818, MN016853, MN016884	Histogenetics, Ossining, USA
C*03:04:01:19	HG00024124	MK938225	Histogenetics, Ossining, USA
C*03:04:01:20	HG00024135	MK938236	Histogenetics, Ossining, USA
C*03:04:01:21	HG00024241	MK954519	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*03:04:01:22	HG00024243, HG00024245, HG00024291, HG00024322, HG00024468, HG00024536, HG00024624, HG00024888	MK954521, MK954523, MK954573, MK954605, MK954756, MK954827, MN016618, MN016898	Histogenetics, Ossining, USA
C*03:04:01:23	HG00024244, HG00024610, HG00024845, HG00024879	MK954522, MN016604, MN016851, MN016888	Histogenetics, Ossining, USA
C*03:04:01:24	HG00024274, HG00024479, HG00024480, HG00024613, HG00024657, HG00024658, HG00024671, HG00024677, HG00024884	MK954554, MK954767, MK954768, MN016607, MN016653, MN016654, MN016667, MN016673, MN016893	Histogenetics, Ossining, USA
C*03:04:01:25	HG00024378	MK954661	Histogenetics, Ossining, USA
C*03:04:01:26	HG00024408, HG00024651, HG00024848, HG00024849	MK954694, MN016645, MN016854, MN016855	Histogenetics, Ossining, USA
C*03:04:01:27	HG00024489	MK954777	Histogenetics, Ossining, USA
C*03:04:01:28	HG00024554	MN016545	Histogenetics, Ossining, USA
C*03:04:01:29	HG00024576	MN016568	Histogenetics, Ossining, USA
C*03:04:01:30	HG00024676	MN016672	Histogenetics, Ossining, USA
C*03:04:01:31	HG00024705	MN016703	Histogenetics, Ossining, USA
C*03:04:01:32	HG00024738	MN016739	Histogenetics, Ossining, USA
C*03:04:01:33	HG00024777	MN016779	Histogenetics, Ossining, USA
C*03:04:01:34	HG00024795	MN016798	Histogenetics, Ossining, USA
C*03:04:01:35Q	HG00024800	MN016804	Histogenetics, Ossining, USA
C*03:04:01:36	HG00024817	MN016822	Histogenetics, Ossining, USA
C*03:04:01:37	HG00024868	MN016877	Histogenetics, Ossining, USA
C*03:04:01:38	NG35_NK_149P	MN187922	Uma Kanga, New Delhi, India
C*03:04:01:39	HLA-UERJ-C2412	MN208448	Romulo Vianna, Rio de Janeiro, Brazil
C*03:04:01:40	HG00024611	MN016605	Histogenetics, Ossining, USA
C*03:04:01:41	NG18_IR_205C	MN187918	Uma Kanga, New Delhi, India
C*03:04:02:02	HG00024627	MN016621	Histogenetics, Ossining, USA
C*03:04:02:03	BY01835	MN150541	Carolyn K Hurley, Washington DC, USA
C*03:04:79	5771800339	MN055486	Faming Zhu, Hangzhou, China
C*03:07:01:03	HG00024388, HG00024834	MK954673, MN016839	Histogenetics, Ossining, USA
C*03:490	HG00024054	MK920366	Histogenetics, Ossining, USA
C*03:491	HG00024062	MK920374	Histogenetics, Ossining, USA
C*03:492	HG00024067	MK920379	Histogenetics, Ossining, USA
C*03:493	HG00024082	MK938180	Histogenetics, Ossining, USA
C*03:494	HG00024895	MN016906	Histogenetics, Ossining, USA
C*03:495	HG00024898	MN016910	Histogenetics, Ossining, USA
C*03:496	HG00025042	MN053479	Histogenetics, Ossining, USA
C*03:497	HG00025046	MN053483	Histogenetics, Ossining, USA
C*03:498	HG00025253	MN115522	Histogenetics, Ossining, USA
C*03:499	HG00025262	MN115531	Histogenetics, Ossining, USA
C*03:500	HG00025274	MN115543	Histogenetics, Ossining, USA
C*03:501	HG00025287	MN136836	Histogenetics, Ossining, USA
C*03:502	HG00025291	MN136840	Histogenetics, Ossining, USA
C*03:503	017244196	MN257435	Ornella Senoussi, La Tronche, France
C*03:504	JRC-D36-100	LC490863	Masahiro Satake, Tokyo, Japan
C*04:01:01:36	HG00021732	MN016734	Histogenetics, Ossining, USA
C*04:01:01:37	HG00024115	MK938213	Histogenetics, Ossining, USA
C*04:01:01:38	HG00024116, HG00024334	MK938214, MK954617	Histogenetics, Ossining, USA
C*04:01:01:39	HG00024139, HG00024411	MK938241, MK954697	Histogenetics, Ossining, USA
C*04:01:01:40	HG00024150	MK938253	Histogenetics, Ossining, USA
C*04:01:01:41	HG00024159	MK938262	Histogenetics, Ossining, USA
C*04:01:01:42	HG00024161, HG00024293, HG00024510, HG00024560, HG00024694, HG00024722, HG00024743	MK938264, MK954575, MK954799, MN016551, MN016691, MN016721, MN016745	Histogenetics, Ossining, USA
C*04:01:01:43	HG00024163, HG00024165	MK938266, MK938268	Histogenetics, Ossining, USA
C*04:01:01:44	HG00024174	MK938277	Histogenetics, Ossining, USA
C*04:01:01:45	HG00024184	MK938287	Histogenetics, Ossining, USA
C*04:01:01:46	HG00024225	MK954502	Histogenetics, Ossining, USA
C*04:01:01:47Q	HG00024233	MK954511	Histogenetics, Ossining, USA
C*04:01:01:48	HG00024249	MK954527	Histogenetics, Ossining, USA
C*04:01:01:49	HG00024265	MK954544	Histogenetics, Ossining, USA
C*04:01:01:50	HG00024269	MK954549	Histogenetics, Ossining, USA
C*04:01:01:51	HG00024357	MK954640	Histogenetics, Ossining, USA
C*04:01:01:52	HG00024366	MK954649	Histogenetics, Ossining, USA
C*04:01:01:53	HG00024398, HG00024505	MK954684, MK954793	Histogenetics, Ossining, USA
C*04:01:01:54	HG00024461	MK954749	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*04:01:01:55	HG00024491	MK954779	Histogenetics, Ossining, USA
C*04:01:01:56	HG00024501	MK954789	Histogenetics, Ossining, USA
C*04:01:01:57	HG00024517	MK954807	Histogenetics, Ossining, USA
C*04:01:01:58	HG00024559	MN016550	Histogenetics, Ossining, USA
C*04:01:01:59	HG00024593	MN016586	Histogenetics, Ossining, USA
C*04:01:01:60	HG00024598	MN016591	Histogenetics, Ossining, USA
C*04:01:01:61	HG00024617	MN016611	Histogenetics, Ossining, USA
C*04:01:01:62	HG00024630	MN016624	Histogenetics, Ossining, USA
C*04:01:01:63	HG00024673	MN016669	Histogenetics, Ossining, USA
C*04:01:01:64	HG00024768, HG00024792	MN016770, MN016795	Histogenetics, Ossining, USA
C*04:01:01:65	HG00024791	MN016794	Histogenetics, Ossining, USA
C*04:01:01:66	HG00024794	MN016797	Histogenetics, Ossining, USA
C*04:01:01:67	HG00024799	MN016803	Histogenetics, Ossining, USA
C*04:01:01:68	HG00024812	MN016816	Histogenetics, Ossining, USA
C*04:01:01:69	HG00024814	MN016819	Histogenetics, Ossining, USA
C*04:01:01:70	HG00024852	MN016858	Histogenetics, Ossining, USA
C*04:01:01:71	HG00024885	MN016894	Histogenetics, Ossining, USA
C*04:01:01:72	HG00024890	MN016900	Histogenetics, Ossining, USA
C*04:01:01:73	HG00024903	MN016916	Histogenetics, Ossining, USA
C*04:01:01:74	HG00024906	MN016919	Histogenetics, Ossining, USA
C*04:01:01:75	BY01837	MN170514	Carolyn K Hurley, Washington DC, USA
C*04:01:01:76	HLA-UERJ-95253	MN208454	Romulo Vianna, Rio de Janeiro, Brazil
C*04:01:01:77	HG00025293	MN136842	Histogenetics, Ossining, USA
C*04:01:01:78	NG23_HV_221C	MN187924	Uma Kanga, New Delhi, India
C*04:01:120	HG00024060	MK920372	Histogenetics, Ossining, USA
C*04:01:92:03	65190472989	MK953667	Gerald Bertrand, Rennes Cedex, France
C*04:03:07	HG00025389	MN251789	Histogenetics, Ossining, USA
C*04:06:03	NG20_AG_258C	MN187919	Uma Kanga, New Delhi, India
C*04:399	HG00024069	MK920381	Histogenetics, Ossining, USA
C*04:400	NG01_CR_160C	MN148773	Uma Kanga, New Delhi, India
C*04:401	HG00024899	MN016911	Histogenetics, Ossining, USA
C*04:402	HG00025041	MN053478	Histogenetics, Ossining, USA
C*04:403	HG00025244	MN115513	Histogenetics, Ossining, USA
C*04:404	HG00025279	MN115548	Histogenetics, Ossining, USA
C*04:405	0122221	MN276074	Antonio Balas, Madrid, Spain
C*04:65:01:02	HG00024877	MN016886	Histogenetics, Ossining, USA
C*05:01:01:18	BY01809	MN038171	Carolyn K Hurley, Washington DC, USA
C*05:01:01:19	HG00017679, HG00024179, HG00024268	MK938290, MK938282, MK954548	Histogenetics, Ossining, USA
C*05:01:01:20	HG00024092, HG00024263	MK938190, MK954542	Histogenetics, Ossining, USA
C*05:01:01:21	HG00024120	MK938221	Histogenetics, Ossining, USA
C*05:01:01:22	HG00024205, HG00024827	MK954481, MN016832	Histogenetics, Ossining, USA
C*05:01:01:23	HG00024211	MK954487	Histogenetics, Ossining, USA
C*05:01:01:24	HG00024223	MK954500	Histogenetics, Ossining, USA
C*05:01:01:25	HG00024231	MK954509	Histogenetics, Ossining, USA
C*05:01:01:26	HG00024242, HG00024280, HG00024471, HG00024490, HG00024507, HG00024512, HG00024723, HG00024744, HG00024749	MK954520, MK954561, MK954759, MK954778, MK954796, MK954801, MN016722, MN016746, MN016751	Histogenetics, Ossining, USA
C*05:01:01:27	HG00024289	MK954571	Histogenetics, Ossining, USA
C*05:01:01:28	HG00024345, HG00024696, HG00024735	MK954628, MN016693, MN016736	Histogenetics, Ossining, USA
C*05:01:01:29	HG00024382, HG00024435	MK954666, MK954722	Histogenetics, Ossining, USA
C*05:01:01:30	HG00024496	MK954784	Histogenetics, Ossining, USA
C*05:01:01:31	HG00024515	MK954805	Histogenetics, Ossining, USA
C*05:01:01:32	HG00024579	MN016571	Histogenetics, Ossining, USA
C*05:01:01:33	HG00024685, HG00024731, HG00024811	MN016681, MN016731, MN016815	Histogenetics, Ossining, USA
C*05:01:01:34	HG00024766	MN016768	Histogenetics, Ossining, USA
C*05:01:01:35	HG00024854	MN016861	Histogenetics, Ossining, USA
C*05:01:01:36	HG00023217	MN016862	Histogenetics, Ossining, USA
C*05:01:01:37	HG00024093	MK938191	Histogenetics, Ossining, USA
C*05:01:01:38	HG00024266	MK954546	Histogenetics, Ossining, USA
C*05:01:01:39	HG00024317, HG00024318, HG00024464	MK954600, MK954601, MK954752	Histogenetics, Ossining, USA
C*05:01:01:40	HG00024567	MN016559	Histogenetics, Ossining, USA
C*05:01:49	HLA-UERJ-C2406	MN107035	Romulo Vianna, Rio de Janeiro, Brazil
C*05:01:50	8122916	MN276075	Antonio Balas, Madrid, Spain
C*05:223	HG00024072	MK920384	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*05:224	HG00025045	MN053482	Histogenetics, Ossining, USA
C*05:225	P187990749W	MN203123	Jonathan Downing, Perth, Australia
C*05:226	HG00025257	MN115526	Histogenetics, Ossining, USA
C*05:227	2018-271-01068	MN154523	Jonathan Williams, Burlington, USA
C*06:02:01:18	HG00024108	MK938206	Histogenetics, Ossining, USA
C*06:02:01:19	HG00024118, HG00024330, HG00024839, HG00024840	MK938218, MK954613, MN016845, MN016846	Histogenetics, Ossining, USA
C*06:02:01:20	HG00024127	MK938228	Histogenetics, Ossining, USA
C*06:02:01:21	HG00024132, HG00024394	MK938233, MK954680	Histogenetics, Ossining, USA
C*06:02:01:22	HG00024169	MK938272	Histogenetics, Ossining, USA
C*06:02:01:23	HG00024237	MK954515	Histogenetics, Ossining, USA
C*06:02:01:24	HG00024273	MK954553	Histogenetics, Ossining, USA
C*06:02:01:25	HG00024286	MK954568	Histogenetics, Ossining, USA
C*06:02:01:26	HG00024315, HG00024356, HG00024506	MK954598, MK954639, MK954795	Histogenetics, Ossining, USA
C*06:02:01:27	HG00024402	MK954688	Histogenetics, Ossining, USA
C*06:02:01:28	HG00024414	MK954700	Histogenetics, Ossining, USA
C*06:02:01:29	HG00024553	MN016544	Histogenetics, Ossining, USA
C*06:02:01:30	HG00024645	MN016639	Histogenetics, Ossining, USA
C*06:02:01:31	HG00024702	MN016699	Histogenetics, Ossining, USA
C*06:02:01:32	HG00024709	MN016707	Histogenetics, Ossining, USA
C*06:02:01:33	HG00024712	MN016710	Histogenetics, Ossining, USA
C*06:02:01:34	HG00024807	MN016811	Histogenetics, Ossining, USA
C*06:02:01:35	HG00024864	MN016873	Histogenetics, Ossining, USA
C*06:02:01:36	HG00024915	MN016928	Histogenetics, Ossining, USA
C*06:02:01:37	1121889	MN135637	Antonio Balas, Madrid, Spain
C*06:02:01:38	HG00024105, HG00024896	MK938203, MN016907	Histogenetics, Ossining, USA
C*06:02:01:39	HG00024162	MK938265	Histogenetics, Ossining, USA
C*06:02:01:40	HG00024372, HG00024853	MK954655, MN016860	Histogenetics, Ossining, USA
C*06:02:01:41	HG00024384	MK954668	Histogenetics, Ossining, USA
C*06:02:01:42	HG00025288	MN136837	Histogenetics, Ossining, USA
C*06:02:01:43	HG00024504	MK954792	Histogenetics, Ossining, USA
C*06:02:81	HG00024182	MK938285	Histogenetics, Ossining, USA
C*06:02:82	HG00025310	MN178598	Histogenetics, Ossining, USA
C*06:284	HG00022409	MK844045	Histogenetics, Ossining, USA
C*06:285Q	HG00024053	MK920365	Histogenetics, Ossining, USA
C*06:286	HG00024064, HG00024065	MK920376, MK920377	Histogenetics, Ossining, USA
C*06:287	49865	MN173772	Maria Loginova, Kirov, Russia
C*06:288	HG00025249	MN115518	Histogenetics, Ossining, USA
C*06:289	HG00025283	MN115552	Histogenetics, Ossining, USA
C*06:290	HG00025388	MN251788	Histogenetics, Ossining, USA
C*06:291	2018-271-00970	MN154478	Jonathan Williams, Burlington, USA
C*06:292	2018-271-01083	MN154532	Jonathan Williams, Burlington, USA
C*07:01:01:30	AN300206	LR596415	Steven GE Marsh, London, United Kingdom
C*07:01:01:31	HG00019677, HG00024759, HG00024857	MK954816, MN016761, MN016865	Histogenetics, Ossining, USA
C*07:01:01:32	HG00020265	MK938239	Histogenetics, Ossining, USA
C*07:01:01:33	HG00024103, HG00024782	MK938201, MN016784	Histogenetics, Ossining, USA
C*07:01:01:34	HG00024155	MK938258	Histogenetics, Ossining, USA
C*07:01:01:35	HG00024177	MK938280	Histogenetics, Ossining, USA
C*07:01:01:36	HG00024188, HG00024548	MK938292, MK954839	Histogenetics, Ossining, USA
C*07:01:01:37	HG00024196, HG00024707	MK954471, MN016705	Histogenetics, Ossining, USA
C*07:01:01:38	HG00024212	MK954488	Histogenetics, Ossining, USA
C*07:01:01:39	HG00024228	MK954506	Histogenetics, Ossining, USA
C*07:01:01:40	HG00024267	MK954547	Histogenetics, Ossining, USA
C*07:01:01:41	HG00024271	MK954551	Histogenetics, Ossining, USA
C*07:01:01:42	HG00024297	MK954579	Histogenetics, Ossining, USA
C*07:01:01:43	HG00024337	MK954620	Histogenetics, Ossining, USA
C*07:01:01:44	HG00024340	MK954623	Histogenetics, Ossining, USA
C*07:01:01:45	HG00024413	MK954699	Histogenetics, Ossining, USA
C*07:01:01:46	HG00024426	MK954713	Histogenetics, Ossining, USA
C*07:01:01:47	HG00024427	MK954714	Histogenetics, Ossining, USA
C*07:01:01:48	HG00024438	MK954725	Histogenetics, Ossining, USA
C*07:01:01:49	HG00024445	MK954732	Histogenetics, Ossining, USA
C*07:01:01:50	HG00024467	MK954755	Histogenetics, Ossining, USA
C*07:01:01:51	HG00024473	MK954761	Histogenetics, Ossining, USA
C*07:01:01:52	HG00024476, HG00024530, HG00024859	MK954764, MK954821, MN016867	Histogenetics, Ossining, USA
C*07:01:01:53	HG00024483	MK954771	Histogenetics, Ossining, USA
C*07:01:01:54	HG00024493	MK954781	Histogenetics, Ossining, USA
C*07:01:01:55	HG00024508	MK954797	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*07:01:01:56	HG00024527	MK954818	Histogenetics, Ossining, USA
C*07:01:01:57	HG00024644	MN016638	Histogenetics, Ossining, USA
C*07:01:01:58	HG00024734, HG00024781	MN016735, MN016783	Histogenetics, Ossining, USA
C*07:01:01:59	HG00024786	MN016788	Histogenetics, Ossining, USA
C*07:01:01:60	HG00024790	MN016792	Histogenetics, Ossining, USA
C*07:01:01:61	HG00024796	MN016800	Histogenetics, Ossining, USA
C*07:01:01:62	HG00024816	MN016821	Histogenetics, Ossining, USA
C*07:01:01:63	HG00024828	MN016833	Histogenetics, Ossining, USA
C*07:01:01:64	HG00024881	MN016890	Histogenetics, Ossining, USA
C*07:01:01:65	HG00024910	MN016923	Histogenetics, Ossining, USA
C*07:01:01:66	HG00024125	MK938226	Histogenetics, Ossining, USA
C*07:01:01:67	HG00024144	MK938247	Histogenetics, Ossining, USA
C*07:01:01:68	HG00024202, HG00024320, HG00024351, HG00024851, HG00024863	MK954478, MK954603, MK954634, MN016857, MN016872	Histogenetics, Ossining, USA
C*07:01:01:69	HG00024692, HG00024756	MN016689, MN016758	Histogenetics, Ossining, USA
C*07:01:01:70	HG00024843	MN016849	Histogenetics, Ossining, USA
C*07:01:01:71	HG00024870	MN016879	Histogenetics, Ossining, USA
C*07:01:01:72	HG00024902	MN016915	Histogenetics, Ossining, USA
C*07:01:01:73	VA23	MN296486	Yoginder Pal Singh, Gurugram, India
C*07:01:02:04	HG00024279	MK954560	Histogenetics, Ossining, USA
C*07:01:02:05	HG00024599	MN016592	Histogenetics, Ossining, USA
C*07:01:02:06	HG00024647	MN016641	Histogenetics, Ossining, USA
C*07:01:02:07	HG00024841	MN016847	Histogenetics, Ossining, USA
C*07:01:02:08	HG00024138, HG00024459, HG00024612, HG00024638, HG00024897	MK938240, MK954746, MN016606, MN016632, MN016909	Histogenetics, Ossining, USA
C*07:01:88	31332	MK860180	Kelly Ingram, Winston-Salem, USA
C*07:01:89	HG00025247	MN115516	Histogenetics, Ossining, USA
C*07:01:90	HG00025256	MN115525	Histogenetics, Ossining, USA
C*07:01:91	HG00025260	MN115529	Histogenetics, Ossining, USA
C*07:01:92	HG00025268	MN115537	Histogenetics, Ossining, USA
C*07:01:93	2018-271-01070	MN154524	Jonathan Williams, Burlington, USA
C*07:02:01:43	HG00016922, HG00024837	MK954495, MN016843	Histogenetics, Ossining, USA
C*07:02:01:44	HG00020289, HG00024154, HG00024156, HG00024260, HG00024270, HG00024332, HG00024399, HG00024454, HG00024547, HG00024588, HG00024659, HG00024660, HG00024661, HG00024775, HG00024904	MK954563, MK938257, MK938259, MK954539, MK954550, MK954615, MK954685, MK954741, MK954838, MN016581, MN016655, MN016656, MN016657, MN016777, MN016917	Histogenetics, Ossining, USA
C*07:02:01:45	HG00021853	MN016537	Histogenetics, Ossining, USA
C*07:02:01:46	HG00024112	MK938210	Histogenetics, Ossining, USA
C*07:02:01:47	HG00024128, HG00024131, HG00024419	MK938229, MK938232, MK954705	Histogenetics, Ossining, USA
C*07:02:01:48	HG00024129, HG00024209, HG00024235, HG00024710	MK938230, MK954485, MK954513, MN016708	Histogenetics, Ossining, USA
C*07:02:01:49	HG00024143	MK938246	Histogenetics, Ossining, USA
C*07:02:01:50	HG00024148, HG00024215	MK938251, MK954491	Histogenetics, Ossining, USA
C*07:02:01:51	HG00024152, HG00024158, HG00024377, HG00024570, HG00024733, HG00024803, HG00024858, HG00024866	MK938255, MK938261, MK954660, MN016562, MN016733, MN016807, MN016866, MN016875	Histogenetics, Ossining, USA
C*07:02:01:52	HG00024157, HG00024275, HG00024622	MK938260, MK954556, MN016616	Histogenetics, Ossining, USA
C*07:02:01:53	HG00024198, HG00024805	MK954474, MN016809	Histogenetics, Ossining, USA
C*07:02:01:54	HG00024203	MK954479	Histogenetics, Ossining, USA
C*07:02:01:55	HG00024214, HG00024403	MK954490, MK954689	Histogenetics, Ossining, USA
C*07:02:01:56	HG00024220, HG00024716, HG00024776	MK954497, MN016715, MN016778	Histogenetics, Ossining, USA
C*07:02:01:57	HG00024221	MK954498	Histogenetics, Ossining, USA
C*07:02:01:58	HG00024281	MK954562	Histogenetics, Ossining, USA
C*07:02:01:59	HG00024298	MK954580	Histogenetics, Ossining, USA
C*07:02:01:60	HG00024339, HG00024430	MK954622, MK954717	Histogenetics, Ossining, USA
C*07:02:01:61	HG00024341, HG00024475	MK954624, MK954763	Histogenetics, Ossining, USA
C*07:02:01:62	HG00024365	MK954648	Histogenetics, Ossining, USA
C*07:02:01:63	HG00024369	MK954652	Histogenetics, Ossining, USA
C*07:02:01:64	HG00024376	MK954659	Histogenetics, Ossining, USA
C*07:02:01:65	HG00024389, HG00024801	MK954674, MN016805	Histogenetics, Ossining, USA
C*07:02:01:66	HG00024393	MK954679	Histogenetics, Ossining, USA
C*07:02:01:67	HG00024417	MK954703	Histogenetics, Ossining, USA
C*07:02:01:68	HG00024446, HG00024758	MK954733, MN016760	Histogenetics, Ossining, USA
C*07:02:01:69	HG00024450	MK954737	Histogenetics, Ossining, USA
C*07:02:01:70	HG00024455	MK954742	Histogenetics, Ossining, USA
C*07:02:01:71	HG00024458	MK954745	Histogenetics, Ossining, USA
C*07:02:01:72	HG00024494	MK954782	Histogenetics, Ossining, USA
C*07:02:01:73	HG00024514	MK954804	Histogenetics, Ossining, USA
C*07:02:01:74Q	HG00024519, HG00024818	MK954809, MN016823	Histogenetics, Ossining, USA
C*07:02:01:75	HG00024540, HG00024596	MK954831, MN016589	Histogenetics, Ossining, USA
C*07:02:01:76	HG00024568	MN016560	Histogenetics, Ossining, USA
C*07:02:01:77	HG00024578	MN016570	Histogenetics, Ossining, USA
C*07:02:01:78	HG00024589, HG00024909	MN016582, MN016922	Histogenetics, Ossining, USA
C*07:02:01:79	HG00024600, HG00024810	MN016593, MN016814	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*07:02:01:80	HG00024643	MN016637	Histogenetics, Ossining, USA
C*07:02:01:81	HG00024718	MN016717	Histogenetics, Ossining, USA
C*07:02:01:82	HG00024720	MN016719	Histogenetics, Ossining, USA
C*07:02:01:83	HG00024822	MN016827	Histogenetics, Ossining, USA
C*07:02:01:84	HG00024872	MN016881	Histogenetics, Ossining, USA
C*07:02:01:85	HG00023160	MN016799	Histogenetics, Ossining, USA
C*07:02:01:86	HG00024227	MK954505	Histogenetics, Ossining, USA
C*07:02:01:87	HG00024391	MK954677	Histogenetics, Ossining, USA
C*07:02:01:88	HG00024541	MK954832	Histogenetics, Ossining, USA
C*07:02:01:89	HG00024844	MN016850	Histogenetics, Ossining, USA
C*07:02:01:90	HG00025030	MN053465	Histogenetics, Ossining, USA
C*07:02:01:91	HG00025040	MN053477	Histogenetics, Ossining, USA
C*07:02:01:92	HG00025299	MN136848	Histogenetics, Ossining, USA
C*07:02:01:93	HG00024095	MK938193	Histogenetics, Ossining, USA
C*07:02:117	HG00024074	MK920386	Histogenetics, Ossining, USA
C*07:02:118	HG00024079	MK920391	Histogenetics, Ossining, USA
C*07:02:119	HG00025272	MN115541	Histogenetics, Ossining, USA
C*07:02:120	HG00025284	MN115553	Histogenetics, Ossining, USA
C*07:04:01:05	HG00021485	MN016740	Histogenetics, Ossining, USA
C*07:04:01:06	HG00024327	MK954610	Histogenetics, Ossining, USA
C*07:04:01:07	HG00024428	MK954715	Histogenetics, Ossining, USA
C*07:04:01:08	HG00024463, HG00025034	MK954751, MN053470	Histogenetics, Ossining, USA
C*07:04:01:09	HG00024558	MN016549	Histogenetics, Ossining, USA
C*07:04:01:10	HG00024183, HG00024185, HG00024186, HG00024187, HG00024190, HG00024296, HG00024415, HG00024498, HG00024544, HG00024563, HG00024706, HG00024729, HG00024787	MK938286, MK938288, MK938289, MK938291, MK938294, MK954578, MK954701, MK954786, MK954835, MN016555, MN016704, MN016729, MN016789	Histogenetics, Ossining, USA
C*07:04:01:11	HG00024674	MN016670	Histogenetics, Ossining, USA
C*07:06:01:03	HG00024236	MK954514	Histogenetics, Ossining, USA
C*07:06:01:04	HG00024292	MK954574	Histogenetics, Ossining, USA
C*07:06:01:05Q	HG00024379	MK954663	Histogenetics, Ossining, USA
C*07:06:01:06	NG36_NK_149P	MN187923	Uma Kanga, New Delhi, India
C*07:06:01:07	HG00024088	MK938186	Histogenetics, Ossining, USA
C*07:06:01:08	HG00024122	MK938223	Histogenetics, Ossining, USA
C*07:17:01:02	HG00024511, HG00024525	MK954800, MK954815	Histogenetics, Ossining, USA
C*07:18:05	HG00022533, HG00024075	MK890199, MK920387	Histogenetics, Ossining, USA
C*07:26:01:02	HG00024533	MK954824	Histogenetics, Ossining, USA
C*07:29:01:02	HG00024329	MK954612	Histogenetics, Ossining, USA
C*07:729:01:02	2018-271-01091	MN154539	Jonathan Williams, Burlington, USA
C*07:818	HG00018432	MH924920	Histogenetics, Ossining, USA
C*07:819Q	HG00020951	MK457721	Histogenetics, Ossining, USA
C*07:820N	HG00022526	MK890192	Histogenetics, Ossining, USA
C*07:821N	HG00022528	MK890194	Histogenetics, Ossining, USA
C*07:822	HG00024886	MN016895	Histogenetics, Ossining, USA
C*07:823	HG00025036	MN053473	Histogenetics, Ossining, USA
C*07:824	HG00025043	MN053480	Histogenetics, Ossining, USA
C*07:825	HG00025044	MN053481	Histogenetics, Ossining, USA
C*07:826	HG00025049	MN053486	Histogenetics, Ossining, USA
C*07:827	CMC01	MN105084	So-Jung Choi, Seoul, South Korea
C*07:828	5771800924	MN149352	Faming Zhu, Hangzhou, China
C*07:829	P139902326E	MN203124	Jonathan Downing, Perth, Australia
C*07:830	60790792	MN199034	Antonio Balas, Madrid, Spain
C*07:831	HG00025250	MN115519	Histogenetics, Ossining, USA
C*07:832	HG00025277	MN115546	Histogenetics, Ossining, USA
C*07:833	HG00025281	MN115550	Histogenetics, Ossining, USA
C*07:834	HG00025298	MN136847	Histogenetics, Ossining, USA
C*07:835	INCA1036500	MN167545	Matilde Romero, Rio de Janeiro, Brazil
C*07:836	2018-271-01077	MN154527	Jonathan Williams, Burlington, USA
C*07:837	JSCF7094	MN337294	Seshasubramanian Vani, Chennai, India
C*07:93:02	P6224CT	MN037883	Vinicius Stelet, Rio de Janeiro, Brazil
C*08:01:01:05	HG00024080, HG00024121, HG00024130, HG00024133, HG00024137, HG00024149, HG00024216, HG00024288, HG00024367, HG00024387, HG00024470, HG00024573, HG00024690, HG00024762	MK938178, MK938222, MK938231, MK938234, MK938238, MK938252, MK954492, MK954570, MK954650, MK954671, MK954758, MN016565, MN016686, MN016764	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*08:01:01:06	HG00024140, HG00024168, HG00024200, HG00024409, HG00024488, HG00024521, HG00024565, HG00024577, HG00024719, HG00024754, HG00024760, HG00024785, HG00024815	MK938243, MK938271, MK954476, MK954695, MK954776, MK954811, MN016557, MN016569, MN016718, MN016756, MN016762, MN016787, MN016820	Histogenetics, Ossining, USA
C*08:01:01:07	HG00024147	MK938250	Histogenetics, Ossining, USA
C*08:01:01:08	HG00024397	MK954683	Histogenetics, Ossining, USA
C*08:01:01:09	HG00025285	MN136834	Histogenetics, Ossining, USA
C*08:02:01:06	HG00024151	MK938254	Histogenetics, Ossining, USA
C*08:02:01:07	HG00024199, HG00024250, HG00024862, HG00024905	MK954475, MK954528, MN016870, MN016918	Histogenetics, Ossining, USA
C*08:02:01:08	HG00024229, HG00024755	MK954507, MN016757	Histogenetics, Ossining, USA
C*08:02:01:09	HG00024234, HG00024423, HG00024662	MK954512, MK954709, MN016658	Histogenetics, Ossining, USA
C*08:02:01:10	HG00024246, HG00024326	MK954524, MK954609	Histogenetics, Ossining, USA
C*08:02:01:11	HG00024290	MK954572	Histogenetics, Ossining, USA
C*08:02:01:12	HG00024348	MK954631	Histogenetics, Ossining, USA
C*08:02:01:13	HG00024349, HG00024361, HG00024821	MK954632, MK954644, MN016826	Histogenetics, Ossining, USA
C*08:02:01:14	HG00024374, HG00024466, HG00024469, HG00024542, HG00024829	MK954657, MK954754, MK954757, MK954833, MN016834	Histogenetics, Ossining, USA
C*08:02:01:15	HG00024375, HG00024513	MK954658, MK954802	Histogenetics, Ossining, USA
C*08:02:01:16	HG00024421, HG00024442, HG00024569, HG00024752	MK954707, MK954729, MN016561, MN016754	Histogenetics, Ossining, USA
C*08:02:01:17	HG00024523	MK954813	Histogenetics, Ossining, USA
C*08:02:01:18	HG00024701	MN016698	Histogenetics, Ossining, USA
C*08:02:01:19	HG00024783	MN016785	Histogenetics, Ossining, USA
C*08:02:01:20	HG00024431	MK954718	Histogenetics, Ossining, USA
C*08:02:01:21	HG00025294	MN136843	Histogenetics, Ossining, USA
C*08:02:01:22	HG00024189	MK938293	Histogenetics, Ossining, USA
C*08:02:28	HG00025263	MN115532	Histogenetics, Ossining, USA
C*08:02:29	HG00025295	MN136844	Histogenetics, Ossining, USA
C*08:12:01:02	HG00024478	MK954766	Histogenetics, Ossining, USA
C*08:201	HG00022524	MK890190	Histogenetics, Ossining, USA
C*08:202	HG00025038	MN053475	Histogenetics, Ossining, USA
C*08:203	HG00025312	MN178600	Histogenetics, Ossining, USA
C*08:204	MDRI026	MN029023	Meetali Morjaria, Mumbai, India
C*08:205	2018-271-00958	MN154471	Jonathan Williams, Burlington, USA
C*08:206	2018-271-01106	MN154548	Jonathan Williams, Burlington, USA
C*12:02:02:04	HG00024123	MK938224	Histogenetics, Ossining, USA
C*12:02:02:05	HG00024136	MK938237	Histogenetics, Ossining, USA
C*12:02:02:06	HG00024175	MK938278	Histogenetics, Ossining, USA
C*12:02:02:07	HG00025039	MN053476	Histogenetics, Ossining, USA
C*12:02:02:08	HG00024321	MK954604	Histogenetics, Ossining, USA
C*12:02:33	HG00024061	MK920373	Histogenetics, Ossining, USA
C*12:02:34	2018-271-01043	MN154511	Jonathan Williams, Burlington, USA
C*12:03:01:14	BY01806	MN032102	Carolyn K Hurley, Washington DC, USA
C*12:03:01:14	HG00024358, HG00024764, HG00024824, HG00024832	MK954641, MN016766, MN016829, MN016837	Histogenetics, Ossining, USA
C*12:03:01:15	HG00024111	MK938209	Histogenetics, Ossining, USA
C*12:03:01:16	HG00024134	MK938235	Histogenetics, Ossining, USA
C*12:03:01:17	HG00024176	MK938279	Histogenetics, Ossining, USA
C*12:03:01:18	HG00024238	MK954516	Histogenetics, Ossining, USA
C*12:03:01:19	HG00024258	MK954536	Histogenetics, Ossining, USA
C*12:03:01:20	HG00024383	MK954667	Histogenetics, Ossining, USA
C*12:03:01:21	HG00024434	MK954721	Histogenetics, Ossining, USA
C*12:03:01:22	HG00024447, HG00024728	MK954734, MN016728	Histogenetics, Ossining, USA
C*12:03:01:23	HG00024448	MK954735	Histogenetics, Ossining, USA
C*12:03:01:24	HG00024597	MN016590	Histogenetics, Ossining, USA
C*12:03:01:25	HG00024626	MN016620	Histogenetics, Ossining, USA
C*12:03:01:26	HG00024637	MN016631	Histogenetics, Ossining, USA
C*12:03:01:27	HG00024672	MN016668	Histogenetics, Ossining, USA
C*12:03:01:28	HG00024675, HG00024704	MN016671, MN016702	Histogenetics, Ossining, USA
C*12:03:01:29	HG00024767	MN016769	Histogenetics, Ossining, USA
C*12:03:01:30	HG00024808	MN016812	Histogenetics, Ossining, USA
C*12:03:01:31	HG00024102	MK938200	Histogenetics, Ossining, USA
C*12:03:01:32	HG00025232	MN075182	Histogenetics, Ossining, USA
C*12:04:02:02	HG00024145	MK938248	Histogenetics, Ossining, USA
C*12:295N	HG00022527	MK890193	Histogenetics, Ossining, USA
C*12:296	HG00024063	MK920375	Histogenetics, Ossining, USA
C*12:297	HG00024070	MK920382	Histogenetics, Ossining, USA
C*12:298	HG00024071	MK920383	Histogenetics, Ossining, USA
C*12:299N	011913602553A	MN107020	Faisal Aloufi, Riyadh, Saudi Arabia
C*12:300	HG00025031	MN053466	Histogenetics, Ossining, USA
C*12:301	HG00025269	MN115538	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*12:302	HG00025273	MN115542	Histogenetics, Ossining, USA
C*12:303	HG00025313	MN206082	Histogenetics, Ossining, USA
C*12:304	JSCF7235	MN337296	Seshasubramanian Vani, Chennai, India
C*14:02:01:10	HG00024222	MK954499	Histogenetics, Ossining, USA
C*14:02:01:11	HG00024230	MK954508	Histogenetics, Ossining, USA
C*14:02:01:12	HG00024309	MK954591	Histogenetics, Ossining, USA
C*14:02:01:13	HG00024526	MK954817	Histogenetics, Ossining, USA
C*14:02:01:14	HG00024592	MN016585	Histogenetics, Ossining, USA
C*14:02:01:15	HG00024595, HG00024607	MN016588, MN016601	Histogenetics, Ossining, USA
C*14:02:01:16	HG00024653, HG00024654, HG00024666, HG00024667, HG00024668	MN016647, MN016648, MN016662, MN016663, MN016664	Histogenetics, Ossining, USA
C*14:02:01:17	HG00025235	MN075185	Histogenetics, Ossining, USA
C*14:02:34	E3309	MN058985	Vinicius Stelet, Rio de Janeiro, Brazil
C*14:03:01:02	HG00025300	MN136849	Histogenetics, Ossining, USA
C*14:116	JRC-D08-124	LC489137	Masahiro Satake, Tokyo, Japan
C*15:02:01:11	HG00024083, HG00024114, HG00024836	MK938181, MK938212, MN016842	Histogenetics, Ossining, USA
C*15:02:01:12	HG00024119, HG00024218	MK938220, MK954494	Histogenetics, Ossining, USA
C*15:02:01:13	HG00024153, HG00024353, HG00024420, HG00024472, HG00024503	MK938256, MK954636, MK954706, MK954760, MK954791	Histogenetics, Ossining, USA
C*15:02:01:14	HG00024173	MK938276	Histogenetics, Ossining, USA
C*15:02:01:15	HG00024239	MK954517	Histogenetics, Ossining, USA
C*15:02:01:16	HG00024390	MK954676	Histogenetics, Ossining, USA
C*15:02:01:17	HG00024432, HG00024520	MK954719, MK954810	Histogenetics, Ossining, USA
C*15:02:01:18	HG00024481	MK954769	Histogenetics, Ossining, USA
C*15:02:01:19	HG00024538	MK954829	Histogenetics, Ossining, USA
C*15:02:01:20	HG00024539	MK954830	Histogenetics, Ossining, USA
C*15:02:01:21	HG00024780	MN016782	Histogenetics, Ossining, USA
C*15:02:01:22	HG00024784	MN016786	Histogenetics, Ossining, USA
C*15:02:01:23	UU01	MN296484	Yoginder Pal Singh, Gurugram, India
C*15:02:43	P5963CT	MN082197	Vinicius Stelet, Rio de Janeiro, Brazil
C*15:02:44	2018-271-00959	MN154472	Jonathan Williams, Burlington, USA
C*15:04:01:02	HG00018091	MK954712	Histogenetics, Ossining, USA
C*15:04:01:03	HG00024495	MK954783	Histogenetics, Ossining, USA
C*15:05:02:03	BY01825	MN038172	Carolyn K Hurley, Washington DC, USA
C*15:05:02:03	HG00024109, HG00024141, HG00024180, HG00024342, HG00024404, HG00024532, HG00024561, HG00024582, HG00024618, HG00024689, HG00024741, HG00024842	MK938207, MK938244, MK938283, MK954625, MK954690, MK954823, MN016552, MN016574, MN016612, MN016685, MN016743, MN016848	Histogenetics, Ossining, USA
C*15:05:02:04	HG00024097	MK938195	Histogenetics, Ossining, USA
C*15:05:02:05	HG00024171	MK938274	Histogenetics, Ossining, USA
C*15:05:02:06	HG00024789	MN016791	Histogenetics, Ossining, USA
C*15:05:02:07	HG00024850	MN016856	Histogenetics, Ossining, USA
C*15:05:02:08	HG00024282	MK954564	Histogenetics, Ossining, USA
C*15:07:01:02	HG00024100	MK938198	Histogenetics, Ossining, USA
C*15:204	HG00022532	MK890198	Histogenetics, Ossining, USA
C*15:205	HG00025289	MN136838	Histogenetics, Ossining, USA
C*15:206	HG00025309	MN178597	Histogenetics, Ossining, USA
C*15:207	2019-2262	MN307885	Mauro Castagnetta, Genova, Italy
C*16:01:01:07	1121593	MK993754	Antonio Balas, Madrid, Spain
C*16:01:01:08	HG00016271	MK954662	Histogenetics, Ossining, USA
C*16:01:01:09	HG00024096	MK938194	Histogenetics, Ossining, USA
C*16:01:01:10	HG00024181	MK938284	Histogenetics, Ossining, USA
C*16:01:01:11	HG00024219, HG00024835	MK954496, MN016841	Histogenetics, Ossining, USA
C*16:01:01:12	HG00024256	MK954534	Histogenetics, Ossining, USA
C*16:01:01:13	HG00024436	MK954723	Histogenetics, Ossining, USA
C*16:01:01:14	HG00024518, HG00024566	MK954808, MN016558	Histogenetics, Ossining, USA
C*16:01:01:15	HG00024724	MN016724	Histogenetics, Ossining, USA
C*16:01:36	HG00022404	MK844040	Histogenetics, Ossining, USA
C*16:02:01:02	HG00024591	MN016584	Histogenetics, Ossining, USA
C*16:04:01:03	HG00024912	MN016925	Histogenetics, Ossining, USA
C*16:163	HG00022530	MK890196	Histogenetics, Ossining, USA
C*16:164	HG00025037	MN053474	Histogenetics, Ossining, USA
C*17:01:01:07	HG00024557	MN016548	Histogenetics, Ossining, USA
C*17:01:01:08	HG00024562, HG00024684, HG00024802	MN016553, MN016680, MN016806	Histogenetics, Ossining, USA
C*17:01:01:09	HG00024635	MN016629	Histogenetics, Ossining, USA
C*17:03:01:05	HG00024462, HG00024629, HG00024833	MK954750, MN016623, MN016838	Histogenetics, Ossining, USA
C*17:50	HG00022525	MK890191	Histogenetics, Ossining, USA
C*17:51:01:01	HG00020606	MK257861	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*17:51:01:02	HG00020739	MK309024	Histogenetics, Ossining, USA
C*18:01:01:02	HG00025246	MN115515	Histogenetics, Ossining, USA
C*18:02:01:02	HG00024164, HG00024457, HG00024623, HG00024876	MK938267, MK954744, MN016617, MN016885	Histogenetics, Ossining, USA
C*18:14	BY01689	MN056334	Carolyn K Hurley, Washington DC, USA
E*01:03:01:07	SZBC-Z20	MN125602	Yunping Xu, Shenzhen, China
E*01:14	SZBC-Z20	MK940539	Yunping Xu, Shenzhen, China
DRA*01:01:01:04	MUMC98	LR606274	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:01:01:05	MUMC17728	LR606275	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:01:01:06	MUMC17728	LR606125	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:01:01:07	MUMC20910	LR606131	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:01:01:08	MUMC23030	LR606279	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:01:01:09	MUMC24673	LR606283	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:01:01:10	MUMC25945	LR606276	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:01:01:11	MUMC47506	LR606285	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:01:01:12	MUMC47506	LR606280	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:02	MUMC152	LR606123	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:03	MUMC2271	LR606130	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:04	MUMC8394	LR606132	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:05	MUMC19583	LR606129	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:06	MUMC19583	LR606128	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:07	MUMC20492	LR606124	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:08	MUMC22611	LR606127	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:09	MUMC25689	LR606278	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:10	MUMC25945	LR606277	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:11	MUMC39183	LR606126	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:12	MUMC39183	LR606281	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:13	MUMC45817	LR606282	Marcel GJ Tilanus, Maastricht, The Netherlands
DRA*01:02:02:14	MUMC47732	LR606122	Marcel GJ Tilanus, Maastricht, The Netherlands
DRB1*01:01:01:02	AN300210	MN068246	Steven GE Marsh, London, United Kingdom
DRB1*01:02:01:03	MZ070782, PMG075	LR585305, LR585313	Steven GE Marsh, London, United Kingdom
DRB1*01:108	HG00015202	MG805429	Histogenetics, Ossining, USA
DRB1*01:109	HG00025353, HG00025382	MN115434, MK650301	Histogenetics, Ossining, USA
DRB1*01:110	HG00025610	MN136855	Histogenetics, Ossining, USA
DRB1*01:62:02N	HG00025356	MN178601	Histogenetics, Ossining, USA
DRB1*03:01:29	HG00022557	MK890207	Histogenetics, Ossining, USA
DRB1*03:164	HG00017162	MH544410	Histogenetics, Ossining, USA
DRB1*03:165	HG00022461	MK844051	Histogenetics, Ossining, USA
DRB1*03:166	HG00013793	MG584077	Histogenetics, Ossining, USA
DRB1*03:167	HG00014585	MG756892	Histogenetics, Ossining, USA
DRB1*03:168	HG00025351	MN075163	Histogenetics, Ossining, USA
DRB1*03:169	HG00025524	MH173628	Histogenetics, Ossining, USA
DRB1*03:170	HG00025612	MN206093	Histogenetics, Ossining, USA
DRB1*03:52:02	HG00025355	MN136854	Histogenetics, Ossining, USA
DRB1*04:01:22	81203301	MN128716	Daniel Fuerst, Ulm, Germany
DRB1*04:03:16	HG00025358	MN178603	Histogenetics, Ossining, USA
DRB1*04:05:01:04	LKT3	LR585299	Steven GE Marsh, London, United Kingdom

