

Supplementary Table S3. List of alleles used in this study.

HLA-A	HLA-B	HLA-C	HLA-DRB1	HLA-DQA1/DQB1
HLA-A*01:01	HLA-B*07:02	HLA-C*01:02	HLA-DRB1*01:01	HLA-DQA1*05:01/DQB1*02:01
HLA-A*01:02	HLA-B*07:04	HLA-C*01:03	HLA-DRB1*01:02	HLA-DQA1*02:01/DQB1*02:01
HLA-A*01:03	HLA-B*07:05	HLA-C*02:02	HLA-DRB1*01:03	HLA-DQA1*02:01/DQB1*02:02
HLA-A*01:06	HLA-B*07:06	HLA-C*02:03	HLA-DRB1*01:04	HLA-DQA1*05:01/DQB1*02:03
HLA-A*02:01	HLA-B*08:01	HLA-C*03:02	HLA-DRB1*03:01	HLA-DQA1*05:01/DQB1*03:01
HLA-A*02:02	HLA-B*08:03	HLA-C*03:03	HLA-DRB1*03:02	HLA-DQA1*03:01/DQB1*03:02
HLA-A*02:03	HLA-B*08:04	HLA-C*03:04	HLA-DRB1*03:03	HLA-DQA1*02:01/DQB1*03:03
HLA-A*02:04	HLA-B*08:05	HLA-C*03:05	HLA-DRB1*03:04	HLA-DQA1*03:01/DQB1*03:03
HLA-A*02:05	HLA-B*13:01	HLA-C*03:07	HLA-DRB1*03:05	HLA-DQA1*03:02/DQB1*03:03
HLA-A*02:06	HLA-B*13:02	HLA-C*04:01	HLA-DRB1*03:06	HLA-DQA1*03:01/DQB1*03:04
HLA-A*02:07	HLA-B*13:03	HLA-C*04:02	HLA-DRB1*03:07	HLA-DQA1*03:01/DQB1*03:05
HLA-A*02:08	HLA-B*13:04	HLA-C*04:04	HLA-DRB1*03:08	HLA-DQA1*05:01/DQB1*03:05
HLA-A*02:09	HLA-B*14:01	HLA-C*04:05	HLA-DRB1*04:01	HLA-DQA1*03:01/DQB1*03:07
HLA-A*02:10	HLA-B*14:02	HLA-C*04:06	HLA-DRB1*04:02	HLA-DQA1*01:03/DQB1*03:19
HLA-A*02:11	HLA-B*14:03	HLA-C*04:07	HLA-DRB1*04:03	HLA-DQA1*01:05/DQB1*03:19
HLA-A*02:12	HLA-B*15:01	HLA-C*05:01	HLA-DRB1*04:04	HLA-DQA1*05:05/DQB1*03:19
HLA-A*02:14	HLA-B*15:02	HLA-C*06:02	HLA-DRB1*04:05	HLA-DQA1*03:01/DQB1*04:01
HLA-A*02:17	HLA-B*15:03	HLA-C*06:04	HLA-DRB1*04:06	HLA-DQA1*03:03/DQB1*04:01
HLA-A*02:19	HLA-B*15:04	HLA-C*06:06	HLA-DRB1*04:07	HLA-DQA1*04:01/DQB1*04:01
HLA-A*02:20	HLA-B*15:05	HLA-C*07:01	HLA-DRB1*04:08	HLA-DQA1*04:01/DQB1*04:02
HLA-A*02:22	HLA-B*15:06	HLA-C*07:02	HLA-DRB1*04:10	HLA-DQA1*01:03/DQB1*05:01
HLA-A*02:24	HLA-B*15:07	HLA-C*07:03	HLA-DRB1*04:11	HLA-DQA1*01:02/DQB1*05:02
HLA-A*02:26	HLA-B*15:08	HLA-C*07:04	HLA-DRB1*04:13	HLA-DQA1*01:01/DQB1*05:03
HLA-A*02:34	HLA-B*15:09	HLA-C*07:05	HLA-DRB1*04:15	HLA-DQA1*01:03/DQB1*06:01
HLA-A*02:35	HLA-B*15:10	HLA-C*07:06	HLA-DRB1*04:17	HLA-DQA1*01:02/DQB1*06:02
HLA-A*02:36	HLA-B*15:11	HLA-C*07:07	HLA-DRB1*07:01	HLA-DQA1*01:03/DQB1*06:02
