

Supplementary Information S03

NGS-454 Assigned sequence numbers with corresponding alleles

For each locus, each line corresponds to a unique sequence, the number of which is given by "Sequence Number".

Not all sequences identified are represented here because some were found to be artefacts during the analysis and thus removed from the dataset, e.g. sequence numbers 1,3,7,10 for HLA-DRB1 are missing.

"Number of alleles" is the number of ambiguities reported for this sequence, and "Corresponding alleles" is the list of all possible allele ambiguities (according to IPD-IMGT/HLA database ver 3.25.0).

Locus DRB1

Sequence Number	Number of alleles	Corresponding alleles								
2	5	DRB1*07:56	DRB1*07:01:01	DRB1*07:01:18	DRB1*07:33	DRB1*07:34				
4	8	DRB1*03:83	DRB1*03:01:01	DRB1*03:01:08	DRB1*03:01:11	DRB1*03:100:02	DRB1*03:104	DRB1*03:50	DRB1*03:68N	
5	4	DRB3*02:29N	DRB1*14:141	DRB3*02:02:01	DRB3*02:28					
6	1	DRB1*13:03:01								
8	1	DRB1*01:02:01								
9	4	DRB1*04:52	DRB1*04:03:01	DRB1*04:03:03	DRB1*04:181					
13	4	DRB1*13:128	DRB1*13:02:01	DRB1*13:02:08	DRB1*13:109					
17	1	DRB1*11:02:01								
19	8	DRB1*13:190	DRB1*13:01:01	DRB1*13:01:08	DRB1*13:105	DRB1*13:112	DRB1*13:117	DRB1*13:166	DRB1*13:186	
20	3	DRB1*08:59	DRB1*08:04:01	DRB1*08:04:04						
21	1	DRB1*13:04								
23	2	DRB1*10:01:04	DRB1*10:01:01							
26	3	DRB1*04:05:04	DRB1*04:05:01	DRB1*04:05:03						
27	7	DRB1*11:97	DRB1*11:01:01	DRB1*11:01:02	DRB1*11:01:06	DRB1*11:01:08	DRB1*11:01:21	DRB1*11:100		
34	1	DRB1*08:06								
35	3	DRB1*16:35	DRB1*16:02:01	DRB1*16:22						
37	4	DRB1*12:17	DRB1*12:01:01	DRB1*12:06	DRB1*12:10					
38	3	DRB1*09:21	DRB1*09:01:02	DRB1*09:09						
39	8	DRB1*14:54:01	DRB1*14:01:01	DRB1*14:01:04	DRB1*14:113	DRB1*14:114	DRB1*14:125	DRB1*14:142	DRB1*14:157	
49	8	DRB1*01:71	DRB1*01:01:01	DRB1*01:01:05	DRB1*01:01:25	DRB1*01:01:29	DRB1*01:50	DRB1*01:63	DRB1*01:67	
53	1	DRB1*11:02:01								
54	8	DRB1*13:190	DRB1*13:01:01	DRB1*13:01:08	DRB1*13:105	DRB1*13:112	DRB1*13:117	DRB1*13:166	DRB1*13:186	
57	1	DRB1*03:02:01								
58	7	DRB1*11:97	DRB1*11:01:01	DRB1*11:01:02	DRB1*11:01:06	DRB1*11:01:08	DRB1*11:01:21	DRB1*11:100		
59	1	DRB1*03:02:01								
60	1	DRB1*08:06								

Locus DQA1

Sequence Number	Number of alleles	Corresponding alleles								
3	14	DQA1*05:11	DQA1*05:01:01:01	DQA1*05:01:01:02	DQA1*05:01:01:03	DQA1*05:03	DQA1*05:05:01:01	DQA1*05:05:01:02	DQA1*05:05:01:03	
4	8	DQA1*05:05:01:04	DQA1*05:05:01:05	DQA1*05:06	DQA1*05:07	DQA1*05:08	DQA1*05:09			
5	8	DQA1*01:11	DQA1*01:02:01:01	DQA1*01:02:01:02	DQA1*01:02:01:03	DQA1*01:02:01:04	DQA1*01:02:02	DQA1*01:02:03	DQA1*01:02:04	
6	4	DQA1*04:02	DQA1*04:01:01	DQA1*04:01:02:01	DQA1*04:01:02:02					
7	12	DQA1*01:07Q	DQA1*01:01:01:01	DQA1*01:01:01:02	DQA1*01:01:01:03	DQA1*01:01:02	DQA1*01:04:01:01	DQA1*01:04:01:02	DQA1*01:04:01:03	
8	6	DQA1*03:03:02	DQA1*03:01:01	DQA1*03:02	DQA1*03:03:01:01	DQA1*03:03:01:02	DQA1*03:03:01:03			
9	7	DQA1*01:10	DQA1*01:03:01:01	DQA1*01:03:01:02	DQA1*01:03:01:03	DQA1*01:03:01:04	DQA1*01:03:01:05	DQA1*01:03:01:06		
11	12	DQA1*01:07Q	DQA1*01:01:01:01	DQA1*01:01:01:02	DQA1*01:01:01:03	DQA1*01:01:02	DQA1*01:04:01:01	DQA1*01:04:01:02	DQA1*01:04:01:03	
		DQA1*01:04:01:04	DQA1*01:04:02	DQA1*01:05:01	DQA1*01:05:02					