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
<i>DRB1</i> *04:293	HG00022559	MK890209	Histogenetics, Ossining, USA
<i>DRB1</i> *04:294	HG00022560	MK890210	Histogenetics, Ossining, USA
<i>DRB1</i> *04:295	HG00024970	MK937960	Histogenetics, Ossining, USA
<i>DRB1</i> *04:296	HG00024972	MN016167	Histogenetics, Ossining, USA
<i>DRB1</i> *04:297	82058	MN149421	Vinicius Stelet, Rio de Janeiro, Brazil
<i>DRB1</i> *04:298	2018-271-01025	MN154505	Jonathan Williams, Burlington, USA
<i>DRB1</i> *04:299N	HG00024974	MN016169	Histogenetics, Ossining, USA
<i>DRB1</i> *04:300N	HG00025357	MN178602	Histogenetics, Ossining, USA
<i>DRB1</i> *04:301	HG00025381	MK353240	Histogenetics, Ossining, USA
<i>DRB1</i> *07:01:23	XIANBC0003	MN295058	Jun Qi, Xian, China
<i>DRB1</i> *07:108	HG00014593	MG756900	Histogenetics, Ossining, USA
<i>DRB1</i> *07:109	HG00025513	MG930661	Histogenetics, Ossining, USA
<i>DRB1</i> *07:110	HG00025518	MH173603	Histogenetics, Ossining, USA
<i>DRB1</i> *07:111	HG00025574	MK143900	Histogenetics, Ossining, USA
<i>DRB1</i> *08:03:02:03	LUY	LR585301	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *08:09:02	HG00024976	MN016171	Histogenetics, Ossining, USA
<i>DRB1</i> *08:100	HG00025572	MK143887	Histogenetics, Ossining, USA
<i>DRB1</i> *08:98	HG00024977	MN016172	Histogenetics, Ossining, USA
<i>DRB1</i> *08:99	2018-271-01096	MN154542	Jonathan Williams, Burlington, USA
<i>DRB1</i> *09:01:02:03	HID, KT12, T7526, T7527, GRC-212, LKT14, DRH001, ISK, DKB	LR585275, LR585284, LR585322, LR585325, LR585273, LR585287, LR585263, LR585278, LR585261	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *09:01:02:04	KT12	LR585285	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *09:42	2018-271-01121	MN154559	Jonathan Williams, Burlington, USA
<i>DRB1</i> *09:43	HG00025606	MK500632	Histogenetics, Ossining, USA
<i>DRB1</i> *09:44	XIANBC0004	MN295059	Jun Qi, Xian, China
<i>DRB1</i> *10:01:14	HG00025359	MN206092	Histogenetics, Ossining, USA
<i>DRB1</i> *11:01:39	HG00025588	MK309085	Histogenetics, Ossining, USA
<i>DRB1</i> *11:02:01:02	BM15	LR585246	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *11:261	271635	KY420904	Raquel Fabreti, Belo Horizonte, Brazil
<i>DRB1</i> *11:262	5771800318	MN055484	Faming Zhu, Hangzhou, China
<i>DRB1</i> *11:263	HG00024967	MK920337	Histogenetics, Ossining, USA
<i>DRB1</i> *11:264	HG00025354	MN136853	Histogenetics, Ossining, USA
<i>DRB1</i> *11:265	HG00025575	MK143902	Histogenetics, Ossining, USA
<i>DRB1</i> *11:266	HG00025582	MK192146	Histogenetics, Ossining, USA
<i>DRB1</i> *11:28:03	HG00025581	MK192145	Histogenetics, Ossining, USA
<i>DRB1</i> *12:02:01:05	LIE	LR585294	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *12:02:01:06	PETCH, LIE	LR585309, LR585295	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *12:02:10	XIANBC0002	MN295057	Jun Qi, Xian, China
<i>DRB1</i> *12:81	HG00025609	MN136852	Histogenetics, Ossining, USA
<i>DRB1</i> *12:82	1910436837	MN251798	Jonathan Visentin, Bordeaux, France
<i>DRB1</i> *13:01:01:03	CB6B	LR585252	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *13:01:28	HG00025556	MH779103	Histogenetics, Ossining, USA
<i>DRB1</i> *13:02:01:04	CC	LR585254	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *13:02:01:05	SLE005, EMJ	LR585318, LR585267	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *13:286	271633	KY420903	Raquel Fabreti, Belo Horizonte, Brazil
<i>DRB1</i> *13:287	HG00022558	MK890208	Histogenetics, Ossining, USA
<i>DRB1</i> *13:288	JSCR1854	MN056825	Seshasubramanian Vani, Chennai, India
<i>DRB1</i> *13:289N	AN290908	MK798158	Elena Longhi, Milano, Italy
<i>DRB1</i> *13:290	HG00024978	MN016173	Histogenetics, Ossining, USA
<i>DRB1</i> *13:291	HG00025379	MK095483	Histogenetics, Ossining, USA
<i>DRB1</i> *13:292	HG00025525	MH173629	Histogenetics, Ossining, USA
<i>DRB1</i> *13:293	HG00025554	MH779081	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
<i>DRB1</i> *13:294	HG00025583	MK225491	Histogenetics, Ossining, USA
<i>DRB1</i> *13:295N	HG00025611	MN166925	Histogenetics, Ossining, USA
<i>DRB1</i> *14:04:01:02	KGU	LR585280	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *14:214	HG00024975	MN016170	Histogenetics, Ossining, USA
<i>DRB1</i> *14:215	HG00025380	MK300310	Histogenetics, Ossining, USA
<i>DRB1</i> *14:216	HG00025514	MG930662	Histogenetics, Ossining, USA
<i>DRB1</i> *14:217	HG00025579	MK143936	Histogenetics, Ossining, USA
<i>DRB1</i> *14:218	HG00025608	MK937961	Histogenetics, Ossining, USA
<i>DRB1</i> *14:219	2018-271-01089	MN154537	Jonathan Williams, Burlington, USA
<i>DRB1</i> *14:54:01:05	KOSE	LR585282	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *14:54:09	JXZJ20180312008	MN066312	Faming Zhu, Hangzhou, China
<i>DRB1</i> *15:02:01:04	KWO010 (KAPA), CAM020	LR585289, LR585250	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *15:02:01:05	PAR	LR585306	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *15:171:02	SJ18-377	MK908047	Po-Chien Chou, Memphis, USA
<i>DRB1</i> *15:176N	4121591	MK993753	Antonio Balas, Madrid, Spain
<i>DRB1</i> *15:177	P5919CT	MN082196	Vinicius Stelet, Rio de Janeiro, Brazil
<i>DRB1</i> *15:178	1910273127	MN102363	Jonathan Visentin, Bordeaux, France
<i>DRB1</i> *15:179	HG00013930	MG724902	Histogenetics, Ossining, USA
<i>DRB1</i> *15:180N	HG00015190	MG769847	Histogenetics, Ossining, USA
<i>DRB1</i> *15:181	HG00022564	MH173593	Histogenetics, Ossining, USA
<i>DRB1</i> *15:182	HG00025533	MH294684	Histogenetics, Ossining, USA
<i>DRB1</i> *15:183N	2018-271-01087	MN154536	Jonathan Williams, Burlington, USA
<i>DRB1</i> *16:02:01:04	DEM	LR585260	Steven GE Marsh, London, United Kingdom
<i>DRB1</i> *16:61	HG00024966	MK920336	Histogenetics, Ossining, USA
<i>DRB1</i> *16:62N	HG00025352	MN115433	Histogenetics, Ossining, USA
<i>DRB1</i> *16:63N	2018-271-00990	MN154490	Jonathan Williams, Burlington, USA
<i>DRB3</i> *01:01:11	HG00022476	MK844066	Histogenetics, Ossining, USA
<i>DRB3</i> *01:01:12	HG00025368	MN115439	Histogenetics, Ossining, USA
<i>DRB3</i> *01:01:13	HG00025372	MN178561	Histogenetics, Ossining, USA
<i>DRB3</i> *01:01:14	HG00025619	MK844067	Histogenetics, Ossining, USA
<i>DRB3</i> *01:62:01:02	CWDRB3	MN228502	Amanda Willis, Dallas, USA
<i>DRB3</i> *01:84	HG00025364	MN075161	Histogenetics, Ossining, USA
<i>DRB3</i> *02:02:23	1910224648	MN163044	Jonathan Visentin, Bordeaux, France
<i>DRB3</i> *02:02:24	HG00022473	MK844063	Histogenetics, Ossining, USA
<i>DRB3</i> *02:129	HG00022475	MK844065	Histogenetics, Ossining, USA
<i>DRB3</i> *02:130	HG00024983	MN016144	Histogenetics, Ossining, USA
<i>DRB3</i> *02:131	HG00025059	MN053512	Histogenetics, Ossining, USA
<i>DRB3</i> *02:132	19211473	MN068223	Daniel Fuerst, Ulm, Germany
<i>DRB3</i> *02:133	31717	MN070229	Kelly Ingram, Winston-Salem, USA
<i>DRB3</i> *02:134	HG00025374	MN206091	Histogenetics, Ossining, USA
<i>DRB3</i> *02:135	19215002	MN307456	Daniel Fuerst, Ulm, Germany
<i>DRB3</i> *03:37	1910196596	MN013151	Jonathan Visentin, Bordeaux, France
<i>DRB3</i> *03:38	HG00018079	MH758855	Histogenetics, Ossining, USA
<i>DRB3</i> *03:39	HG00022478	MK844069	Histogenetics, Ossining, USA
<i>DRB3</i> *03:40	HG00024981	MK920338	Histogenetics, Ossining, USA
<i>DRB3</i> *03:41	HG00024987	MN016148	Histogenetics, Ossining, USA
<i>DRB4</i> *01:01:09	HG00022561	MK890161	Histogenetics, Ossining, USA
<i>DRB4</i> *01:03:16	HG00024988	MN016165	Histogenetics, Ossining, USA
<i>DRB4</i> *01:03:17	HG00025061	MN053461	Histogenetics, Ossining, USA
<i>DRB4</i> *01:03:18	HG00025631	MK143693	Histogenetics, Ossining, USA
<i>DRB4</i> *01:117	HG00018617	MH924968	Histogenetics, Ossining, USA
<i>DRB4</i> *01:118	HG00025060	MN053460	Histogenetics, Ossining, USA
<i>DRB4</i> *01:119	HG00025633	MK300461	Histogenetics, Ossining, USA
<i>DRB4</i> *01:120	HG00025634	MK920356	Histogenetics, Ossining, USA
<i>DRB4</i> *01:121N	HG00025635	MN115464	Histogenetics, Ossining, USA
<i>DRB5</i> *01:83N	HG00024992	MN016164	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
DQA1*01:01:01:08	HLA-UERJ-1213055	MN208445	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*01:01:06	HG00021592	MK607126	Histogenetics, Ossining, USA
DQA1*01:02:01:14	HLA-UERJ-100770	MN208443	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*01:02:02:05	HLA-UERJ-98516	MN153777	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*01:02:06	31575	MK936899	Kelly Ingram, Winston-Salem, USA
DQA1*01:02:07	HG00024952	MK920363	Histogenetics, Ossining, USA
DQA1*01:02:08	HG00025332	MN136858	Histogenetics, Ossining, USA
DQA1*01:03:01:10	HLA-UERJ-97940	MN173662	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*01:05:01:02	HLA-UERJ-101846	MN153778	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*01:40Q	HG00024953	MK920364	Histogenetics, Ossining, USA
DQA1*01:41	19210518	MN082718	Daniel Fuerst, Ulm, Germany
DQA1*01:42	31718	MN070230	Kelly Ingram, Winston-Salem, USA
DQA1*01:43	19213824	MN240559	Daniel Fuerst, Ulm, Germany
DQA1*02:07	Z42088	MK784572	Sarah Blow, London, United Kingdom
DQA1*02:08	HG00022548, HG00022549	MK890163, MK890164	Histogenetics, Ossining, USA
DQA1*02:09	HG00024950, HG00024951	MK920361, MK920362	Histogenetics, Ossining, USA
DQA1*02:10	HG00025054	MN053455	Histogenetics, Ossining, USA
DQA1*03:03:01:08	HLA-UERJ-94593	MN153779	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*03:03:01:09	HLA-UERJ-99391	MN153780	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*03:03:01:10	HLA-UERJ-100666	MN153781	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*03:03:01:11	HLA-UERJ-100680	MN173664	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*03:11	65172053676	MK953625	Gerald Bertrand, Rennes Cedex, France
DQA1*03:12	HG00024955	MN016183	Histogenetics, Ossining, USA
DQA1*04:01:01:09	HLA-UERJ-102967, HLA-UERJ-C2333	MN125340	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*04:07	SJHL18-653	MN067220	Po-Chien Chou, Memphis, USA
DQA1*05:05:01:22	HLA-UERJ-C2335	MN153782	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*05:05:01:23	HLA-UERJ-C2409	MN208447	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*05:05:01:24	HLA-UERJ-103097	MN314971	Romulo Vianna, Rio de Janeiro, Brazil
DQA1*05:05:03	19208513	MN082716	Daniel Fuerst, Ulm, Germany
DQA1*05:05:04	19214251	MN307455	Daniel Fuerst, Ulm, Germany
DQA1*05:20	19047848	MN082717	Daniel Fuerst, Ulm, Germany
DQA1*05:21	24963	MN070231	Kelly Ingram, Winston-Salem, USA
DQA1*05:22	HG00025447	MH913486	Histogenetics, Ossining, USA
DQA2*01:01:01:01	COX	AL713890, AL671681	Stephan Beck, London, United Kingdom
DQA2*01:01:01:01	JY	N/A	Jack L Strominger, Boston, USA
DQA2*01:01:01:02	APD	CR936921	Stephan Beck, London, United Kingdom
DQA2*01:01:01:03	PGF	AL672104	Stephan Beck, London, United Kingdom
DQA2*01:01:02:01	DBB	CR753846	Stephan Beck, London, United Kingdom
DQA2*01:01:02:02	BH	KY500360	Peter Parham, Stanford, USA
DQA2*01:01:02:03	KAS011	KY500365	Peter Parham, Stanford, USA
DQA2*01:01:03	BM16	KY500362	Peter Parham, Stanford, USA
DQA2*01:01:04	FPAF	KY500364	Peter Parham, Stanford, USA
DQA2*01:02	BOLETH	N/A	Lars Rask, Uppsala, Sweden
DQA2*01:03	MCF	KY500366	Peter Parham, Stanford, USA
DQA2*01:03	MLF	CR759848	Stephan Beck, London, United Kingdom
DQA2*01:04:01:01	MOU	BX927168, BX927160	Stephan Beck, London, United Kingdom

