

**Supplementary File 5.** Common Heterozygotes by Allele for six HLA loci (N:6100)

**TABLE S1.** Common Heterozygotes by Allele for HLA-A\*.

	Observed	Expected	Chi-square	p-value
A*01	1163	1213.83	2.13	0.1446
A*02	2191	2289.00	4.20	0.0405*
A*03	1238	1236.26	0.00	0.9606
A*11	828	857.41	1.01	0.3152
A*23	390	394.36	0.05	0.8264
A*24	1497	1547.79	1.67	0.1967
A*25	128	128.61	0.00	0.9568
A*26	640	665.14	0.95	0.3296
A*29	240	242.96	0.04	0.8495
A*30	366	390.62	1.55	0.2128
A*31	178	187.04	0.44	0.5086
A*32	522	550.62	1.49	0.2227
A*33	338	339.96	0.01	0.9154
A*66	61	60.70	0.00	0.9688
A*68	447	449.12	0.01	0.9202
A*69	83	82.44	0.00	0.9504

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**TABLE S2.** Common Heterozygotes by Allele for HLA-B\*.

	Observed	Expected	Chi-square	p-value
B*07	604	602.84	0.00	0.9625
B*08	448	462.96	0.48	0.4870
B*13	403	425.06	1.14	0.2846
B*14	275	278.34	0.04	0.8412
B*15	409	417.63	0.18	0.6727
B*18	686	689.84	0.02	0.8838
B*27	377	385.95	0.21	0.6487
B*35	1812	1861.40	1.31	0.2522
B*37	168	171.52	0.07	0.7882
B*38	493	518.83	1.29	0.2568
B*39	188	192.85	0.12	0.7268
B*40	456	455.58	0.00	0.9844
B*41	288	292.62	0.07	0.7870
B*44	841	836.16	0.03	0.8672
B*45	32	31.92	0.00	0.9881
B*46	14	13.98	0.00	0.9966
B*47	14	13.98	0.00	0.9966
B*48	63	64.65	0.04	0.8371
B*49	435	471.24	2.79	0.0950
B*50	376	396.22	1.03	0.3097
B*51	1302	1341.12	1.14	0.2854
B*52	354	360.66	0.12	0.7259
B*53	51	52.77	0.06	0.8075
B*54	15	14.98	0.00	0.9962
B*55	395	400.88	0.09	0.7689
B*56	42	45.83	0.32	0.5719
B*57	214	210.25	0.07	0.7957
B*58	203	199.62	0.06	0.8111
B*59	6	6.00	0.00	0.9990
B*73	10	9.99	0.00	0.9979

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**TABLE S3.** Common Heterozygotes by Allele for HLA-C\*.

	Observed	Expected	Chi-square	p-value
C*01	135	141.13	0.27	0.6058
C*02	119	122.62	0.11	0.7438
C*03	184	185.57	0.01	0.9084
C*04	522	573.09	4.55	0.0328*
C*05	89	90.65	0.03	0.8623
C*06	337	344.74	0.17	0.6766
C*07	557	616.49	5.74	0.0166*
C*08	126	132.83	0.35	0.5536
C*12	373	401.78	2.06	0.1510
C*14	151	146.64	0.13	0.7190
C*15	225	237.34	0.64	0.4231
C*16	145	144.81	0.00	0.9872
C*17	66	64.82	0.02	0.8832
C*18	17	16.92	0.00	0.9848

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**TABLE S4.** Common Heterozygotes by Allele for HLA-DRB1\*.

	Observed	Expected	Chi-square	p-value
DRB1*01	779	798.52	0.48	0.4898
DRB1*03	912	906.31	0.04	0.8501
DRB1*04	1470	1530.19	2.37	0.1239
DRB1*07	1002	1033.48	0.96	0.3275
DRB1*08	283	289.77	0.16	0.6909
DRB1*09	154	152.06	0.02	0.8747
DRB1*10	275	278.34	0.04	0.8412
DRB1*11	2022	2027.46	0.01	0.9035
DRB1*12	184	185.10	0.01	0.9354
DRB1*13	1175	1238.57	3.26	0.0709
DRB1*14	719	731.00	0.20	0.6571
DRB1*15	1035	1047.27	0.14	0.7045
DRB1*16	561	562.37	0.00	0.9539

**TABLE S5.** Common Heterozygotes by Allele for HLA-DQB1\*.

	Observed	Expected	Chi-square	p-value
DQB1*02	161	170.83	0.57	0.4518
DQB1*03	283	296.18	0.59	0.4438
DQB1*04	33	34.00	0.03	0.8633
DQB1*05	197	207.91	0.57	0.4494
DQB1*06	166	185.74	2.10	0.1476

**TABLE S6.** Common Heterozygotes by Allele for HLA-DPB1\*

	Observed	Expected	Chi-square	p-value
DPB1*01	15	14.79	0.00	0.9573
DPB1*02	165	165.26	0.00	0.9837
DPB1*03	83	86.74	0.16	0.6884
DPB1*04	285	270.23	0.81	0.3689
DPB1*05	21	20.60	0.01	0.9291
DPB1*09	16	15.77	0.00	0.9529
DPB1*10	16	17.70	0.16	0.6856
DPB1*13	24	23.47	0.01	0.9133
DPB1*14	15	14.79	0.00	0.9573
DPB1*15	13	12.85	0.00	0.9656
DPB1*17	26	25.38	0.02	0.9022