Locus DQB1

Sequence Number	Number of alleles	Corresponding alleles								
1	16	DQB1*02:02:01	DQB1*02:01:01	DQB1*02:01:08	DQB1*02:01:10	DQB1*02:02:02	DQB1*02:04	DQB1*02:06	DQB1*02:09	
2	35	DQB1*02:10	DQB1*02:12	DQB1*02:20N	DQB1*02:29	DQB1*02:34	DQB1*02:48	DQB1*02:59	DQB1*02:61	
		DQB1*03:01:01	DQB1*03:01:04	DQB1*03:01:05	DQB1*03:01:09	DQB1*03:01:10	DQB1*03:01:11	DQB1*03:01:12	DQB1*03:01:20	
		DQB1*03:01:26	DQB1*03:09	DQB1*03:115	DQB1*03:116	DQB1*03:120	DQB1*03:127	DQB1*03:150	DQB1*03:157	
		DQB1*03:158	DQB1*03:164	DQB1*03:165	DQB1*03:169	DQB1*03:182	DQB1*03:19	DQB1*03:191	DQB1*03:21	
		DQB1*03:22	DQB1*03:24	DQB1*03:29	DQB1*03:35	DQB1*03:42	DQB1*03:49	DQB1*03:50	DQB1*03:51	
		DQB1*03:52	DQB1*03:84N	DQB1*03:94						
4	8	DQB1*03:02:01	DQB1*03:02:09	DQB1*03:02:12	DQB1*03:02:17	DQB1*03:106	DQB1*03:190	DQB1*03:32	DQB1*03:85	
5	9	DQB1*05:01:01	DQB1*05:18	DQB1*05:27	DQB1*05:31	DQB1*05:32	DQB1*05:45	DQB1*05:62	DQB1*05:74	
		DQB1*05:84								
6	17	DQB1*05:102	DQB1*05:02:01	DQB1*05:02:03	DQB1*05:02:07	DQB1*05:02:11	DQB1*05:14	DQB1*05:17	DQB1*05:35	
		DQB1*05:36	DQB1*05:37	DQB1*05:46	DQB1*05:47	DQB1*05:57	DQB1*05:79	DQB1*05:83	DQB1*05:87Q	
		DQB1*05:90N								
7	18	DQB1*06:02:01	DQB1*06:02:04	DQB1*06:02:12	DQB1*06:02:23	DQB1*06:109	DQB1*06:111:01	DQB1*06:111	DQB1*06:112N	
		DQB1*06:115	DQB1*06:116	DQB1*06:117	DQB1*06:127	DQB1*06:131	DQB1*06:175	DQB1*06:176	DQB1*06:47	
		DQB1*06:72	DQB1*06:84							
8	3	DQB1*06:09:01	DQB1*06:22:02	DQB1*06:88						
9	4	DQB1*04:23	DQB1*04:02:01	DQB1*04:04	DQB1*04:13					
10	5	DQB1*06:03:01	DQB1*06:110	DQB1*06:14:01	DQB1*06:41	DQB1*06:44				
11	8	DQB1*06:86	DQB1*06:04:01	DQB1*06:34	DQB1*06:36	DQB1*06:38	DQB1*06:39	DQB1*06:52	DQB1*06:69	
13	12	DQB1*05:03:01	DQB1*05:03:03	DQB1*05:03:04	DQB1*05:03:09	DQB1*05:08	DQB1*05:10	DQB1*05:38	DQB1*05:41N	
		DQB1*05:42	DQB1*05:56	DQB1*05:78	DQB1*05:96					

Locus DPB1

Sequence Number	Number of alleles	Corresponding alleles			
1	4	DPB1*460:01	DPB1*168:01	DPB1*17:01	DPB1*131:01
3	3	DPB1*463:01	DPB1*105:01	DPB1*04:02:01	
4	7	DPB1*459:01	DPB1*415:01	DPB1*350:01	DPB1*126:01
5	3	DPB1*133:01	DPB1*13:01:01	DPB1*107:01	
12	5	DPB1*351:01	DPB1*124:01	DPB1*03:01:08	DPB1*104:01
13	6	DPB1*461:01	DPB1*416:01	DPB1*414:01	DPB1*352:01
15	1	DPB1*15:01:01			
16	1	DPB1*40:01			
19	3	DPB1*462:01	DPB1*417:01	DPB1*01:01:01	
21	1	DPB1*10:01			
27	1	DPB1*11:01:01			
47	2	DPB1*162:01	DPB1*01:01:02		
48	1	DPB1*39:01			
74	1	DPB1*85:01			