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
DQA2*01:04:01:02	QBL	AL773543	Stephan Beck, London, United Kingdom
DQA2*01:05	AKIBA	KY500359	Peter Parham, Stanford, USA
DQA2*01:06	BM15	KY500361	Peter Parham, Stanford, USA
DQA2*01:07	RSH	KY500368	Peter Parham, Stanford, USA
DQA2*01:08	SSTO	BX248406, BX927131	Stephan Beck, London, United Kingdom
DQA2*01:09	JY	N/A	Jack L Strominger, Boston, USA
DQB1*02:01:37	HG00025509	MK890169	Histogenetics, Ossining, USA
DQB1*02:02:10	HG00022444	MK844099	Histogenetics, Ossining, USA
DQB1*02:02:11	HG00025336	MN075159	Histogenetics, Ossining, USA
DQB1*02:02:12	HG00025345	MN178586	Histogenetics, Ossining, USA
DQB1*02:163N	2019-1396	MK757422	Mauro Castagnetta, Genova, Italy
DQB1*02:164	HG00024958	MK920360	Histogenetics, Ossining, USA
DQB1*02:165	HG00025344	MN178585	Histogenetics, Ossining, USA
DQB1*02:166	HG00022554	MK890170	Histogenetics, Ossining, USA
DQB1*02:167N	HG00025346	MN178587	Histogenetics, Ossining, USA
DQB1*03:01:01:22	LIE, PETCH, T7527	LR585293, LR585308, LR585324	Steven GE Marsh, London, United Kingdom
DQB1*03:01:48	HG00021958	MK689974	Histogenetics, Ossining, USA
DQB1*03:02:31	HG00025343	MN136793	Histogenetics, Ossining, USA
DQB1*03:03:25	HG00021897	MK442368	Histogenetics, Ossining, USA
DQB1*03:03:26	2018-271-01047	MN154513	Jonathan Williams, Burlington, USA
DQB1*03:10:03	HG00022453	MK844108	Histogenetics, Ossining, USA
DQB1*03:19:01:02Q	31109917	MF327010	Jinguo Wang, Calgary, Canada
DQB1*03:402	HG00024957	MK920358	Histogenetics, Ossining, USA
DQB1*03:403N	HG00024961	MN016177	Histogenetics, Ossining, USA
DQB1*03:404	NG02_WG_193C	MN148774	Uma Kanga, New Delhi, India
DQB1*03:405	HG00013541	MG450999	Histogenetics, Ossining, USA
DQB1*03:406	HG00025350	MN206101	Histogenetics, Ossining, USA
DQB1*03:407N	HG00025458	MH347726	Histogenetics, Ossining, USA
DQB1*03:408	HG00025475	MH924982	Histogenetics, Ossining, USA
DQB1*03:409	HG00025486	MK192208	Histogenetics, Ossining, USA
DQB1*03:410	HG00025488	MK225359	Histogenetics, Ossining, USA
DQB1*03:411N	HG00025489	MK225366	Histogenetics, Ossining, USA
DQB1*03:412	2018-271-01107	MN154549	Jonathan Williams, Burlington, USA
DQB1*04:02:20	HG00025455	MH173644	Histogenetics, Ossining, USA
DQB1*04:74	WHUH002	MN072927	Jianhua Chen, Wuhan, China
DQB1*04:75	HG00025510, HG00025334	MK920359, MN075157	Histogenetics, Ossining, USA
DQB1*04:76	2018-271-01059	MN154520	Jonathan Williams, Burlington, USA
DQB1*04:77	JSCF7154	MN337295	Seshasubramanian Vani, Chennai, India
DQB1*05:01:01:06	HLA-UERJ-2264	MN401187	Romulo Vianna, Rio de Janeiro, Brazil
DQB1*05:03:23	HG00025055	MN053452	Histogenetics, Ossining, USA
DQB1*05:238	HG00024965	MN016181	Histogenetics, Ossining, USA
DQB1*05:239	5791800929	MN149349	Faming Zhu, Hangzhou, China
DQB1*05:240	E3514	MN197538	Vinicius Stelet, Rio de Janeiro, Brazil
DQB1*05:241	SJHL18-450	MN167838	Po-Chien Chou, Memphis, USA
DQB1*05:242	HG00025500	MK394696	Histogenetics, Ossining, USA
DQB1*05:243	2018-271-00997	MN154493	Jonathan Williams, Burlington, USA
DQB1*06:02:42	HG00022436	MK844091	Histogenetics, Ossining, USA
DQB1*06:02:43	HG00024964	MN016180	Histogenetics, Ossining, USA
DQB1*06:03:01:04	HLA-UERJ-100659	MN153787	Romulo Vianna, Rio de Janeiro, Brazil
DQB1*06:03:38	2018-271-00991	MN154491	Jonathan Williams, Burlington, USA
DQB1*06:04:01:02	SLE005	LR585317	Steven GE Marsh, London, United Kingdom
DQB1*06:09:12	SJHL-13-977	MN310558	Paula Arnold, Memphis, USA
DQB1*06:353	NT02273	MN049991	Carolyn K Hurley, Washington DC, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
<i>DQB1</i> *06:354	HG00024959	MK937957	Histogenetics, Ossining, USA
<i>DQB1</i> *06:355	HG00025451	MG930687	Histogenetics, Ossining, USA
<i>DQB1</i> *06:356	HG00025457	MH215937	Histogenetics, Ossining, USA
<i>DQB1</i> *06:357	HG00025491	MK309144	Histogenetics, Ossining, USA
<i>DQB1</i> *06:358	011830402465A	MK645906	Faisal Aloufi, Riyadh, Saudi Arabia
<i>DQB1</i> *06:359	JSCR1981	MN067531	Seshasubramanian Vani, Chennai, India
<i>DPA1</i> *01:03:01:24	HLA-UERJ-C2369	MN153774	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPA1</i> *01:03:01:25	HLA-UERJ-101833	MN208444	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPA1</i> *01:03:01:26	HLA-UERJ-C2393	MN208446	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPA1</i> *01:03:01:27	HLA-UERJ-96257	MN208452	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPA1</i> *01:03:16	1910225062	MN013152	Jonathan Visentin, Bordeaux, France
<i>DPA1</i> *01:03:17	SJHL18-290	MN093121	Po-Chien Chou, Memphis , USA
<i>DPA1</i> *01:03:18	31852	MN070232	Kelly Ingram, Winston-Salem, USA
<i>DPA1</i> *01:26	HG00021034, HG00021035	MK376247, MK376248	Histogenetics, Ossining, USA
<i>DPA1</i> *01:27	19210067	MN068222	Daniel Fuerst, Ulm, Germany
<i>DPA1</i> *01:28	19212776	MN128717	Daniel Fuerst, Ulm, Germany
<i>DPA1</i> *01:29N	NG26_AM_72C	MN187921	Uma Kanga, New Delhi, India
<i>DPA1</i> *01:30	19213238	MN307454	Daniel Fuerst, Ulm, Germany
<i>DPA1</i> *02:01:01:12	NG02_WG_193C	MN148778	Uma Kanga, New Delhi, India
<i>DPA1</i> *02:01:01:13	NG08_WN_101C	MN148780	Uma Kanga, New Delhi, India
<i>DPA1</i> *02:01:01:14	HLA-UERJ-98460	MN208457	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPA1</i> *02:01:01:15	HLA-UERJ-102725A, HLA-UERJ-97910	MN208450, MN125339	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPA1</i> *02:01:01:16	HLA-UERJ-64223	MN314972	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPA1</i> *02:01:12	HG00025315	MN115473	Histogenetics, Ossining, USA
<i>DPA1</i> *02:01:13	HG00024918	MK920406	Histogenetics, Ossining, USA
<i>DPA1</i> *02:02:02:06Q	JEV0805	MK784061	Li Shi, Kunming, China
<i>DPA1</i> *02:02:02:07	HLA-UERJ-C2367	MN153775	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPA1</i> *02:02:08	31676	MN019565	Kelly Ingram, Winston-Salem, USA
<i>DPA1</i> *02:02:08	JEV1069	MK784062	Li Shi, Kunming, China
<i>DPA1</i> *02:25	JEV0906	MK784063	Li Shi, Kunming, China
<i>DPA1</i> *02:26	SJHL17-213	MN053841	Po-Chien Chou, Memphis , USA
<i>DPA1</i> *02:26	1910221548	MN163043	Jonathan Visentin, Bordeaux, France
<i>DPA1</i> *02:27	HG00025050	MN053457	Histogenetics, Ossining, USA
<i>DPA1</i> *02:28	HG00025316	MN136850	Histogenetics, Ossining, USA
<i>DPA1</i> *03:05Q	SJHL17-440	MN053842	Po-Chien Chou, Memphis , USA
<i>DPA1</i> *03:06	HG00022536	MK890202	Histogenetics, Ossining, USA
<i>DPA1</i> *04:02:01:02	HLA-UERJ-100496, HLA-UERJ-101068	MN240305, MN173663	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPB1</i> *01:01:01:11	PF04015	LR585310	Steven GE Marsh, London, United Kingdom
<i>DPB1</i> *02:01:02:45	LKT14	LR585286	Steven GE Marsh, London, United Kingdom
<i>DPB1</i> *02:01:02:46Q	2018-3440	MK551213	Mauro Castagnetta, Genova, Italy
<i>DPB1</i> *02:01:51	HG00024925	MK920394	Histogenetics, Ossining, USA
<i>DPB1</i> *02:01:52	HG00021518	MK607120	Histogenetics, Ossining, USA
<i>DPB1</i> *02:01:53	HG00021519	MK607121	Histogenetics, Ossining, USA
<i>DPB1</i> *02:01:54	2018-271-01128	MN154562	Jonathan Williams, Burlington, USA
<i>DPB1</i> *02:01:55	HG00025320	MN136829	Histogenetics, Ossining, USA
<i>DPB1</i> *04:01:01:36	BEL5GB	LR585244	Steven GE Marsh, London, United Kingdom
<i>DPB1</i> *04:01:01:37	BGE, AN01070, TEM	LR585245, LR585238, LR585326	Steven GE Marsh, London, United Kingdom