HLA-A*02:40	HLA-B*15:12	HLA-C*07:08	HLA-DRB1*08:01	HLA-DQA1*01:02/DQB1*06:03
HLA-A*03:01	HLA-B*15:13	HLA-C*07:10	HLA-DRB1*08:02	HLA-DQA1*01:03/DQB1*06:03
HLA-A*03:02	HLA-B*15:15	HLA-C*07:11	HLA-DRB1*08:03	HLA-DQA1*01:02/DQB1*06:06
HLA-A*03:05	HLA-B*15:16	HLA-C*07:18	HLA-DRB1*08:04	HLA-DQA1*01:02/DQB1*06:09
HLA-A*03:08	HLA-B*15:17	HLA-C*08:01	HLA-DRB1*08:05	HLA-DQA1*01:02/DQB1*06:10
HLA-A*11:01	HLA-B*15:18	HLA-C*08:02	HLA-DRB1*08:06	HLA-DQA1*01:02/DQB1*06:11
HLA-A*11:02	HLA-B*15:19	HLA-C*08:03	HLA-DRB1*08:07	HLA-DQA1*01:03/DQB1*06:11
HLA-A*11:03	HLA-B*15:21	HLA-C*08:04	HLA-DRB1*08:09	HLA-DQA1*01:02/DQB1*06:14
HLA-A*11:04	HLA-B*15:24	HLA-C*12:02	HLA-DRB1*08:10	
HLA-A*11:06	HLA-B*15:25	HLA-C*12:03	HLA-DRB1*08:11	
HLA-A*11:12	HLA-B*15:27	HLA-C*12:04	HLA-DRB1*08:12	
HLA-A*23:01	HLA-B*15:29	HLA-C*12:05	HLA-DRB1*09:01	
HLA-A*23:03	HLA-B*15:31	HLA-C*14:02	HLA-DRB1*10:01	
HLA-A*23:04	HLA-B*15:32	HLA-C*14:03	HLA-DRB1*11:01	
HLA-A*24:02	HLA-B*15:34	HLA-C*15:02	HLA-DRB1*11:02	
HLA-A*24:03	HLA-B*15:35	HLA-C*15:03	HLA-DRB1*11:03	
HLA-A*24:04	HLA-B*15:38	HLA-C*15:04	HLA-DRB1*11:04	
HLA-A*24:05	HLA-B*15:39	HLA-C*15:05	HLA-DRB1*11:05	
HLA-A*24:06	HLA-B*15:40	HLA-C*15:06	HLA-DRB1*11:06	
HLA-A*24:07	HLA-B*15:58	HLA-C*15:07	HLA-DRB1*11:08	
HLA-A*24:08	HLA-B*16:01	HLA-C*15:08	HLA-DRB1*11:09	
HLA-A*24:10	HLA-B*18:02	HLA-C*15:13	HLA-DRB1*11:10	
HLA-A*24:13	HLA-B*18:03	HLA-C*16:01	HLA-DRB1*11:11	
HLA-A*24:20	HLA-B*18:05	HLA-C*16:02	HLA-DRB1*11:12	
HLA-A*24:21	HLA-B*18:07	HLA-C*16:04	HLA-DRB1*11:14	
HLA-A*24:23	HLA-B*27:02	HLA-C*17:01	HLA-DRB1*11:15	
HLA-A*25:01	HLA-B*27:03	HLA-C*17:03	HLA-DRB1*11:19	
HLA-A*25:02	HLA-B*27:04	HLA-C*18:01	HLA-DRB1*11:28	
HLA-A*26:01	HLA-B*27:05	HLA-C*18:02	HLA-DRB1*12:01	
HLA-A*26:02	HLA-B*27:06		HLA-DRB1*12:02	
HLA-A*26:03	HLA-B*27:07		HLA-DRB1*12:03	
HLA-A*26:05	HLA-B*27:08		HLA-DRB1*13:01	
HLA-A*26:08	HLA-B*27:09		HLA-DRB1*13:02	
HLA-A*26:12	HLA-B*27:12		HLA-DRB1*13:03	
HLA-A*26:18	HLA-B*27:14		HLA-DRB1*13:04	
HLA-A*29:01	HLA-B*35:01		HLA-DRB1*13:05	
HLA-A*29:02	HLA-B*35:02		HLA-DRB1*13:06	
HLA-A*30:01	HLA-B*35:03		HLA-DRB1*13:07	