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
DPB1*04:01:01:38	BTB	LR585247	Steven GE Marsh, London, United Kingdom
DPB1*04:01:01:39	DOP-ND	LR585262	Steven GE Marsh, London, United Kingdom
DPB1*04:01:01:40	HERLUF, PMG075, C1R	LR585274, LR585312, LR585249	Steven GE Marsh, London, United Kingdom
DPB1*04:01:01:41	MARMarg	LR585304	Steven GE Marsh, London, United Kingdom
DPB1*04:01:42	HG00021539, HG00021540	MK689981, MK689982	Histogenetics, Ossining, USA
DPB1*04:01:43	HG00021556	MK829475	Histogenetics, Ossining, USA
DPB1*04:01:44	HG00024926, HG00024927	MK920395, MK920396	Histogenetics, Ossining, USA
DPB1*04:01:45	HG00024946	MN016157	Histogenetics, Ossining, USA
DPB1*04:01:46	HG00025325	MN178590	Histogenetics, Ossining, USA
DPB1*04:02:01:15	CF996	LR585256	Steven GE Marsh, London, United Kingdom
DPB1*05:01:01:11	KT12, KT17, ISK	LR585283, LR585297, LR585277	Steven GE Marsh, London, United Kingdom
DPB1*05:01:10	HG00025326	MN178591	Histogenetics, Ossining, USA
DPB1*05:01:11	81204797	MN316601	Daniel Fuerst, Ulm, Germany
DPB1*1037:01	28909	MN019564	Kelly Ingram, Winston-Salem, USA
DPB1*1038:01Q	HG00021491	MK500643	Histogenetics, Ossining, USA
DPB1*1039:01	HG00022417	MK844122	Histogenetics, Ossining, USA
DPB1*1040:01	HG00022541	MK890183	Histogenetics, Ossining, USA
DPB1*1041:01N	HG00022544	MK890186	Histogenetics, Ossining, USA
DPB1*1042:01	HG00022546	MK890188	Histogenetics, Ossining, USA
DPB1*1043:01	HG00024929	MK920398	Histogenetics, Ossining, USA
DPB1*1044:01N	HG00024933	MK920403	Histogenetics, Ossining, USA
DPB1*1045:01N	HG00024935	MK920405	Histogenetics, Ossining, USA
DPB1*1046:01	HG00024942	MN016152	Histogenetics, Ossining, USA
DPB1*1047:01	HG00024943	MN016153	Histogenetics, Ossining, USA
DPB1*1048:01	HG00024945	MN016155	Histogenetics, Ossining, USA
DPB1*1049:01	SJHL17-814	MN062014	Po-Chien Chou, Memphis, USA
DPB1*104:01:03	31283	MK860178	Kelly Ingram, Winston-Salem, USA
DPB1*1050:01	SJHL18-814	MN062015	Po-Chien Chou, Memphis, USA
DPB1*1051:01	31736	MN070228	Kelly Ingram, Winston-Salem, USA
DPB1*1052:01	HG00014255	MG701658	Histogenetics, Ossining, USA
DPB1*1053:01	HG00021517	MK607119	Histogenetics, Ossining, USA
DPB1*1054:01	HG00021526	MK616640	Histogenetics, Ossining, USA
DPB1*1055:01	HG00021536	MK650327	Histogenetics, Ossining, USA
DPB1*1056:01	HG00023275	MN016156	Histogenetics, Ossining, USA
DPB1*1057:01	HG00025318	MN075194	Histogenetics, Ossining, USA
DPB1*1058:01	HG00025319	MN115472	Histogenetics, Ossining, USA
DPB1*1059:01	HG00025321	MN136830	Histogenetics, Ossining, USA
DPB1*1060:01	HG00025324	MN178589	Histogenetics, Ossining, USA
DPB1*1061:01	HG00025327	MN178592	Histogenetics, Ossining, USA
DPB1*1062:01	HG00025397	MH559116	Histogenetics, Ossining, USA
DPB1*1063:01	HG00025398	MH758921	Histogenetics, Ossining, USA
DPB1*1064:01	HG00025424	MK336345	Histogenetics, Ossining, USA
DPB1*1065:01	HG00025425	MK336354	Histogenetics, Ossining, USA
DPB1*1066:01	HG00025443	MN075193	Histogenetics, Ossining, USA
DPB1*1067:01	HG00025444	MN136832	Histogenetics, Ossining, USA
DPB1*1068:01	HG00025446	MN251792	Histogenetics, Ossining, USA
DPB1*1069:01	TIIIL69455	MN258029	Susana R Marino, Chicago, USA
DPB1*1070:01N	HG00016350	MH183046	Histogenetics, Ossining, USA
DPB1*1071:01	2018-271-01129	MN154563	Jonathan Williams, Burlington, USA
DPB1*1072:01	DS81324	MN251048	Susana R Marino, Chicago, USA
DPB1*10:01:05	HG00025328	MN206098	Histogenetics, Ossining, USA
DPB1*11:01:05	235977, P5265, P5266, P5267	MN058981	Vinicius Stelet, Rio de Janeiro, Brazil
DPB1*13:01:01:09	ARBO	LR585241	Steven GE Marsh, London, United Kingdom
DPB1*13:01:01:10	LATIF	LR585291	Steven GE Marsh, London, United Kingdom
DPB1*14:01:10	HG00022421	MK844126	Histogenetics, Ossining, USA

(continued on next page)

Table 1 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
<i>DPB1*14:01:11</i>	HG00022425	MK844130	Histogenetics, Ossining, USA
<i>DPB1*14:01:12</i>	HG00022542	MK890184	Histogenetics, Ossining, USA
<i>DPB1*18:01:01:04</i>	MSU90943	MN124781	Jeremy Sherrill, Ann Arbor, USA
<i>DPB1*334:01:02</i>	HG00022420	MK844125	Histogenetics, Ossining, USA
<i>DPB1*55:01:03</i>	HG00024938	MK954840	Histogenetics, Ossining, USA
<i>MICB*002:01:03</i>	DKMS-LSL_ID16120183	LR700830	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*002:01:04</i>	DKMS-LSL_ID16938154	LR700869	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*002:01:05</i>	DKMS-LSL_ID16949993	LR700878	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*002:01:06</i>	DKMS-LSL_ID16951028	LR700880	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*002:01:07</i>	DKMS-LSL_ID17428919	LR701071	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*002:01:08</i>	DKMS-LSL_ID17422546	LR701108	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*002:02:01</i>	DKMS-LSL_ID16888683, DKMS-LSL_ID16862792	LR700845, LR700896	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*002:02:02</i>	DKMS-LSL_ID16895711	LR700904	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:01:01</i>	DKMS-LSL_ID17429266, DKMS-LSL_ID17430454	LR701073, LR701076	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:01:02</i>	DKMS-LSL_ID17429179	LR701072	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:03:01</i>	DKMS-LSL_ID17427743, DKMS-LSL_ID17428047	LR701063, LR701067	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:03:02</i>	DKMS-LSL_ID16504546	LR701013	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:03:03</i>	DKMS-LSL_ID17427561	LR701058	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:03:04</i>	DKMS-LSL_ID17427606	LR701060	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:03:05</i>	DKMS-LSL_ID17427757	LR701064	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:06:01</i>	DKMS-LSL_ID17429388, DKMS-LSL_ID16916553	LR701074, LR700913	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:06:02</i>	DKMS-LSL_ID17411638	LR701025	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:07:01</i>	DKMS-LSL_ID16557660, DKMS-LSL_ID16504546, DKMS-LSL_ID16504392, DKMS-LSL_ID15930952	LR701084, LR701083, LR701082, LR701009	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*005:07:02</i>	DKMS-LSL_ID16812694	LR701086	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*034</i>	DKMS-LSL_ID16358657	LR700833	DKMS Life Sciences Lab, Dresden, Germany
<i>MICB*035</i>	DKMS-LSL_ID16607987	LR700834	DKMS Life Sciences Lab, Dresden, Germany

Table 2
Confirmatory Sequences.

HLA Allele	Cell identification	Accession number	Submitting author
A*01:01:01:26	HG00025097	MN136781	Histogenetics, Ossining, USA
A*01:01:01:44	HG00025111	MN166911	Histogenetics, Ossining, USA
A*01:01:100	HG00022574	MK920321	Histogenetics, Ossining, USA
A*01:01:11	NT02266	MN176142	Carolyn K Hurley, Washington DC, USA
A*01:01:11	NT02280	MN402709	Carolyn K Hurley, Washington DC, USA
A*01:12	NT02282	MN402710	Carolyn K Hurley, Washington DC, USA
A*01:148	BY01862	MN402711	Carolyn K Hurley, Washington DC, USA
A*01:274	HG00018115, HG00019110	MH802059, MK143581	Histogenetics, Ossining, USA
A*01:291	HG00022573	MK920320	Histogenetics, Ossining, USA
A*01:297	HG00025083	MN115451	Histogenetics, Ossining, USA
A*01:305	HG00022582	MK920330	Histogenetics, Ossining, USA
A*01:306	HG00025088	MN115456	Histogenetics, Ossining, USA
A*01:43	BY01864	MN402712	Carolyn K Hurley, Washington DC, USA
A*02:01:01:11	BY01831	MN117996	Carolyn K Hurley, Washington DC, USA
A*02:01:01:124	HG00025106	MN136790	Histogenetics, Ossining, USA
A*02:01:01:35	HG00022591	MK938082	Histogenetics, Ossining, USA
A*02:01:01:42	BY01830	MN117995	Carolyn K Hurley, Washington DC, USA
A*02:01:01:56	HG00023012	MN015860	Histogenetics, Ossining, USA
A*02:01:01:57	HG00023060, HG00023238	MN015908, MN016089	Histogenetics, Ossining, USA
A*02:01:01:68	HG00024996	MN053441	Histogenetics, Ossining, USA
A*02:01:01:70	P197990622B	MN203114	Jonathan Downing, Perth, Australia
A*02:01:01:80	BY01801	MN305695	Carolyn K Hurley, Washington DC, USA
A*02:01:01:89	HG00024998, HG00025072	MN053443, MN075180	Histogenetics, Ossining, USA
A*02:01:01:97	HG00024994, HG00025090	MN053439, MN115458	Histogenetics, Ossining, USA
A*02:01:166	HG00016523, HG00019778, HG00019860	MK308885, MK225402, MK308879	Histogenetics, Ossining, USA
A*02:02:01:04	HG00022593	MK938084	Histogenetics, Ossining, USA
A*02:03:09	HG00016436	MH215801	Histogenetics, Ossining, USA
A*02:11:01:02	HG00022616, HG00022635	MK938107, MK938129	Histogenetics, Ossining, USA
A*02:122	NT02278	MN276032	Carolyn K Hurley, Washington DC, USA
A*02:13	AN300209	LR596416	Steven GE Marsh, London, United Kingdom
A*02:552	BY01708	MN244287	Carolyn K Hurley, Washington DC, USA
A*02:642	HG00019974, HG00019990	MK394284, MK394301	Histogenetics, Ossining, USA
A*02:788N	HG00015346	MK225414	Histogenetics, Ossining, USA
A*02:807N	HG00020070	MK500625	Histogenetics, Ossining, USA
A*02:819	HG00022568, HG00022569	MK920315, MK920316	Histogenetics, Ossining, USA
A*02:820	HG00025074	MN115442	Histogenetics, Ossining, USA
A*02:829	HG00012041	KX425952	Histogenetics, Ossining, USA
A*02:872	HLA-UERJ-C2380	MN107033	Romulo Vianna, Rio de Janeiro, Brazil
A*02:883	HG00025094	MN115462	Histogenetics, Ossining, USA
A*03:01:01:26	HG00022874, HG00023078, HG00023152, HG00023170	MK955036, MN015926, MN016001, MN016019	Histogenetics, Ossining, USA
A*11:01:01:22	HG00025098	MN136782	Histogenetics, Ossining, USA
A*11:01:01:25	NG12_KL_167C, NG13_KH_184C, NG14_ZY_175C, NG15_VK_189C, NG16_SL_204C, NG19_CB_212C, NG21_LK_220C, NG25_KM_248C, NG27_AK_79C, NG28_NT_255C, NG29_KY_260C, NG30_NG_263C, NG33_YX_253C, NG34_SJ_146P	MN187925, MN187926, MN187927, MN187928, MN187929	Uma Kanga, New Delhi, India
A*11:01:01:27	HG00025099	MN136783	Histogenetics, Ossining, USA
A*11:01:93	HG00019745	MK192144	Histogenetics, Ossining, USA
A*11:01:94	HG00012232	KX499417	Histogenetics, Ossining, USA
A*11:01:96	HG00011811	KX017405	Histogenetics, Ossining, USA
A*11:01:97	HG00012016	KX266762	Histogenetics, Ossining, USA
A*11:338	HG00022356	MK843991	Histogenetics, Ossining, USA
A*23:01:01:05	HG00019162, HG00022862, HG00023086, HG00023110, HG00023125	MK955131, MK955024, MN015934, MN015958, MN015973	Histogenetics, Ossining, USA
A*24:02:01:21	HG00022600, HG00022734, HG00022830	MK938091, MK954893, MK954991	Histogenetics, Ossining, USA
A*24:02:01:52	HG00023262	MN016114	Histogenetics, Ossining, USA
A*24:02:102:02	HG00025068	MN075176	Histogenetics, Ossining, USA
A*24:02:118	HG00010815	KT600074	Histogenetics, Ossining, USA
A*24:02:119	HG00025075	MN115443	Histogenetics, Ossining, USA
A*24:02:98	HG00019928, HG00019935, HG00019969, HG00019983	MK394237, MK394244, MK394279, MK394294	Histogenetics, Ossining, USA
A*24:07:01:03	HG00025073	MN115441	Histogenetics, Ossining, USA

(continued on next page)

Table 2 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
A*24:14:01:04	HG00022739	MK954898	Histogenetics, Ossining, USA
A*24:18	BY01782, BY01783	MK965960	Carolyn K Hurley, Washington DC, USA
A*24:22	NT02247	MK782912	Carolyn K Hurley, Washington DC, USA
A*24:451	HG00019747	MK225370	Histogenetics, Ossining, USA
A*24:462	HG00025081	MN115449	Histogenetics, Ossining, USA
A*25:62	HG00025069	MN075177	Histogenetics, Ossining, USA
A*26:01:01:16	HG00025065	MN075173	Histogenetics, Ossining, USA
A*26:01:01:18	HG00024995	MN053440	Histogenetics, Ossining, USA
A*26:01:40	HG00019936	MK394246	Histogenetics, Ossining, USA
A*26:08:01:02	HG00025002, HG00025104	MN053447, MN136788	Histogenetics, Ossining, USA
A*26:191N	HG00025095	MN115463	Histogenetics, Ossining, USA
A*29:02:01:09	HG00025113	MN166913	Histogenetics, Ossining, USA
A*29:132	2018-271-01081	MN154530	Jonathan Williams, Burlington, USA
A*29:95	HG00019971, HG00019975	MK394281, MK394285	Histogenetics, Ossining, USA
A*30:02:01:05	HG00023030, HG00023045, HG00023190	MN015878, MN015893, MN016040	Histogenetics, Ossining, USA
A*30:02:01:06	HG00022917, HG00023044, HG00023163, HG00023193	MK955079, MN015892, MN016012, MN016043	Histogenetics, Ossining, USA
A*30:78N	BY01829	MN114098	Carolyn K Hurley, Washington DC, USA
A*31:01:02:07	HG00022621, HG00022623	MK938114, MK938116	Histogenetics, Ossining, USA
A*31:01:36	HG00012008	KX266760	Histogenetics, Ossining, USA
A*31:02:02	HG00022576	MK920324	Histogenetics, Ossining, USA
A*31:149N	HG00016345, HG00016376, HG00017043	MH183098, MH183099, MH536255	Histogenetics, Ossining, USA
A*31:151Q	HG00023247	MN016099	Histogenetics, Ossining, USA
A*31:30	BY01711	MN255474	Carolyn K Hurley, Washington DC, USA
A*31:68	437073	LR597549	Edward KL Yang, Hualien, Taiwan
A*32:129	HG00022662	MK938157	Histogenetics, Ossining, USA
A*33:03:39	HG00010811	KT760488	Histogenetics, Ossining, USA
A*33:191	HG00025105	MN136789	Histogenetics, Ossining, USA
A*68:01:02:08	BY01816, BY01817	MK995176	Carolyn K Hurley, Washington DC, USA
A*68:02:01:04	HG00022630	MK938124	Histogenetics, Ossining, USA
A*68:03:02	BY01707	MN244286	Carolyn K Hurley, Washington DC, USA
A*68:214	HG00019892	MK308912	Histogenetics, Ossining, USA
A*74:01:01:05	HG00022744, HG00022772	MK954903, MK954932	Histogenetics, Ossining, USA
A*80:01:02	HG00025080	MN115448	Histogenetics, Ossining, USA
A*80:06	HG00023258	MN016110	Histogenetics, Ossining, USA
B*07:02:01:18	HG00023740, HG00023895	MN016210, MN016372	Histogenetics, Ossining, USA
B*07:02:01:30	HG00025178	MN136808	Histogenetics, Ossining, USA
B*07:02:56	NT02263	MN176140	Carolyn K Hurley, Washington DC, USA
B*07:02:69	HG00020166, HG00020168, HG00020240, HG00020479, HG00022518	MK300346, MK300348, MK300423, MK511132, MK890155	Histogenetics, Ossining, USA
B*07:02:69	JXZJ20180205009, 900611890007600	MN066309	Faming Zhu, Hangzhou, China
B*07:340	HG00023293	MK920345	Histogenetics, Ossining, USA
B*07:370	HG00020194	MK300375	Histogenetics, Ossining, USA
B*07:381	HG00025139	MN115486	Histogenetics, Ossining, USA
B*07:51	BY01718	MN276028	Carolyn K Hurley, Washington DC, USA
B*08:01:01:20	HG00025169	MN136799	Histogenetics, Ossining, USA
B*08:01:54	60819281	MN199035	Antonio Balas, Madrid, Spain
B*08:180	28084297	LR594483	Thibaut Gervais, Brussels, Belgium
B*08:230	UHB0001	MK704504	Marc Kleiser, Basel, Switzerland
B*08:231	HG00025226	MN206085	Histogenetics, Ossining, USA
B*08:38:02	HG00014101	MG701521	Histogenetics, Ossining, USA
B*13:01:01:03	HG00023202	MN016436	Histogenetics, Ossining, USA
B*13:01:01:03	NG17_SL_204C, NG22_LK_220C, NG37_PL_154C	MN206021, MN206022, MN243729	Uma Kanga, New Delhi, India
B*13:01:01:05	HLA19057109	MN092360	Aditi Aggarwal, Gurgaon, India
B*13:04	NT02248	MK782913	Carolyn K Hurley, Washington DC, USA
B*13:07N	JRC-01K0175	LC489412	Masahiro Satake, Tokyo, Japan
B*13:129	JCBB12335	WS100554	Seshasubramanian Vani, Chennai, India
B*14:01:01:03	HG00023403	MK938067	Histogenetics, Ossining, USA
B*15:01:01:24	HG00025212	MN178570	Histogenetics, Ossining, USA

(continued on next page)

Table 2 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*15:01:01:26	HG00025154	MN115501	Histogenetics, Ossining, USA
B*15:02:01:02	HG00023311	MK937969	Histogenetics, Ossining, USA
B*15:03:01:06	HG00025208	MN166923	Histogenetics, Ossining, USA
B*15:04:01:02	BY01844	MN276029	Carolyn K Hurley, Washington DC, USA
B*15:07:01:05	HG00023394, HG00023681, HG00023744, HG00023850, HG00023907, HG00025017	MK938058, MN003313, MN016214, MN016325, MN016385, MN053499	Histogenetics, Ossining, USA
B*15:109	431667	LR597434	Edward KL Yang, Hualien, Taiwan
B*15:18:01:04	HG00023337	MK937996	Histogenetics, Ossining, USA
B*15:220:01:01	NT02328	MN304950	Carolyn K Hurley, Washington DC, USA
B*15:245:01Q	JRC-36K0124	LC489413	Masahiro Satake, Tokyo, Japan
B*15:25:04	HG00023294	MK920346	Histogenetics, Ossining, USA
B*15:39:01:02	HG00025014, HG00025170, HG00025173, HG00025211	MN053495, MN136800, MN136803, MN178569	Histogenetics, Ossining, USA
B*15:40:01	NT02268	MN240308	Carolyn K Hurley, Washington DC, USA
B*15:47:01	NT02269	MN244281	Carolyn K Hurley, Washington DC, USA
B*15:501	HG00025024	MN053506	Histogenetics, Ossining, USA
B*15:79N	BY01846	MN276031	Carolyn K Hurley, Washington DC, USA
B*18:01:01:30	BY01838	MN305696	Carolyn K Hurley, Washington DC, USA
B*18:01:01:31	HG00022998, HG00023265	MN016208, MN016515	Histogenetics, Ossining, USA
B*18:01:01:36	HG00025125	MN075168	Histogenetics, Ossining, USA
B*18:01:01:39	HG00025192	MN136822	Histogenetics, Ossining, USA
B*18:01:32	DKMS-LSL_ID16112688	LR537296	DKMS Life Sciences Lab, Dresden, Germany
B*18:01:33:01	HG00025167	MN136797	Histogenetics, Ossining, USA
B*18:163	HG00023955	MN016435	Histogenetics, Ossining, USA
B*18:180	HG00025145	MN115492	Histogenetics, Ossining, USA
B*27:05:02:06	HG00023327	MK937986	Histogenetics, Ossining, USA
B*27:06:01:02	HG00023378, HG00023976	MK938042, MN016457	Histogenetics, Ossining, USA
B*27:197	HG00025135	MN115482	Histogenetics, Ossining, USA
B*27:198	ASAN190521_57202198	MN075122	Oh-Joong Kwon, Seoul, South Korea
B*27:209	HG00020197	MK300378	Histogenetics, Ossining, USA
B*27:210	HG00020353	MK336314	Histogenetics, Ossining, USA
B*35:01:01:25	HG00025164	MN136794	Histogenetics, Ossining, USA
B*35:01:01:35	HG00025013	MN053494	Histogenetics, Ossining, USA
B*35:01:58	HG00020282	MK308927	Histogenetics, Ossining, USA
B*35:03:01:08	HG00023336, HG00023346	MK937995, MK938006	Histogenetics, Ossining, USA
B*35:03:01:14	1121884	MN135636	Antonio Balas, Madrid, Spain
B*35:108:02	BY01843	MN276027	Carolyn K Hurley, Washington DC, USA
B*35:12:01:02	HG00023702	MN003334	Histogenetics, Ossining, USA
B*35:23	BY01706	MN244285	Carolyn K Hurley, Washington DC, USA
B*35:30:01:02	HG00025216	MN178574	Histogenetics, Ossining, USA
B*35:428Q	HG00020160	MK257836	Histogenetics, Ossining, USA
B*37:01:01:06	VA23	MN296485	Yoginder Pal Singh, Gurugram, India
B*37:01:01:09	HG00025203	MN166918	Histogenetics, Ossining, USA
B*37:89	HG00020144	MK225306	Histogenetics, Ossining, USA
B*38:01:16	HG00025172	MN136802	Histogenetics, Ossining, USA
B*38:02:08	JSCF7060	MN337293	Seshasubramanian Vani, Chennai, India
B*38:84	P187990825Y	MN227128	Jonathan Downing, Perth, Australia
B*38:84	HG00020383, HG00024052, HG00025223, HG00025230	MK376216, MN016536, MN178581, MN206089	Histogenetics, Ossining, USA
B*39:05:01:03	HG00025205	MN166920	Histogenetics, Ossining, USA
B*39:145	HG00025161	MN115509	Histogenetics, Ossining, USA
B*39:146N	HG00025148	MN115495	Histogenetics, Ossining, USA
B*39:14:01:03	HG00019697, HG00023434, HG00023476, HG00023539, HG00023623, HG00023699, HG00023703, HG00023714, HG00023767, HG00023802, HG00023818, HG00023849, HG00023870, HG00023994	MN016274, MN003054, MN003102, MN003169, MN003254, MN003331, MN003335, MN003346, MN016238, MN016273, MN016293, MN016324, MN016345, MN016475	Histogenetics, Ossining, USA
B*39:14:01:03	LIGH137771	MN180263	Maria da Graca Bicalho, Curitiba, Brazil
B*39:38Q	431538	LR597435	Edward KL Yang, Hualien, Taiwan
B*40:02:01:10	HG00023865, HG00023866, HG00023915, HG00025020	MN016340, MN016341, MN016394, MN053502	Histogenetics, Ossining, USA
B*40:02:27	HG00025128	MN115475	Histogenetics, Ossining, USA

(continued on next page)

Table 2 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
B*40:06:01:08	HG00025215	MN178573	Histogenetics, Ossining, USA
B*40:06:17	HG00023297	MK920349	Histogenetics, Ossining, USA
B*40:09	JRC-D36-102	LC489135	Masahiro Satake, Tokyo, Japan
B*40:129	LIGH137780	MN124995	Maria da Graca Bicalho, Curitiba, Brazil
B*40:426N	HG00025224	MN178582	Histogenetics, Ossining, USA
B*40:437	HG00020365, HG00020367, HG00020369, HG00020461	MK353263, MK353265, MK353267, MK442198	Histogenetics, Ossining, USA
B*41:06	BY01716	MN276025	Carolyn K Hurley, Washington DC, USA
B*44:02:01:09	HG00023343	MK938003	Histogenetics, Ossining, USA
B*44:02:01:22	HG00023663	MN003294	Histogenetics, Ossining, USA
B*44:02:60	HG00020229	MK300410	Histogenetics, Ossining, USA
B*44:03:52	HG00020348	MK336309	Histogenetics, Ossining, USA
B*44:03:53	HG00025140	MN115487	Histogenetics, Ossining, USA
B*44:29	NT02277	MN244283	Carolyn K Hurley, Washington DC, USA
B*44:310N	HG00023296	MK920348	Histogenetics, Ossining, USA
B*44:338	HG00025147	MN115494	Histogenetics, Ossining, USA
B*44:474	HG00022517	MK890154	Histogenetics, Ossining, USA
B*45:01:01:04	HG00023570, HG00023571	MN003201, MN003202	Histogenetics, Ossining, USA
B*47:01:01:04	HG00025204	MN166919	Histogenetics, Ossining, USA
B*48:02:01	BY01840	MN276020	Carolyn K Hurley, Washington DC, USA
B*49:01:01:05	HG00025202	MN166917	Histogenetics, Ossining, USA
B*51:01:01:26	HG00023323, HG00023330	MK937982, MK937989	Histogenetics, Ossining, USA
B*51:01:01:35	HG00017648, HG00023387, HG00023494, HG00023519, HG00023521, HG00023522, HG00023693, HG00023729, HG00023733, HG00023753, HG00023816, HG00023829, HG00023833, HG00023868, HG00023961, HG00023962, HG00024032	MN003035, MK938051, MN003121, MN003148, MN003151, MN003152, MN003325, MN016197, MN016201, MN016223, MN016291, MN016304, MN016308, MN016343, MN016442, MN016443, MN016516	Histogenetics, Ossining, USA
B*51:01:01:35	HG00024026, HG00025122, HG00025201	MN016509, MN075164, MN166916	Histogenetics, Ossining, USA
B*51:01:01:35	BY01847	MN305697	Carolyn K Hurley, Washington DC, USA
B*51:01:01:44	HG00025191	MN136821	Histogenetics, Ossining, USA
B*51:01:01:46	HG00025214	MN178572	Histogenetics, Ossining, USA
B*51:01:60	HG00023727	MN016194	Histogenetics, Ossining, USA
B*51:01:71	HG00025385, HG00025386	MN251796, MN251797	Histogenetics, Ossining, USA
B*51:01:72	2018-271-01001	MN154495	Jonathan Williams, Burlington, USA
B*51:01:75	HG00025023	MN053505	Histogenetics, Ossining, USA
B*51:08:01:02	HG00023310	MK937968	Histogenetics, Ossining, USA
B*51:08:03	HG00025131	MN115478	Histogenetics, Ossining, USA
B*51:168	NT02267	MK388399	Carolyn K Hurley, Washington DC, USA
B*51:168	BY01841	MN240307	Carolyn K Hurley, Washington DC, USA
B*51:230:01:02	HG00025134	MN115481	Histogenetics, Ossining, USA
B*51:256N	HG00023292, HG00023299	MK920344, MK920351	Histogenetics, Ossining, USA
B*51:285	HG00020201	MK300382	Histogenetics, Ossining, USA
B*51:31	BY01785	MN082623	Carolyn K Hurley, Washington DC, USA
B*51:75	BY01715	MN276024	Carolyn K Hurley, Washington DC, USA
B*52:10:01	BY01717	MN276026	Carolyn K Hurley, Washington DC, USA
B*52:37	JRC-D01-607	LC489414	Masahiro Satake, Tokyo, Japan
B*52:90	HG00020364	MK353262	Histogenetics, Ossining, USA
B*53:01:23	HG00020211	MK300392	Histogenetics, Ossining, USA
B*55:01:01:07	HG00023318	MK937977	Histogenetics, Ossining, USA
B*55:98	HG00025016	MN053497	Histogenetics, Ossining, USA
B*56:04:03	HG00024051	MN016535	Histogenetics, Ossining, USA
B*56:67	HG00022515	MK890152	Histogenetics, Ossining, USA
B*57:116	HG00025136	MN115483	Histogenetics, Ossining, USA
B*58:101	HG00023300	MK920352	Histogenetics, Ossining, USA
B*58:105	HG00025162	MN115510	Histogenetics, Ossining, USA
B*82:02:01:02	HG00022624	MK937999	Histogenetics, Ossining, USA
C*01:02:01:19	HG00023683, HG00023759, HG00024035	MK954794, MN016578, MN016908	Histogenetics, Ossining, USA
C*01:181N	HG00020674, HG00020753	MK300316, MK309039	Histogenetics, Ossining, USA
C*01:182	HG00024059	MK920371	Histogenetics, Ossining, USA
C*02:02:02:22	HG00024086, HG00024487, HG00024893	MK938184, MK954775, MN016904	Histogenetics, Ossining, USA
C*02:02:02:23	HG00024210, HG00024213	MK954486, MK954489	Histogenetics, Ossining, USA
C*02:02:53	HG00020763	MK309050	Histogenetics, Ossining, USA
C*02:10:01:06	HG00023341	MK938216	Histogenetics, Ossining, USA

(continued on next page)

Table 2 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*02:168	HG00024550, HG00025308	MN016539, MN178596	Histogenetics, Ossining, USA
C*02:170	HG00020598	MK257853	Histogenetics, Ossining, USA
C*02:173	HG00025264	MN115533	Histogenetics, Ossining, USA
C*03:02:02:06	HG00022624	MK938215	Histogenetics, Ossining, USA
C*03:03:01:18	HG00025236	MN075186	Histogenetics, Ossining, USA
C*03:03:22	NT02270	MN244282	Carolyn K Hurley, Washington DC, USA
C*03:03:56	HG00011637	KU992502	Histogenetics, Ossining, USA
C*03:04:01:24	HG00025032	MN053467	Histogenetics, Ossining, USA
C*03:04:01:28	HG00024089, HG00024192, HG00024439, HG00024465, HG00024555, HG00024594, HG00024730	MK938187, MK938296, MK954726, MK954753, MN016546, MN016587, MN016730	Histogenetics, Ossining, USA
C*03:04:04	D292153	LR655874	Edward KL Yang, Hualien, Taiwan
C*03:04:04	340830	LR679763	Edward KL Yang, Hualien, Taiwan
C*03:04:04	432324	LR679762	Edward KL Yang, Hualien, Taiwan
C*03:04:04	365961	LR679776	Edward KL Yang, Hualien, Taiwan
C*03:04:76	HG00010895	KT760509	Histogenetics, Ossining, USA
C*03:36	D311409	LR655850	Edward KL Yang, Hualien, Taiwan
C*03:380N	HG00016119, HG00020888	MH173425, MK394482	Histogenetics, Ossining, USA
C*03:407	HG00018535, HG00020625, HG00020699, HG00020702	MH974083, MK257880, MK308984, MK308987	Histogenetics, Ossining, USA
C*03:441	HG00024073	MK920385	Histogenetics, Ossining, USA
C*03:452	HG00025251	MN115520	Histogenetics, Ossining, USA
C*03:470N	HG00024055	MK920367	Histogenetics, Ossining, USA
C*03:485	HG00025271	MN115540	Histogenetics, Ossining, USA
C*04:01:01:32	HLA-UERJ-98459	MN208456	Romulo Vianna, Rio de Janeiro, Brazil
C*04:01:01:42	HG00025305	MN166930	Histogenetics, Ossining, USA
C*04:01:01:51	HG00025296	MN136845	Histogenetics, Ossining, USA
C*04:01:01:72	HG00025237	MN075187	Histogenetics, Ossining, USA
C*04:01:106:01	HG00020546	MK192155	Histogenetics, Ossining, USA
C*04:109	BY01705	MN244284	Carolyn K Hurley, Washington DC, USA
C*04:131	BY01714	MN276023	Carolyn K Hurley, Washington DC, USA
C*04:13:01:02	HG00024106	MK938204	Histogenetics, Ossining, USA
C*04:19	BY01793	MN032104	Carolyn K Hurley, Washington DC, USA
C*04:30	KW10684	LR606273	Edward KL Yang, Hualien, Taiwan
C*04:30	KW10439	LR697104	Edward KL Yang, Hualien, Taiwan
C*04:309N	HG00019650, HG00019651	MK058642, MK058643	Histogenetics, Ossining, USA
C*04:353	HG00022529	MK890195	Histogenetics, Ossining, USA
C*05:01:47	P089901477X	MN227122	Jonathan Downing, Perth, Australia
C*05:01:48	HG00025266	MN115535	Histogenetics, Ossining, USA
C*05:204	HG00025270	MN115539	Histogenetics, Ossining, USA
C*05:212	HG00025255	MN115524	Histogenetics, Ossining, USA
C*05:224	HG00025258	MN115527	Histogenetics, Ossining, USA
C*06:02:01:12	BY01836	MN170513	Carolyn K Hurley, Washington DC, USA
C*06:246	HG00024068	MK920380	Histogenetics, Ossining, USA
C*06:268	HG00025048	MN053485	Histogenetics, Ossining, USA
C*06:271	HG00024900	MN016912	Histogenetics, Ossining, USA
C*06:286	HG00012823	KY399926	Histogenetics, Ossining, USA
C*06:286	P187991018Q	MN227129	Jonathan Downing, Perth, Australia
C*06:59	BY01845	MN276030	Carolyn K Hurley, Washington DC, USA
C*07:01:01:30	HG00024276, HG00024556, HG00024772, HG00024804	MK954557, MN016547, MN016774, MN016808	Histogenetics, Ossining, USA
C*07:01:01:31	HG00025303	MN166928	Histogenetics, Ossining, USA
C*07:01:76	NT02265	MN176141	Carolyn K Hurley, Washington DC, USA
C*07:01:85	HG00025276	MN115545	Histogenetics, Ossining, USA
C*07:02:01:39	BY01823, BY01822, BY01824	MN032103	Carolyn K Hurley, Washington DC, USA
C*07:02:01:40	HG00024254, HG00024305, HG00024313, HG00024316, HG00024323, HG00024344, HG00024453, HG00024499, HG00024524, HG00024583, HG00024590, HG00024621, HG00024640, HG00024739, HG00024838	MK954532, MK954587, MK954596, MK954599, MK954606, MK954627, MK954740, MK954787, MK954814, MN016575, MN016583, MN016615, MN016634, MN016741, MN016844	Histogenetics, Ossining, USA
C*07:02:01:40	HG00025029	MN053464	Histogenetics, Ossining, USA