HLA-A*30:02	HLA-B*35:04		HLA-DRB1*13:08	
HLA-A*30:04	HLA-B*35:05		HLA-DRB1*13:10	
HLA-A*30:08	HLA-B*35:06		HLA-DRB1*13:11	
HLA-A*31:01	HLA-B*35:08		HLA-DRB1*13:12	
HLA-A*31:02	HLA-B*35:09		HLA-DRB1*13:22	
HLA-A*31:04	HLA-B*35:10		HLA-DRB1*14:01	
HLA-A*31:08	HLA-B*35:11		HLA-DRB1*14:02	
HLA-A*32:01	HLA-B*35:12		HLA-DRB1*14:03	
HLA-A*32:02	HLA-B*35:17		HLA-DRB1*14:04	
HLA-A*32:03	HLA-B*35:19		HLA-DRB1*14:05	
HLA-A*33:01	HLA-B*35:20		HLA-DRB1*14:06	
HLA-A*33:03	HLA-B*35:21		HLA-DRB1*14:07	
HLA-A*34:01	HLA-B*35:32		HLA-DRB1*14:08	
HLA-A*34:02	HLA-B*35:43		HLA-DRB1*14:09	
HLA-A*36:01	HLA-B*37:01		HLA-DRB1*14:10	
HLA-A*43:01	HLA-B*38:01		HLA-DRB1*14:12	
HLA-A*46:01	HLA-B*38:02		HLA-DRB1*14:13	
HLA-A*46:02	HLA-B*39:01		HLA-DRB1*14:14	
HLA-A*46:03	HLA-B*39:02		HLA-DRB1*14:18	
HLA-A*46:04	HLA-B*39:03		HLA-DRB1*14:54	
HLA-A*46:05	HLA-B*39:04		HLA-DRB1*15:01	
HLA-A*46:06	HLA-B*39:05		HLA-DRB1*15:02	
HLA-A*46:07	HLA-B*39:06		HLA-DRB1*15:03	
HLA-A*46:12	HLA-B*39:07		HLA-DRB1*15:04	
HLA-A*49:01	HLA-B*39:09		HLA-DRB1*15:06	
HLA-A*49:02	HLA-B*39:10		HLA-DRB1*15:11	
HLA-A*49:03	HLA-B*39:15		HLA-DRB1*16:01	
HLA-A*80:01	HLA-B*39:24		HLA-DRB1*16:02	
	HLA-B*40:01		HLA-DRB1*16:03	
	HLA-B*40:02		HLA-DRB1*16:05	
	HLA-B*40:03			
	HLA-B*40:04			
	HLA-B*40:05			
	HLA-B*40:06			
	HLA-B*40:09			
	HLA-B*40:10			
	HLA-B*40:11			
	HLA-B*40:12			
	HLA-B*40:14			
	HLA-B*40:16			
	HLA-B*40:40			
	HLA-B*41:01			
	HLA-B*41:02			
	HLA-B*42:01			
	HLA-B*42:02			
	HLA-B*44:02			
	HLA-B*44:03			
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	HLA-B*44:05			
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	HLA-B*44:07			
	HLA-B*44:15			
	HLA-B*45:01			
	HLA-B*46:01			
	HLA-B*47:01			
	HLA-B*47:03			
	HLA-B*48:01			
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	HLA-B*48:04			
	HLA-B*49:01			
	HLA-B*50:01			
	HLA-B*50:02			
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	HLA-B*57:03			
	HLA-B*58:01			
	HLA-B*58:02			
	HLA-B*59:01			
	HLA-B*67:01			
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	HLA-B*78:01			
	HLA-B*78:02			
	HLA-B*81:01			
	HLA-B*82:01			
	HLA-B*82:02			