(continued on next page)

Table 2 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
C*07:02:01:44	HG00022684, HG00023264	MK954472, MN016903	Histogenetics, Ossining, USA
C*07:02:01:56	HG00025286	MN136835	Histogenetics, Ossining, USA
C*07:02:01:65	HG00025292	MN136841	Histogenetics, Ossining, USA
C*07:02:01:74Q	HG00025231	MN075181	Histogenetics, Ossining, USA
C*07:02:112	HG00025275	MN115544	Histogenetics, Ossining, USA
C*07:19	BY01792	MN038170	Carolyn K Hurley, Washington DC, USA
C*07:27:01	D417371	LR594688	Edward KL Yang, Hualien, Taiwan
C*07:71	NT02254	MK858216	Carolyn K Hurley, Washington DC, USA
C*07:729:01:01	2018-271-01086	MN154535	Jonathan Williams, Burlington, USA
C*07:734	INCA1038527	MN167544	Matilde Romero, Rio de Janeiro, Brazil
C*07:734	HG00020651	MK257907	Histogenetics, Ossining, USA
C*07:737	HG00025259	MN115528	Histogenetics, Ossining, USA
C*07:740	HG00025267	MN115536	Histogenetics, Ossining, USA
C*07:766	53419	MN058980	Vinicius Stelet, Rio de Janeiro, Brazil
C*07:780	HG00024078, HG00025047	MK920390, MN053484	Histogenetics, Ossining, USA
C*07:783	HG00020547	MK192156	Histogenetics, Ossining, USA
C*07:800	HG00020554, HG00025245	MK192163, MN115514	Histogenetics, Ossining, USA
C*07:817	90260390	MN043260	Daniel Fuerst, Ulm, Germany
C*07:95	NT02261	MN170533	Carolyn K Hurley, Washington DC, USA
C*08:01:01:03	BY01793	MN032105	Carolyn K Hurley, Washington DC, USA
C*08:01:01:03	HG00024362, HG00024433, HG00024543, HG00024574, HG00024581, HG00024616, HG00024703, HG00024736, HG00024825	MK954645, MK954720, MK954834, MN016566, MN016573, MN016610, MN016701, MN016737, MN016830	Histogenetics, Ossining, USA
C*08:01:01:04	BY01853	MK814925	Carolyn K Hurley, Washington DC, USA
C*08:01:01:05	NG24_VI_228C	MN187920	Uma Kanga, New Delhi, India
C*08:02:01:04	HG00024084, HG00024085, HG00024110, HG00024113	MK938182, MK938183, MK938208, MK938211	Histogenetics, Ossining, USA
C*08:02:01:13	HG00023971	MN016859	Histogenetics, Ossining, USA
C*08:191	HG00020690	MK300332	Histogenetics, Ossining, USA
C*12:02:31	HG00020550	MK192159	Histogenetics, Ossining, USA
C*12:02:32	HG00011629	KU992505	Histogenetics, Ossining, USA
C*12:03:57	HG00011631	KU963044	Histogenetics, Ossining, USA
C*12:245	HG00016805, HG00019246, HG00020568, HG00020669, HG00020698, HG00020716, HG00020718, HG00020799	MH347671, MK143730, MK225421, MK300311, MK308983, MK309001, MK309003, MK376251	Histogenetics, Ossining, USA
C*12:281	HG00025248	MN115517	Histogenetics, Ossining, USA
C*12:284	HG00020590, HG00025035	MK257844, MN053471	Histogenetics, Ossining, USA
C*14:02:01:16	HG00025238	MN075188	Histogenetics, Ossining, USA
C*14:02:33	HG00020668, HG00024916	MK257925, MN016929	Histogenetics, Ossining, USA
C*14:03:02	HG00022397	MK844033	Histogenetics, Ossining, USA
C*14:111	HG00020582, HG00024057, HG00024058	MK225435, MK920369, MK920370	Histogenetics, Ossining, USA
C*15:02:01:09	HG00024094, HG00024194, HG00024247, HG00024380, HG00024410, HG00024449, HG00024531, HG00024683, HG00024715	MK938192, MK938298, MK954525, MK954664, MK954696, MK954736, MK954822, MN016679, MN016714	Histogenetics, Ossining, USA
C*15:02:34	HG00012920	KY497763	Histogenetics, Ossining, USA
C*15:07:01:02	DYPS-11	MN296483	Yoginder Pal Singh, Gurugram, India
C*15:08:01	HG00024107	MK938205	Histogenetics, Ossining, USA
C*15:202	HG00025282	MN115551	Histogenetics, Ossining, USA
C*15:62	NT02262	MN176139	Carolyn K Hurley, Washington DC, USA
C*16:01:36	HG00010269	KR047760	Histogenetics, Ossining, USA
C*16:02:01:02	HG00025302	MN166927	Histogenetics, Ossining, USA
C*16:46	KW10630	LR655807	Edward KL Yang, Hualien, Taiwan
C*16:59	BY01713	MN276022	Carolyn K Hurley, Washington DC, USA
DRB1*01:01:33	HG00025540	MH536272	Histogenetics, Ossining, USA
DRB1*01:03:01	TER-ND	LR585327	Steven GE Marsh, London, United Kingdom
DRB1*01:77	HG00025590, HG00025595	MK394347, MK394358	Histogenetics, Ossining, USA
DRB1*01:77	HG00025593	MK394353	Histogenetics, Ossining, USA
DRB1*01:91Q	HG00025545	MH721332	Histogenetics, Ossining, USA
DRB1*01:91Q	HG00025573, HG00025607	MK143895, MK500634	Histogenetics, Ossining, USA
DRB1*03:01:28	HG00025596	MK394365	Histogenetics, Ossining, USA
DRB1*03:07:02	HG00014591, HG00025515, HG00025558	MG756898, MH173595, MH779108	Histogenetics, Ossining, USA
DRB1*03:07:02	HG00025520	MH173615	Histogenetics, Ossining, USA
DRB1*03:148	HG00025541	MH544402	Histogenetics, Ossining, USA

(continued on next page)

Table 2 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
DRB1*03:148	HG00025542	MH544403	Histogenetics, Ossining, USA
DRB1*03:154	HG00025570	MK143858	Histogenetics, Ossining, USA
DRB1*04:02:01	YAR	LR585329	Steven GE Marsh, London, United Kingdom
DRB1*04:03:01:01	SSTO	LR585320	Steven GE Marsh, London, United Kingdom
DRB1*04:04:16	HG00022556	MK890206	Histogenetics, Ossining, USA
DRB1*04:11:01	GRC-212	LR585272	Steven GE Marsh, London, United Kingdom
DRB1*04:11:01	EC	LR585265	Steven GE Marsh, London, United Kingdom
DRB1*04:12	BUR,E	LR585248	Steven GE Marsh, London, United Kingdom
DRB1*04:243	HG00025516	MH173599	Histogenetics, Ossining, USA
DRB1*04:243	HG00025527	MH215867	Histogenetics, Ossining, USA
DRB1*04:248	HG00015210	MG805437	Histogenetics, Ossining, USA
DRB1*04:258	HG00025548, HG00025587	MH758835, MK309081	Histogenetics, Ossining, USA
DRB1*04:260	HG00025532	MH249144	Histogenetics, Ossining, USA
DRB1*04:284	HG00022464	MK844054	Histogenetics, Ossining, USA
DRB1*04:290	HG00025565	MH779155	Histogenetics, Ossining, USA
DRB1*04:298	2018-271-01054	MN154518	Jonathan Williams, Burlington, USA
DRB1*07:01:21	HG00025604	MK394398	Histogenetics, Ossining, USA
DRB1*07:101N	HG00016419	MH183057	Histogenetics, Ossining, USA
DRB1*07:101N	HG00025602	MK394395	Histogenetics, Ossining, USA
DRB1*07:81	HG00025597	MK394374	Histogenetics, Ossining, USA
DRB1*08:93	HG00025536	MH347647	Histogenetics, Ossining, USA
DRB1*08:95	HG00025362	MN206097	Histogenetics, Ossining, USA
DRB1*08:96	HG00025614	MN251790	Histogenetics, Ossining, USA
DRB1*09:31	JXZJ20180117011	MN066311	Faming Zhu, Hangzhou, China
DRB1*10:01:12	HG00025580	MK143939	Histogenetics, Ossining, USA
DRB1*11:01:30	HG00025564, HG00025567	MH779148, MK143813	Histogenetics, Ossining, USA
DRB1*11:04:15	HG00025592	MK394351	Histogenetics, Ossining, USA
DRB1*11:230	HG00022028	MK309059	Histogenetics, Ossining, USA
DRB1*11:243	HG00013803, HG00025522, HG00025552	MG603160, MH173625, MH779070	Histogenetics, Ossining, USA
DRB1*11:243	HG00025584	MK300304	Histogenetics, Ossining, USA
DRB1*11:24:02	HG00025535	MH347646	Histogenetics, Ossining, USA
DRB1*11:255	HG00025569	MK143834	Histogenetics, Ossining, USA
DRB1*11:256	HG00022029	MK309060	Histogenetics, Ossining, USA
DRB1*12:69	HG00013932	MG724905	Histogenetics, Ossining, USA
DRB1*12:69	HG00025543	MH721325	Histogenetics, Ossining, USA
DRB1*12:69	HG00025544	MH721331	Histogenetics, Ossining, USA
DRB1*12:69	HG00025562	MH779139	Histogenetics, Ossining, USA
DRB1*13:01:19	HG00019428	MK143857	Histogenetics, Ossining, USA
DRB1*13:01:19	HG00025539	MH477562	Histogenetics, Ossining, USA
DRB1*13:01:19	HG00025563, HG00025571, HG00025599	MH779147, MK143869, MK394385	Histogenetics, Ossining, USA
DRB1*13:01:19	HG00025578	MK143927	Histogenetics, Ossining, USA
DRB1*13:01:21	HG00013787, HG00025555	MG584071, MH779094	Histogenetics, Ossining, USA
DRB1*13:01:21	HG00025576	MK143908	Histogenetics, Ossining, USA
DRB1*13:01:24	HG00019551	MK143896	Histogenetics, Ossining, USA
DRB1*13:01:24	HG00025551	MH758846	Histogenetics, Ossining, USA
DRB1*13:01:25	HG00022144	MK500633	Histogenetics, Ossining, USA
DRB1*13:02:14	HG00015189	MG769846	Histogenetics, Ossining, USA
DRB1*13:02:15	HG00025517	MH173600	Histogenetics, Ossining, USA
DRB1*13:03:07	HG00025561	MH779137	Histogenetics, Ossining, USA
DRB1*13:03:07	HG00025568	MK143832	Histogenetics, Ossining, USA
DRB1*13:03:08	HG00025605	MK442121	Histogenetics, Ossining, USA
DRB1*14:01:05	HG00013457	MF170338	Histogenetics, Ossining, USA
DRB1*14:02:01:01	DAN723	LR585258	Steven GE Marsh, London, United Kingdom
DRB1*14:02:05	HG00013789	MG584073	Histogenetics, Ossining, USA
DRB1*14:04:04	HG00025550	MH758841	Histogenetics, Ossining, USA
DRB1*14:04:06	HG00025529	MH215881	Histogenetics, Ossining, USA
DRB1*14:04:07	HG00021985, HG00024979, HG00024980, HG00025360, HG00025361	MK192149, MN016174, MN016175, MN206095, MN206096	Histogenetics, Ossining, USA
DRB1*14:04:07	HG00022466	MK844056	Histogenetics, Ossining, USA
DRB1*14:205	HG00025566	MH924911	Histogenetics, Ossining, USA
DRB1*14:61	MDRI025	MN029022	Meetal Morjaria, Mumbai, India
DRB1*15:01:37	HG00025546	MH721339	Histogenetics, Ossining, USA
DRB1*15:02:01:02	KHAGNI	LR585281	Steven GE Marsh, London, United Kingdom
DRB1*15:145	HG00025594	MK394356	Histogenetics, Ossining, USA

(continued on next page)

Table 2 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
DRB1*15:149	D421569	LR585069	Edward KL Yang, Hualien, Taiwan
DRB1*15:151	HG00013784, HG00025519	MG584068, MH173609	Histogenetics, Ossining, USA
DRB1*15:157	HG00025547	MH758833	Histogenetics, Ossining, USA
DRB1*15:173	HG00021995	MK225478	Histogenetics, Ossining, USA
DRB1*16:38:02	HG00014348	MG603164	Histogenetics, Ossining, USA
DRB1*16:48	HG00014356	MG603172	Histogenetics, Ossining, USA
DRB1*16:49	HG00025512	MG930653	Histogenetics, Ossining, USA
DRB3*01:01:10	HG00011689, HG00011690, HG00011691, HG00011692, HG00011693	KU963074, KU963076, KU992527, KU963084, KU992548	Histogenetics, Ossining, USA
DRB3*01:73N	HG00025616	MK058621	Histogenetics, Ossining, USA
DRB3*01:75	HG00022501	MK862127	Histogenetics, Ossining, USA
DRB3*02:02:11	HG00025615	MH721407	Histogenetics, Ossining, USA
DRB3*02:02:19	HG00011497	KU748668	Histogenetics, Ossining, USA
DRB3*02:02:19	HG00024984, HG00025366	MN016145, MN115436	Histogenetics, Ossining, USA
DRB3*02:02:19	HG00025058	MN053511	Histogenetics, Ossining, USA
DRB3*02:02:19	HG00025367	MN115437	Histogenetics, Ossining, USA
DRB3*02:02:19	HG00025620	MK844075	Histogenetics, Ossining, USA
DRB3*02:02:19	HG00025621	MN115438	Histogenetics, Ossining, USA
DRB3*02:101	HG00024982	MN016143	Histogenetics, Ossining, USA
DRB3*02:104	HG00019600, HG00022174	MK143795, MK165917	Histogenetics, Ossining, USA
DRB3*02:106	HG00022191	MK225318	Histogenetics, Ossining, USA
DRB3*02:110	HG00013473	KY816437	Histogenetics, Ossining, USA
DRB3*02:113	HG00025618	MK353251	Histogenetics, Ossining, USA
DRB3*02:113	HG00025617	MK353248	Histogenetics, Ossining, USA
DRB3*03:26	HG00015247	MG769870	Histogenetics, Ossining, USA
DRB4*01:01:04	HG00025623, HG00025624	MH924962, MH924963	Histogenetics, Ossining, USA
DRB4*01:01:07	HG00012949	KY399940	Histogenetics, Ossining, USA
DRB4*01:03:07	HG00025630	MK143692	Histogenetics, Ossining, USA
DRB4*01:03:09	HG00025622	MH721349	Histogenetics, Ossining, USA
DRB4*01:03:11	HG00012201	KX426013	Histogenetics, Ossining, USA
DRB4*01:03:12	HG00013483	MF170373	Histogenetics, Ossining, USA
DRB4*01:03:13	HG00017510	MH721361	Histogenetics, Ossining, USA
DRB4*01:03:13	HG00025375, HG00025627, HG00025629	MN115465, MK032416, MK032421	Histogenetics, Ossining, USA
DRB4*01:03:13	HG00025625	MH924965	Histogenetics, Ossining, USA
DRB4*01:03:13	HG00025628	MK032417	Histogenetics, Ossining, USA
DRB4*01:03:16	HG00011770	KU963112	Histogenetics, Ossining, USA
DRB4*01:106	HG00015916, HG00016612	MH049654, MH215912	Histogenetics, Ossining, USA
DRB4*01:14N	19205151	MN229002	Daniel Fuerst, Ulm, Germany
DRB4*01:72	HG00025632	MK192216	Histogenetics, Ossining, USA
DRB4*01:80N	HG00017238, HG00017241	MH544390, MH544393	Histogenetics, Ossining, USA
DRB5*02:26N	HG00024991	MN016163	Histogenetics, Ossining, USA
DQA1*01:01:05	HG00025333	MN206084	Histogenetics, Ossining, USA
DQA1*01:03:02	HG00025330	MN136856	Histogenetics, Ossining, USA
DQA1*01:03:02	HG00025448	MH913487	Histogenetics, Ossining, USA
DQA1*01:20	HG00021565	MK300505	Histogenetics, Ossining, USA
DQA1*01:30	93116216	MN082719	Daniel Fuerst, Ulm, Germany
DQA1*01:30	HG00021566, HG00024954	MK309099, MN016182	Histogenetics, Ossining, USA
DQA1*01:31	HG00021574, HG00021575, HG00021576	MK353273, MK353275, MK353276	Histogenetics, Ossining, USA
DQA1*02:09	HG00025331	MN136857	Histogenetics, Ossining, USA
DQA1*05:21	HG00025450	MN251786	Histogenetics, Ossining, USA
DQB1*02:01:34	HG00010187	KR003376	Histogenetics, Ossining, USA
DQB1*02:122	HG00016156	MH173657	Histogenetics, Ossining, USA
DQB1*02:122	HG00025452, HG00025468	MG930698, MH544365	Histogenetics, Ossining, USA
DQB1*02:132N	HG00016352, HG00017438, HG00018837	MH183049, MH651447, MK032428	Histogenetics, Ossining, USA
DQB1*02:132N	HG00025459	MH347731	Histogenetics, Ossining, USA
DQB1*02:142	HG00019434	MK143976	Histogenetics, Ossining, USA
DQB1*02:142	HG00025349	MN206100	Histogenetics, Ossining, USA
DQB1*02:142	HG00025490	MK309139	Histogenetics, Ossining, USA
DQB1*02:150	HG00025464	MH544355	Histogenetics, Ossining, USA
DQB1*03:01:40	5771801441	MN055485	Faming Zhu, Hangzhou, China
DQB1*03:03:24	HG00021735	MK353323	Histogenetics, Ossining, USA
DQB1*03:272	HG00025487	MK225355	Histogenetics, Ossining, USA
DQB1*03:284	HG00013767	MG584112	Histogenetics, Ossining, USA
DQB1*03:284	HG00025476	MH974001	Histogenetics, Ossining, USA
DQB1*03:289	P5890	MN197539	Vinicius Stelet, Rio de Janeiro, Brazil
DQB1*03:289	HLA-UERJ-96305	MN125346	Romulo Vianna, Rio de Janeiro, Brazil
DQB1*03:290	HG00025466	MH544359	Histogenetics, Ossining, USA
DQB1*03:294	HG00025467	MH544363	Histogenetics, Ossining, USA
DQB1*03:298	HG00017125	MH721396	Histogenetics, Ossining, USA
DQB1*03:307	HG00025502, HG00025503	MK394719, MK394720	Histogenetics, Ossining, USA
DQB1*03:312	HG00025485	MK143972	Histogenetics, Ossining, USA

(continued on next page)

Table 2 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
DQB1*03:329	HG00025506	MK457731	Histogenetics, Ossining, USA
DQB1*03:339N	HG00017078	MH516147	Histogenetics, Ossining, USA
DQB1*03:345	HG00021614	MK192210	Histogenetics, Ossining, USA
DQB1*03:347	HG00025483	MK143964	Histogenetics, Ossining, USA
DQB1*03:358N	HG00024962	MN016178	Histogenetics, Ossining, USA
DQB1*03:368	HG00021716, HG00021744, HG00021751, HG00021901	MK309147, MK353332, MK376231, MK457732	Histogenetics, Ossining, USA
DQB1*03:370	HG00021688, HG00021696	MK309116, MK309124	Histogenetics, Ossining, USA
DQB1*03:370	HG00021726	MK336369	Histogenetics, Ossining, USA
DQB1*03:384	HG00021621	MK225340	Histogenetics, Ossining, USA
DQB1*03:38:02	HG00021885	MK442354	Histogenetics, Ossining, USA
DQB1*03:398	HG00025507	MK829465	Histogenetics, Ossining, USA
DQB1*04:02:13	HG00016447	MK394722	Histogenetics, Ossining, USA
DQB1*04:02:13	KW10630	LR655849	Edward KL Yang, Hualien, Taiwan
DQB1*04:02:13	HG00015989, HG00021797, HG00021816, HG00021821, HG00025453, HG00025496	MK394666, MK394662, MK394683, MK394688, MG930704, MK394625	Histogenetics, Ossining, USA
DQB1*04:02:13	HG00021756, HG00021773	MK394616, MK394635	Histogenetics, Ossining, USA
DQB1*04:02:13	HG00025504	MK394723	Histogenetics, Ossining, USA
DQB1*04:02:14	HG00021813, HG00021814	MK394680, MK394681	Histogenetics, Ossining, USA
DQB1*04:02:14	HG00025497	MK394653	Histogenetics, Ossining, USA
DQB1*04:02:17	HG00021729	MK353316	Histogenetics, Ossining, USA
DQB1*04:02:17	HG00022451	MK844106	Histogenetics, Ossining, USA
DQB1*04:51	HG00021753	MK376233	Histogenetics, Ossining, USA
DQB1*04:52	HG00025469	MH544368	Histogenetics, Ossining, USA
DQB1*04:59N	HG00025460, HG00025461, HG00025471	MH477586, MH477587, MH779175	Histogenetics, Ossining, USA
DQB1*04:60	HG00025494	MK376226	Histogenetics, Ossining, USA
DQB1*04:74	XIANBC0001	MN295056	Jun Qi, Xian, China
DQB1*05:01:26	HG00017097, HG00018588	MH536293, MH924978	Histogenetics, Ossining, USA
DQB1*05:01:35	HG00018583	MH913483	Histogenetics, Ossining, USA
DQB1*05:01:36	HG00021613, HG00021746, HG00022457	MK192209, MK353334, MK844113	Histogenetics, Ossining, USA
DQB1*05:01:36	HG00025347	MN178588	Histogenetics, Ossining, USA
DQB1*05:03:18	HG00025462	MH536276	Histogenetics, Ossining, USA
DQB1*05:161	HG00015950	MH173646	Histogenetics, Ossining, USA
DQB1*05:169	HG00025474	MH779256	Histogenetics, Ossining, USA
DQB1*05:182	HG00022551	MK890166	Histogenetics, Ossining, USA
DQB1*05:190	HG00025508	MK844112	Histogenetics, Ossining, USA
DQB1*05:202	HG00025339	MN115469	Histogenetics, Ossining, USA
DQB1*05:202	HG00025340, HG00025341	MN115470, MN115471	Histogenetics, Ossining, USA
DQB1*05:213	HG00025481, HG00025482, HG00025484	MK143954, MK143955, MK143965	Histogenetics, Ossining, USA
DQB1*05:222	HG00025342	MN136792	Histogenetics, Ossining, USA
DQB1*05:232	HG00025337	MN115467	Histogenetics, Ossining, USA
DQB1*05:236N	016685172	MN257434	Ornella Senoussi, La Tronche, France
DQB1*06:01:18	HG00025501	MK394699	Histogenetics, Ossining, USA
DQB1*06:01:23	HG00025506, HG00025507	MN053453, MN053454	Histogenetics, Ossining, USA
DQB1*06:01:26	HG00024963	MN016179	Histogenetics, Ossining, USA
DQB1*06:02:40	HG00012179	KX173389	Histogenetics, Ossining, USA
DQB1*06:02:41	HG00022445	MK844100	Histogenetics, Ossining, USA
DQB1*06:03:28	HG00025473	MH779197	Histogenetics, Ossining, USA
DQB1*06:03:28	HG00014289	MG584125	Histogenetics, Ossining, USA
DQB1*06:03:28	HG00025477	MK058574	Histogenetics, Ossining, USA
DQB1*06:09:11	HG00010752	KT438914	Histogenetics, Ossining, USA
DQB1*06:142	JCBB12887	MN337297	Seshasubramanian Vani, Chennai, India
DQB1*06:224	HG00025495	MK394619	Histogenetics, Ossining, USA
DQB1*06:285	HG00025463	MH536292	Histogenetics, Ossining, USA
DQB1*06:304N	HG00021875, HG00021950, HG00024956	MK442344, MK689966, MK920357	Histogenetics, Ossining, USA
DQB1*06:306N	HG00017079	MH516148	Histogenetics, Ossining, USA
DQB1*06:310	HG00025465	MH544357	Histogenetics, Ossining, USA
DQB1*06:314	HG00025348	MN206099	Histogenetics, Ossining, USA
DQB1*06:315	HG00014316	MG701623	Histogenetics, Ossining, USA
DQB1*06:329	HG00015142, HG00015145, HG00021634	MG805573, MG805576, MK225353	Histogenetics, Ossining, USA
DQB1*06:329	HG00017082, HG00017109, HG00017122, HG00017921, HG00021687, HG00021840, HG00021841, HG00021842, HG00021843, HG00021844, HG00021881, HG00021907, HG00021928, HG00021944, HG00021960, HG00022449	MH536277, MH536305, MH536318, MH779203, MK309115, MK394709, MK394710, MK394711, MK394712, MK394713, MK442350, MK511162, MK568584, MK650312, MK689976, MK844104	Histogenetics, Ossining, USA
DQB1*06:332	HG00021889	MK442358	Histogenetics, Ossining, USA
DQB1*06:334	HG00021635	MK225354	Histogenetics, Ossining, USA
DQB1*06:334	HG00025335	MN075158	Histogenetics, Ossining, USA
DPA1*01:03:01:21	NG07_WN_101C	MN148779	Uma Kanga, New Delhi, India
DPA1*01:03:13	HG00015323, HG00022535, HG00022537, HG00022538, HG00025052	MG769947, MK890201, MK890203, MK890204, MN053459	Histogenetics, Ossining, USA
DPA1*01:03:14	19209954	MN068224	Daniel Fuerst, Ulm, Germany
DPA1*01:03:14	HG00015321, HG00015322, HG00015328, HG00015329, HG00015880, HG00016965, HG00024919	MG769945, MG769946, MG805598, MG805599, MH049687, MH401269, MN016184	Histogenetics, Ossining, USA

(continued on next page)

Table 2 (continued)

HLA Allele	Cell identification	Accession number	Submitting author
<i>DPA1*01:15</i>	HG00015324	MG805594	Histogenetics, Ossining, USA
<i>DPA1*01:15</i>	HG00015326, HG00016512	MG805596, MH215986	Histogenetics, Ossining, USA
<i>DPA1*01:19</i>	HLA-UERJ-96295	MN107036	Romulo Vianna, Rio de Janeiro, Brazil
<i>DPA1*01:22</i>	HG00016513	MH215987	Histogenetics, Ossining, USA
<i>DPA1*01:27</i>	HG00025390	MN251785	Histogenetics, Ossining, USA
<i>DPA1*02:07:02</i>	HG00015318	MF460509	Histogenetics, Ossining, USA
<i>DPA1*02:17</i>	HG00025317	MN136851	Histogenetics, Ossining, USA
<i>DPA1*02:21</i>	HG00024920, HG00024921, HG00024922	MN016185, MN016186, MN016187	Histogenetics, Ossining, USA
<i>DPB1*02:01:19</i>	M7	LR585303	Steven GE Marsh, London, United Kingdom
<i>DPB1*02:01:19</i>	CC	LR585253	Steven GE Marsh, London, United Kingdom
<i>DPB1*02:01:19</i>	T1IL68756	MN258028	Susana R Marino, Chicago, USA
<i>DPB1*02:01:22</i>	HG00015936	MH173682	Histogenetics, Ossining, USA
<i>DPB1*02:01:25</i>	HG00025395	MH477583	Histogenetics, Ossining, USA
<i>DPB1*02:01:25</i>	HG00025391	MH173714	Histogenetics, Ossining, USA
<i>DPB1*02:01:25</i>	HG00025431	MK394536	Histogenetics, Ossining, USA
<i>DPB1*02:01:35</i>	HG00024941	MN016151	Histogenetics, Ossining, USA
<i>DPB1*04:01:39</i>	HG00021055, HG00021210, HG00021222, HG00021251	MK192226, MK309196, MK309208, MK309238	Histogenetics, Ossining, USA
<i>DPB1*04:01:42</i>	1910355197	MN251799	Jonathan Visentin, Bordeaux, France
<i>DPB1*04:02:12</i>	HG00019311, HG00021353	MK144035, MK394528	Histogenetics, Ossining, USA
<i>DPB1*1003:01</i>	HG00025422	MK300502	Histogenetics, Ossining, USA
<i>DPB1*1037:01</i>	HG00025323	MN136833	Histogenetics, Ossining, USA
<i>DPB1*13:01:03</i>	HG00021262	MK309250	Histogenetics, Ossining, USA
<i>DPB1*13:01:03</i>	HG00025399, HG00025417	MH779266, MK300473	Histogenetics, Ossining, USA
<i>DPB1*14:01:05</i>	HG00014273	MG701676	Histogenetics, Ossining, USA
<i>DPB1*17:01:02</i>	HG00014544	MG756996	Histogenetics, Ossining, USA
<i>DPB1*417:01:02</i>	HG00025396	MH536327	Histogenetics, Ossining, USA
<i>DPB1*523:01:02</i>	HG00022424	MK844129	Histogenetics, Ossining, USA
<i>DPB1*535:01</i>	HG00025429, HG00025430	MK394531, MK394532	Histogenetics, Ossining, USA
<i>DPB1*55:01:02</i>	HG00025412	MK192227	Histogenetics, Ossining, USA
<i>DPB1*651:01</i>	HG00025433	MK394551	Histogenetics, Ossining, USA
<i>DPB1*651:01</i>	HG00025438	MK442279	Histogenetics, Ossining, USA
<i>DPB1*661:01N</i>	HG00025437	MK394588	Histogenetics, Ossining, USA
<i>DPB1*672:01</i>	HG00015031	MG769920	Histogenetics, Ossining, USA
<i>DPB1*696:01N</i>	HG00021434	MK442264	Histogenetics, Ossining, USA
<i>DPB1*699:01</i>	HG00013910	MG701647	Histogenetics, Ossining, USA
<i>DPB1*704:01</i>	HG00017770, HG00017774, HG00019663	MH779357, MH779361, MK165919	Histogenetics, Ossining, USA
<i>DPB1*704:01</i>	HG00025434	MK394564	Histogenetics, Ossining, USA
<i>DPB1*705:01</i>	HG00025406	MK144011	Histogenetics, Ossining, USA
<i>DPB1*706:01</i>	HG00025402	MH779376	Histogenetics, Ossining, USA
<i>DPB1*736:01</i>	HG00021123	MK257933	Histogenetics, Ossining, USA
<i>DPB1*736:01</i>	HG00025394	MH173771	Histogenetics, Ossining, USA
<i>DPB1*762:01</i>	HG00025423	MK309221	Histogenetics, Ossining, USA
<i>DPB1*779:01</i>	HG00025405	MK058539	Histogenetics, Ossining, USA
<i>DPB1*786:01:01N</i>	HG00014638	MG769901	Histogenetics, Ossining, USA
<i>DPB1*799:01</i>	HG00013583	MG451028	Histogenetics, Ossining, USA
<i>DPB1*799:01</i>	HG00014514	MG756965	Histogenetics, Ossining, USA
<i>DPB1*807:01</i>	HG00024924	MK920393	Histogenetics, Ossining, USA
<i>DPB1*878:01N</i>	UOU0005	MK945601	Eszter Lazar-Molnar, Salt Lake City, USA
<i>DPB1*897:01</i>	HG00025400	MH779274	Histogenetics, Ossining, USA
<i>DPB1*899:01</i>	HG00025415	MK257946	Histogenetics, Ossining, USA
<i>DPB1*905:01</i>	HG00025393	MH173752	Histogenetics, Ossining, USA
<i>DPB1*913:01</i>	HG00025401	MH779298	Histogenetics, Ossining, USA
<i>DPB1*945:01</i>	HG00025445	MN251791	Histogenetics, Ossining, USA
<i>DPB1*966:01</i>	DKMS-LSL_ID10722746	LR137066	DKMS Life Sciences Lab, Dresden, Germany
<i>DPB1*971:01</i>	HG00021114	MK225467	Histogenetics, Ossining, USA
<i>DPB1*974:01N</i>	HG00021470, HG00021478	MK442302, MK442312	Histogenetics, Ossining, USA
<i>DPB1*975:01</i>	HG00025409	MK144124	Histogenetics, Ossining, USA
<i>DPB1*975:01</i>	HG00022428, HG00024947	MK844133, MN016158	Histogenetics, Ossining, USA
<i>DPB1*976:01</i>	HG00024936	MK937955	Histogenetics, Ossining, USA
<i>DPB1*978:01</i>	HG00018316, HG00021240	MK309248, MK309227	Histogenetics, Ossining, USA
<i>DPB1*988:01</i>	HG00021126	MK257937	Histogenetics, Ossining, USA
<i>DPB1*989:01</i>	HG00022422	MK844127	Histogenetics, Ossining, USA
<i>DPB1*989:01</i>	HG00025053	MN053456	Histogenetics, Ossining, USA
<i>DPB1*992:01</i>	HG00021234	MK309220	Histogenetics, Ossining, USA

Table 3
Recently Published Sequences.

HLA Allele	References
A*01:01:01:13	[4]
A*01:01:01:14	[4]
A*01:268	[5]
A*01:289	[6]
A*01:308N	[7]
A*02:01:01:06	[4]
A*02:01:01:20	[4]
A*02:01:01:29	[4]
A*02:01:01:30	[4]
A*02:01:156	[8]
A*02:01:19	[4]
A*02:474	[9]
A*02:672Q	[10]
A*02:828	[11]
A*02:839	[12]
A*03:01:01:17	[4]
A*03:01:70	[4]
A*03:08:01:02	[13]
A*03:350	[14]
A*03:351	[15]
A*03:365	[16]
A*11:01:01:07	[4]
A*11:01:01:09	[4]
A*11:324	[17]
A*24:02:01:06	[4]
A*24:401	[5]
A*24:460	[18]
A*26:01:49	[8]
A*30:01:13	[19]
A*30:02:01:04	[4]
A*30:04:01:01	[4]
A*30:115	[20]
A*30:118	[21]
A*30:12:02	[5]
A*31:150	[22]
A*31:74	[23]
A*32:01:01:04	[4]
A*33:136	[5]
A*33:172	[24]
A*33:176N	[25]
A*68:01:02:04	[4]
A*68:01:42	[26]
A*68:05	[4]
B*07:02:73	[27]
B*07:03	[4]
B*08:181	[28]
B*08:242	[29]
B*13:103N	[30]
B*13:64	[31]
B*14:01:01:03	[4]
B*14:02:01:03	[4]
B*15:01:01:03	[4]
B*15:01:01:13	[4]
B*15:01:01:15	[4]
B*15:07:01:02	[4]
B*15:13:01	[4]
B*15:141	[32]
B*15:146	[33]
B*15:220:01:01	[4]
B*15:29:01:01	[4]
B*15:504	[34]
B*15:539	[35]
B*18:01:01:03	[4]
B*18:01:01:09	[4]
B*18:01:01:10	[4]
B*18:147	[36]
B*27:02:01:01	[4]
B*27:02:01:04	[4]
B*27:05:02:06	[4]
B*27:05:38	[37]
B*27:175	[5]
B*35:01:01:09	[4]
B*35:02:01:03	[4]
B*35:03:01:04	[4]

(continued on next page)

Table 3 (continued)

HLA Allele	References
B*35:05:01:01	[4]
B*35:08:01:01	[4]
B*35:10	[4]
B*35:369	[5]
B*35:379	[4]
B*37:87	[38]
B*38:68L	[39]
B*38:82	[8]
B*39:132	[4]
B*40:01:43	[40]
B*40:221	[41]
B*40:357	[42]
B*40:405	[43]
B*40:54	[44]
B*40:62	[45]
B*41:02:01:01	[4]
B*44:02:01:07	[4]
B*44:03:01:09	[4]
B*44:03:01:19	[46]
B*44:04	[4]
B*44:06	[4]
B*44:278	[5]
B*49:01:01:03	[4]
B*50:02:01:01	[4]
B*50:31	[47]
B*51:08:01:02	[4]
B*51:20	[4]
B*51:285	[48]
B*52:01:01:05	[4]
B*54:39	[49]
B*56:01:01:01	[4]
B*56:55:01:02	[4]
B*56:67	[50]
B*58:01:01:04	[4]
B*58:01:13	[51]
B*58:74	[52]
C*01:166	[53]
C*02:02:02:05	[4]
C*02:02:02:14	[4]
C*02:02:33	[4]
C*02:02:37	[5]
C*02:06:01	[4]
C*03:02:17	[21]
C*03:03:01:10	[4]
C*03:03:54	[54]
C*03:04:02:01	[4]
C*03:05	[4]
C*03:113:01	[4]
C*03:16	[4]
C*03:358	[4]
C*03:372:01	[55]
C*03:404	[8]
C*03:465	[56]
C*03:466	[57]
C*04:01:01:19	[4]
C*04:01:01:20	[4]
C*04:01:01:21	[4]
C*04:01:01:22	[4]
C*04:01:93	[5]
C*04:14	[4]
C*04:286	[58]
C*05:01:01:03	[4]
C*05:01:01:12	[4]
C*05:01:01:17	[59]
C*05:03	[4]
C*05:158	[5]
C*05:42	[4]
C*06:211:01:01N	[5]
C*07:01:01:25	[4]
C*07:01:02:01	[4]
C*07:02:01:11	[4]
C*07:02:01:18	[4]
C*07:02:01:28	[4]
C*07:02:107	[60]
C*07:100	[4]

(continued on next page)

Table 3 (continued)

HLA Allele	References
C*07:160	[61]
C*07:36	[4]
C*07:465	[62]
C*07:595	[63]
C*07:630	[5]
C*07:724	[64]
C*07:778	[65]
C*08:01:25	[66]
C*08:02:01:02	[4]
C*08:125	[67]
C*08:159	[68]
C*08:178	[69]
C*08:80	[70]
C*12:03:01:10	[4]
C*12:220	[71]
C*14:02:01:05	[4]
C*14:51	[72]
C*15:02:01:06	[4]
C*15:144	[73]
C*16:02:17	[74]
C*16:123N	[75]
C*16:152	[59]
C*17:03:01:03	[4]
E*01:03:07	[76]
DRB1*01:100	[77]
DRB1*04:01:10	[78]
DRB1*04:90	[79]
DRB1*14:207	[80]
DRB1*14:25:02	[81]
DRB1*16:01:01	[82]
DRB1*16:53	[83]
DRB3*02:02:17	[84]
DRB5*01:01:01:01	[82]
DRB5*01:02	[82]
DRB5*01:03	[82]
DRB5*01:08:01N	[82]
DRB5*01:40	[4]
DRB5*02:02:01	[82]
DRB5*02:03	[82]
DRB5*02:21	[85]
DQA1*01:01:05	[86]
DQA1*01:18	[8]
DQA1*01:19	[8]
DQA1*01:20	[8]
DQA1*01:21	[8]
DQA1*01:22	[87]
DQA1*01:25	[88]
DQA1*01:27	[89]
DQA1*05:13	[8]
DQB1*02:109	[4]
DQB1*02:139	[90]
DQB1*02:140	[90]
DQB1*03:01:01:21Q	[91]
DQB1*03:02:01:08	[92]
DQB1*03:13	[93]
DQB1*03:353	[94]
DQB1*05:115	[95]
DQB1*05:163	[5]
DQB1*05:217	[96]
DQB1*06:243	[5]
DPA1*01:20	[97]
DPA1*02:14	[24]
DPA1*02:15	[98]
DPB1*417:01:02	[99]
DPB1*687:01	[100]
DPB1*835:01:01:01	[8]
MICA*088N	[101]

References

- [1] S.G.E. Marsh, Nomenclature for factors of the HLA system, update April, May, and June 2019, *HLA* 94 (2) (2019) 188.
- [2] S.G.E. Marsh, E.D. Albert, W.F. Bodmer, R.E. Bontrop, B. Dupont, H.A. Erlich, M. Fernandez-Vina, D.E. Geraghty, R. Holdsworth, C.K. Hurlley, M. Lau, K.W. Lee, B. Mach, M. Maiers, W.R. Mayr, C.R. Muller, P. Parham, E.W. Petersdorf, T. Sasazuki, J.L. Strominger, A. Svejgaard, P.I. Terasaki, J.M. Tiercy, J. Trowsdale, Nomenclature for factors of the HLA system, 2010, *Tissue Antigens* 75 (4) (2010) 291.
- [3] J. Robinson, J.A. Halliwell, J.D. Hayhurst, P. Flicek, P. Parham, S.G.E. Marsh, The IPD and IMGT/HLA database: allele variant databases, Database issue, *Nucleic Acids Res* 43 (2015) D423.
- [4] L. Hou, E. Enriquez, M. Persaud, N. Steiner, M. Oudshoorn, C.K. Hurlley, Next generation sequencing characterizes HLA diversity in a registry population from the Netherlands, *HLA* 93 (6) (2019) 474.
- [5] E. Enrich, E. Campos, L. Martorell, M.J. Herrero, F. Vidal, S. Querol, F. Rudilla, HLA-A, -B, -C, -DRB1, and -DQB1 allele and haplotype frequencies: An analysis of umbilical cord blood units at the Barcelona cord blood bank, *HLA* 94 (4) (2019) 347.
- [6] T. Galluccio, F. Locatelli, M. Troiano, G. Testa, M. Andreani, Identification of the novel HLA-A*01:289 allele in an Italian patient, *HLA* 93 (6) (2019) 484.
- [7] A.S. Hynne, B.I. Hopland, T. Jensen, L.M.L. Boulland, M.K. Viken, The novel HLA-A*01 variant, HLA-A*01:308N, detected by sequencing-based typing, *HLA* 94 (3) (2019) 312.
- [8] K.J. Ingram, H. Merckens, E.F. O'Shields, D. Kiger, M.D. Gautreaux, New HLA alleles discovered by next generation sequencing in routine histocompatibility lab work in a medium-volume laboratory, *Hum. Immunol.* 80 (7) (2019) 465.
- [9] K.L. Yang, P.Y. Lin, Detection of an HLA-A*02 variant, HLA-A*02:474, in a Taiwanese individual, *HLA* 94 (1) (2019) 57.
- [10] K.L. Yang, P.Y. Lin, HLA-A*02:672Q, a novel HLA-A*02 variant, detected in a Taiwanese individual, *HLA* 94 (1) (2019) 59.
- [11] Y. Wang, Y. Zhou, A novel HLA-A*02 allele, A*02:828, identified by next-generation sequencing in a Chinese individual, *HLA* 94 (3) (2019) 313.
- [12] V.N. Stelet, R.F. Cita, M. Romero, M.F. Mendes, R. Binato, Identification of the novel HLA-A*02:839 allele in a Brazilian candidate for bone marrow donation, *HLA* 94 (4) (2019) 365.
- [13] B.I. Hopland, S.H. Andersen, T. Jensen, L.M.L. Boulland, M.K. Viken, The novel HLA-A*03 variant, HLA-A*03:08:01:02, detected by sequencing-based typing, *HLA* 94 (1) (2019) 60.
- [14] M. Cargou, V. Elsermans, I. Top, G. Guidicelli, J. Visentin, Characterization of the novel HLA-A*03:350 allele by sequencing-based typing, *HLA* 94 (2) (2019) 154.
- [15] V.N. Stelet, M. Romero, E. Abdelhay, M.F. Mendes, R.F. Cita, Identification of the novel HLA-A*03:351 allele in two Brazilian candidates for related bone marrow donation, *HLA* 94 (4) (2019) 366.
- [16] M. Loginova, V. Cheranev, I. Paramonov, Description of a novel HLA-A allele, HLA-A*03:365, identified in a bone marrow donor from Russia, *HLA* 94 (4) (2019) 367.
- [17] M. Cargou, V. Elsermans, I. Top, G. Guidicelli, J. Visentin, Characterization of the novel HLA-A*11:324 allele by sequencing-based typing, *HLA* 94 (2) (2019) 155.
- [18] K.H. Shin, H.J. Lee, J. Lee, S.J. Choi, H.H. Kim, A novel HLA-A*24:460 allele identified in a hematopoietic stem cell transplantation donor and recipient, *HLA* 94 (4) (2019) 368.
- [19] L.Q. Zhang, Y. Xiao, X.Y. Zhou, J. Cui, J. Li, J.P. Cai, Identification of the novel HLA-A*30:01:13 allele in a volunteer donor from the China marrow donor program, *HLA* 94 (4) (2019) 370.
- [20] X. Li, H. Xu, X. Mo, H. Yang, Sequence-based typing identification of a novel allele HLA-A*30:115, *HLA* 94 (3) (2019) 314.
- [21] W. Wang, F. Wang, W. Zhang, J. He, F. Zhu, Description of two new HLA alleles: HLA-A*30:118 and HLA-C*03:02:17, *HLA* 94 (4) (2019) 371.
- [22] S.Z. Liang, Z.R. Quan, W.X. Hong, H.Y. Zou, Identification of HLA-A*31:150 by next-generation sequencing in a Chinese Han individual, *HLA* 94 (4) (2019) 373.
- [23] X. Li, Y. Zhuang, C. Zhao, A novel HLA-A allele, A*31:74, was identified by sequence-based typing in a Chinese potential donor, *HLA* 94 (1) (2019) 61.
- [24] L.E. Creary, S.G. Guerra, W. Chong, C.J. Brown, T.R. Turner, J. Robinson, W.P. Bultitude, N.P. Mayor, S.G.E. Marsh, K. Saito, K. Lam, J.L. Duke, T.L. Mosbrugger, D. Ferriola, D. Monos, A. Willis, M. Askar, G. Fischer, C.L. Saw, J. Ragoussis, M. Petrek, C. Serra-Pages, M. Juan, C. Stavropoulos-Giokas, A. Dinou, R. Ameen, S. Al Shemari, E. Spierings, K. Gendzekhadze, G.P. Morris, Q. Zhang, Z. Kashi, S. Hsu, S. Gangavarapu, K.C. Mallempati, F. Yamamoto, K. Osoegawa, T. Vayntrub, C.J. Chang, J.A. Hansen, M.A. Fernandez-Vina, Next-generation HLA typing of 382 International Histocompatibility Working Group reference B-lymphoblastoid cell lines: report from the 17th international HLA and immunogenetics workshop, *Hum. Immunol.* 80 (7) (2019) 449.
- [25] K.L. Yang, P.Y. Lin, Detection of an HLA-A*33 variant, HLA-A*33:176N, in a Taiwanese individual, *HLA* 94 (3) (2019) 316.
- [26] B. Liu, L. Yu, Z. Ma, A novel HLA-A allele, HLA-A*68:01:42, identified by next-generation sequencing in a Chinese individual, *HLA* 94 (1) (2019) 63.
- [27] V. Elsermans, J. Visentin, I. Top, P. Varlet, M. Labalette, Characterization of the novel HLA-B*07:02:73 allele by sequencing-based typing, *HLA* 94 (1) (2019) 65.
- [28] A. Sorman, C. Knutson, M. Bengtsson, Identification of the novel HLA-B*08:181 allele in a volunteer donor for hematopoietic stem cells, *HLA* 93 (6) (2019) 485.
- [29] M. Alburaf, F. AlSebaiheen, A. Alblaihed, A. Alshubaili, A.H. Hajeer, A novel HLA-B allele, HLA-B*08:242, identified by next-generation sequencing in a Saudi individual, *HLA* 94 (4) (2019) 375.
- [30] C. Xiaoyun, J. Shuxian, H. Bin, F. Zhihui, A novel HLA-B*13 allele, B*13:103N, was identified by sequencing-based typing, *HLA* 94 (3) (2019) 318.
- [31] J.P. Li, X. Zhang, F.Q. Lin, K.L. Zhang, X.F. Li, HLA-B*13:64, a novel allele, identified in a Chinese individual, *HLA* 94 (4) (2019) 376.
- [32] K.L. Yang, P.Y. Lin, Detection of an HLA-B*15 variant, HLA-B*15:141, in a Taiwanese individual, *HLA* 94 (1) (2019) 66.
- [33] K.L. Yang, P.Y. Lin, Recognition of an HLA-B*15:01:01:01 variant, HLA-B*15:146, in a Taiwanese individual, *HLA* 94 (3) (2019) 320.
- [34] L. Wang, Y. Zhou, Identification of a novel HLA-B*15 allele, HLA-B*15:504, in a Chinese individual, *HLA* 94 (4) (2019) 379.
- [35] G. Benedek, M. Abed El-Latif, K. Miller, E. Galun, M. Levite, Identification of the novel HLA-B allele, HLA-B*15:539, in a South-Sudanese individual, *HLA* 94 (4) (2019) 380.
- [36] L.X. Gonzalez-Acero, B. Camacho-Rodriguez, A.M. Perdomo-Arciniegas, Identification of the novel HLA-B*18:147 allele in two Colombian umbilical cord blood bank samples, *HLA* 94 (3) (2019) 322.
- [37] A.J. Gareau, A.A. Mostafa, L. Stamm, F. Khan, N. Berka, The identification of a novel HLA-B allele, HLA-B*27:05:38, *HLA* 94 (2) (2019) 157.
- [38] A. Alanazi, M. Alburaf, A. Alblaihed, F. AlSebaiheen, A. Alshubaili, Identification of the novel HLA-B*37:87 allele in a Saudi individual, *HLA* 94 (2) (2019) 158.
- [39] Y. Yin, E.F. Reed, Q. Zhang, Integrate CRISPR/Cas9 for protein expression of HLA-B*38:68Q via precise gene editing, *Sci. Rep.* 9 (1) (2019) 8067.
- [40] Z.H. Feng, Q. Yu, B. Li, S.X. Jiao, Identification of a novel HLA-B*40 allele, B*40:01:43, in a Chinese individual, *HLA* 94 (3) (2019) 324.
- [41] K.L. Yang, P.Y. Lin, HLA-B*40:221, an HLA-B*40 variant, detected in Taiwanese individuals, *HLA* 93 (6) (2019) 489.
- [42] S. Zhao, W. Wang, W. Zhang, J. He, F. Zhu, Identification of the novel HLA-B*40:357 allele by polymerase chain reaction sequence-based typing, *HLA* 94 (1) (2019) 68.
- [43] S. Yu, J.H. Shim, K.J. Park, S.J. Choi, K.R. Jun, Identification of a novel HLA-B*40 variant allele, B*40:405 by next-generation sequencing, *HLA* 93 (6) (2019) 491.
- [44] P. Chen, Y. Xu, Genomic full-length sequence of HLA-B*40:54 was identified by full-length group-specific sequencing, *HLA* 93 (6) (2019) 487.
- [45] K.L. Yang, P.Y. Lin, HLA-B*40:62, an HLA-B*40 variant, detected in a Taiwanese potential unrelated hematopoietic stem cell donor, *HLA* 94 (3) (2019) 325.
- [46] A. Alqasem, H. Alanazi, F. Aloufi, A. Alanazi, A.H. Hajeer, A novel HLA-B allele, HLA-B*44:03:01:19, identified by next-generation sequencing in a Saudi individual, *HLA* 94 (4) (2019) 381.
- [47] P. Chen, Y. Xu, Genomic full-length sequence of HLA-B*50:31 was identified by full-length group-specific sequencing, *HLA* 93 (6) (2019) 493.
- [48] L.Q. Zhang, Y. Xiao, X.Y. Zhou, J. Li, J.P. Cai, Identification of the novel HLA-B*51:285 allele in a volunteer donor from the China marrow donor program, *HLA* 94 (4) (2019) 382.
- [49] J. Choi, J. Im, Y. Cho, A new allele, HLA-B*54:39, identified by sequence-based typing in a Korean individual, *HLA* 94 (1) (2019) 70.
- [50] F. Touzain, J.L. Celton, D.J. Barker, T.R. Turner, S.G.E. Marsh, A novel HLA allele, HLA-B*56:67, identified in a Melanesian individual from New Caledonia, *HLA* 94 (4) (2019) 384.
- [51] J.W. Zheng, J.H. Xie, Y. Sun, D. Xiang, A novel HLA-B allele: HLA-B*58:01:13, *HLA*, 93 (6) (2019) 492.
- [52] L. Cho, A. Kaur, N. Cereb, P.Y. Lin, K.L. Yang, Discovery of HLA-B*58:74, a novel HLA-B*58 variant, in Singaporean Chinese individuals, *HLA* 93 (6) (2019) 496.
- [53] L.X. Gonzalez-Acero, B. Camacho-Rodriguez, A.M. Perdomo-Arciniegas, Characterization of a novel HLA-C allele, HLA-C*01:166, in a Colombian umbilical cord blood bank donor, *HLA* 94 (4) (2019) 386.
- [54] K.L. Yang, P.Y. Lin, Discovery of an HLA-C*03:03:01:01 variant, HLA-C*03:03:54, in a Taiwanese individual, *HLA* 94 (3) (2019) 327.
- [55] X. You, W. Wang, W. Zhang, J. He, F. Zhu, Characterization of the novel HLA-C*03:372 allele by next-generation sequencing, *HLA* 94 (1) (2019) 71.
- [56] S.K. Roh, J.Y. Ham, N.Y. Lee, J. Im, H. Lee, Identification of a novel HLA-C*03 variant, C*03:465, using sequence-based typing in a Korean man, *HLA* 94 (3) (2019) 328.
- [57] F. Liu, J. Chen, Characterization of a novel allele, HLA-C*03:466 allele by sequencing-based typing in a Chinese Han individual, *HLA* 94 (3) (2019) 330.
- [58] W. Zhang, Y. He, X. You, J. He, F. Zhu, Identification of the novel HLA-C*04:286 allele by next-generation sequencing in a Chinese cord blood donor, *HLA* 94 (1) (2019) 73.
- [59] A. Balas, M.A. Moreno-Hidalgo, R. Alenda, F. Garcia-Sanchez, J.L. Vicario, Characterization of two new HLA-C alleles, HLA-C*05:01:01:17 and -C*16:152, *HLA* 94 (2) (2019) 159.
- [60] L.Q. Zhang, Y. Xiao, X.Y. Zhou, J. Li, J.P. Cai, Identification of the novel HLA-C*07:02:107 allele in a volunteer donor from the China marrow donor program, *HLA* 94 (4) (2019) 388.
- [61] K.L. Yang, P.Y. Lin, HLA-C*07:160, a novel HLA-C*07 variant, detected in a Taiwanese hematopoietic stem cell donor, *HLA* 94 (1) (2019) 75.
- [62] A. Kaur, L. Cho, N. Cereb, P.Y. Lin, K.L. Yang, HLA-C*07:465, a novel HLA-C*07 variant, detected in a Singaporean Chinese individual, *HLA*, 93 (6) (2019) 497.
- [63] K.L. Yang, P.Y. Lin, Detection of HLA-C*07:595, an HLA-C*07 variant, in a Taiwanese hematopoietic stem cell donor, *HLA* 93 (6) (2019) 499.
- [64] V. Elsermans, J. Visentin, I. Top, P. Varlet, M. Labalette, Characterization of the novel HLA-C*07:724 allele by sequencing-based typing, *HLA* 94 (1) (2019) 77.
- [65] A.J. Gareau, A.A. Mostafa, J. Williams, L. Stamm, N. Berka, Identification of a novel HLA-C allele, HLA-C*07:778, in an unrelated hematopoietic stem cell donor, *HLA* 94 (2) (2019) 161.
- [66] D. Zhou, H.Y. Zou, HLA-C*08:01:25, a novel HLA allele, which has arisen by a silent mutation in codon 271, *HLA* 94 (2) (2019) 162.

- [67] X. Yang, H. Zou, L. He, Characterization of a novel variant allele, HLA-C*08:125, identified in a Chinese Han individual, HLA 94 (1) (2019) 78.
- [68] Y. He, W. Wang, X. You, J. He, Z. Faming, Characterization of the novel HLA-C*08:159 allele by next-generation sequencing, HLA 93 (6) (2019) 502.
- [69] K.L. Yang, P.Y. Lin, Detection of HLA-C*08:178, a novel HLA-C*08 variant, in a Taiwanese hematopoietic stem cell donor, HLA 93 (6) (2019) 504.
- [70] B. Cheng, X. Mo, Q. Feng, M. Fang, The novel HLA-C*08:80 allele identified by full-length sequencing of the HLA region, HLA 93 (6) (2019) 500.
- [71] W. Wang, F. Wang, X. You, J. He, F. Zhu, Identification of the novel HLA-C*12:220 allele in a Chinese individual, HLA 94 (1) (2019) 80.
- [72] K.L. Yang, C.D. Phu, P.Y. Lin, Detection of HLA-C*14:51 in a Vietnamese cord blood specimen, HLA 94 (2) (2019) 164.
- [73] X. Ai, J. Wang, Y. Zhang, Q. Li, X. Wang, A new HLA-C allele, HLA-C*15:144, identified in a Chinese family, HLA 94 (1) (2019) 82.
- [74] V. Stelet, R. Cita, M. Romero, M. Mendes, R. Binato, Identification of the new HLA-C*16:02:17 allele in a Brazilian candidate donor for bone marrow donation, HLA 94 (3) (2019) 332.
- [75] Z. Al Yafei, M.S. Alvares, L.M. Alkathერი, A. Al Mahri, G. ElGhazali, Identification of a novel HLA-C allele, HLA-C*16:123N, in an Emirati blood donor, HLA 93 (6) (2019) 505.
- [76] L.Y. Sun, Y.P. Xu, W.X. Hong, H. Liu, In a healthy Chinese blood donor, a novel allele, HLA-E*01:03:07 was detected. HLA 94 (4) (2019) 389.
- [77] M. Cargou, V. Elsermans, I. Top, G. Guidicelli, J. Visentin, Characterization of the novel HLA-DRB1*01:100 allele by sequencing-based typing, HLA 94 (2) (2019) 166.
- [78] K.L. Yang, P.Y. Lin, The novel HLA-DRB1*04:01:10 allele detected in a Taiwanese individual, HLA 94 (1) (2019) 83.
- [79] K.L. Yang, P.Y. Lin, The HLA-DRB1*04:90 allele recognized in a Taiwanese individual, HLA 94 (2) (2019) 167.
- [80] V. Elsermans, J. Visentin, I. Top, P. Varlet, M. Labelette, Characterization of the novel HLA-DRB1*14:207 allele by sequencing-based typing, HLA 94 (1) (2019) 85.
- [81] K.L. Yang, C.D. Phu, P.Y. Lin, The novel HLA-DRB1*14:25:02 allele discovered in a Vietnamese cord blood specimen, HLA 94 (2) (2019) 169.
- [82] K. Barsakis, F. Babrzadeh, A. Chi, K. Mallempati, W. Pickle, M. Mindrinos, M.A. Fernandez-Vina, Complete nucleotide sequence characterization of DRB5 alleles reveals a homogeneous allele group that is distinct from other DRB genes, Hum. Immunol. 80 (7) (2019) 437.
- [83] K.L. Yang, P.Y. Lin, Discovery of a novel HLA-DRB1*16 variant, HLA-DRB1*16:53, in a Taiwanese hematopoietic stem cell donor, HLA 93 (6) (2019) 506.
- [84] M. Cargou, M. Andreani, M. Battarra, G. Guidicelli, J. Visentin, Characterization of the novel HLA-DRB3*02:02:17 allele by sequencing-based typing, HLA 94 (2) (2019) 170.
- [85] F. Aloufi, M. Gattan, H. Alanazi, A. Alqasem, A.H. Hajeer, Identification of the novel HLA-DRB5*02:21 allele in a Saudi individual, HLA 93 (6) (2019) 507.
- [86] M. Ralazamahaleo, M. Andreani, P. Giustiniani, G. Guidicelli, J. Visentin, Characterization of the novel HLA-DQA1*01:01:05 allele by sequencing-based typing, HLA 94 (2) (2019) 172.
- [87] M. Cargou, M. Andreani, M. Troiano, G. Guidicelli, J. Visentin, Characterization of the novel HLA-DQA1*01:22 allele by sequencing-based typing, HLA 94 (3) (2019) 333.
- [88] M. Cargou, M. Andreani, T. Galluccio, G. Guidicelli, J. Visentin, Characterization of the novel HLA-DQA1*01:25 allele by sequencing-based typing, HLA 94 (2) (2019) 174.
- [89] M. Ralazamahaleo, M. Andreani, A. Di Luzio, G. Guidicelli, J. Visentin, Characterization of the novel HLA-DQA1*01:27 allele by sequencing-based typing, HLA 94 (4) (2019) 392.
- [90] Y. Zhou, Q. Zhang, Y. Wang, L. Wang, K. Liu, Identification of two novel HLA class II alleles, HLA-DQB1*02:139 and HLA-DQB1*02:140, in northern Chinese individuals, HLA 93 (6) (2019) 508.
- [91] L.A. Marin Rubio, R. Rada, J. Ontanon, HLA-DQB1*03:01:01:21Q, a novel HLA-DQB1 allele, detected in a Spanish volunteer bone marrow donor, HLA 94 (4) (2019) 393.
- [92] M. Ralazamahaleo, V. Elsermans, I. Top, G. Guidicelli, J. Visentin, Characterization of the novel HLA-DQB1*03:02:01:08 allele by sequencing-based typing, HLA 94 (3) (2019) 335.
- [93] X.X. Zhong, Z.R. Quan, X.H. Zeng, C.L. Zhang, W.D. Wu, Identification of the novel HLA-DQB1*03:13 allele by next-generation sequencing in a Chinese Han individual, HLA 94 (4) (2019) 394.
- [94] V. Elsermans, J. Visentin, I. Top, P. Varlet, M. Labelette, Characterization of the novel HLA-DQB1*03:353 allele by sequencing-based typing, HLA 94 (1) (2019) 86.
- [95] A. Kaur, L. Cho, N. Cereb, P.Y. Lin, K.L. Yang, HLA-DQB1*05:115, an HLA-DQB1*05:01:01:01 variant, identified in a Singaporean Indian individual. HLA 94 (2) (2019) 176.
- [96] K.L. Yang, P.Y. Lin, HLA-DQB1*05:217, an HLA-DQB1*05:01:01:01 variant, identified in a Taiwanese individual. HLA 94 (2) (2019) 178.
- [97] M. Cargou, M. Andreani, G. Testa, G. Guidicelli, J. Visentin, Characterization of the novel HLA-DPA1*01:20 allele by sequencing-based typing, HLA 94 (4) (2019) 396.
- [98] L. Blouin, M. Andreani, F. Locatelli, G. Guidicelli, J. Visentin, Characterization of the novel HLA-DPA1*02:15 allele by sequencing-based typing, HLA 94 (2) (2019) 179.
- [99] J.B. Sherrill, N. Cereb, C.S. Ho, Identification of a novel allele, HLA-DPB1*417:01:02, in an African American deceased donor, HLA 94 (1) (2019) 88.
- [100] C. Biagini, S. Fornaciari, M.L. Mariotti, A. Mazzoni, M. Curcio, Identification of a novel HLA-DPB1, HLA-DPB1*687:01, in an Italian renal transplant candidate, HLA 94 (1) (2019) 89.
- [101] Z. Wang, W.T. Guo, M. Tursun, W. Tian, A. Hasim, Identification of a novel allele, MICA*088N, in a Chinese Kazakh individual, HLA 94 (4) (2019) 400.