

SCHEME 4A2 - SEQUENCES IDENTICAL
 over exons 2 and 3 for HLA Class I and exon 2 for HLA Class II
 please refer to - <http://www.ebi.ac.uk/imgt/hla/>
 Release 3.17.0.1
SAMPLES 4A2 06-10/2014

Sample 4A2 06/14
Class I

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
A*01:01	A*01:04N	A*01:22N	A*01:32	A*01:37	A*01:45	A*01:56N	A*01:81	A*01:87N	A*01:103	A*01:107
	A*01:109	A*01:132	A*01:141	A*01:142	A*01:155					
A*03:01	A*03:20	A*03:21N	A*03:26	A*03:37	A*03:45	A*03:78	A*03:112	A*03:118	A*03:129N	A*03:132
	A*03:134	A*03:162N	A*03:182							
B*07:02	B*07:44	B*07:49N	B*07:58	B*07:59	B*07:61	B*07:120	B*07:128	B*07:129	B*07:130	B*07:156
	B*07:161N	B*07:169								
B*08:01	B*08:19N	B*08:109								
C*07:01	C*07:06	C*07:19	C*07:52	C*07:153	C*07:166	C*07:337	C*07:343			
C*07:02	C*07:50	C*07:66	C*07:74	C*07:159	C*07:160	C*07:167	C*07:245	C*07:308	C*07:348	C*07:349
	C*07:350N	C*07:359								

Class II

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
DRB1*03:01										
DRB1*										
DRB3*01:02										
DQA1*01:02	DQA1*01:08	DQA1*01:09	DQA1*01:11							
DQA1*05:01	DQA1*05:03	DQA1*05:05	DQA1*05:06	DQA1*05:07	DQA1*05:08	DQA1*05:09	DQA1*05:11			
DQB1*02:01	DQB1*02:02	DQB1*02:04	DQB1*02:06	DQB1*02:09	DQB1*02:10					
DQB1*06:02	DQB1*06:47	DQB1*06:84	DQB1*06:109	DQB1*06:111	DQB1*06:116	DQB1*06:117	DQB1*06:127			
DPA1*01:03										
DPA1*02:01										
DPB1*01:01	DPB1*162:01									
DPB1*04:01	DPB1*126:01	DPB1*350:01								

Sample 4A2 07/14
Class I

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
A*02:01	A*02:09	A*02:43N	A*02:66	A*02:75	A*02:83N	A*02:89	A*02:97:01	A*02:97:02	A*02:132	A*02:134
	A*02:140	A*02:241	A*02:252	A*02:256	A*02:266	A*02:291	A*02:294	A*02:305N	A*02:327	A*02:329
	A*02:369N	A*02:377	A*02:387	A*02:411	A*02:446	A*02:455	A*02:469	A*02:481	A*02:538	
A*11:01	A*11:21N	A*11:89N	A*11:86	A*11:100	A*11:102	A*11:108	A*11:120	A*11:124	A*11:126	A*11:129
	A*11:142	A*11:154	A*11:163	A*11:171	A*11:172	A*11:173	A*11:174	A*11:193	A*11:194	
B*40:01	B*40:55	B*40:141	B*40:150	B*40:151	B*40:179	B*40:221	B*40:236	B*40:241	B*40:247	B*40:264
	B*40:272	B*40:278								
B*40:02	B*40:56	B*40:97	B*40:144N	B*40:176						
C*03:02	C*03:29	C*03:69	C*03:70	C*03:83						
C*03:04	C*03:100	C*03:101	C*03:105	C*03:106	C*03:211:01	C*03:211:02	C*03:212	C*03:213	C*03:218	C*03:219
	C*03:236	C*03:252								

Class II

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
DRB1*13:01	DRB1*13:17									
DRB1*13:02										
DRB3*02:02	DRB3*02:28	DRB3*02:29N								
DRB3*03:01										
DQA1*01:02	DQA1*01:08	DQA1*01:09	DQA1*01:11							
DQA1*01:03										
DQB1*06:03	DQB1*06:41	DQB1*06:44	DQB1*06:110							
DQB1*06:04	DQB1*06:34	DQB1*06:36	DQB1*06:38	DQB1*06:39	DQB1*06:52	DQB1*06:86				
DPA1*01:03										
DPA1*										
DPB1*03:01	DPB1*104:01	DPB1*124:01	DPB1*351:01							
DPB1*04:02	DPB1*105:01									

Sample 4A2 08/14
Class I

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
A*01:01	A*01:04N	A*01:22N	A*01:32	A*01:37	A*01:45	A*01:56N	A*01:81	A*01:87N	A*01:103	A*01:107
	A*01:109	A*01:132	A*01:141	A*01:142	A*01:155					
A*24:02	A*24:09N	A*24:11N	A*24:40N	A*24:76	A*24:79	A*24:83N	A*24:144	A*24:150	A*24:153	A*24:154
	A*24:155N	A*24:163N	A*24:183N	A*24:231	A*24:249	A*24:250	A*24:251	A*24:263	A*24:264	A*24:265
	A*24:266	A*24:267	A*24:268	A*24:269	A*24:270	A*24:271				
B*08:01	B*08:19N	B*08:109								
B*27:05	B*27:13									
C*02:02	C*02:29	C*02:69	C*02:70	C*02:83						
C*07:01	C*07:06	C*07:18	C*07:52	C*07:153	C*07:166	C*07:337	C*07:343			

Class II

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
DRB1*03:01										
DRB1*04:04										
DRB3*01:01										
DRB4*01:03	DRB4*01:01	DRB4*01:06								
DQA1*03:01	DQA1*03:02	DQA1*03:03								
DQA1*05:01	DQA1*05:03	DQA1*05:05	DQA1*05:06	DQA1*05:07	DQA1*05:08	DQA1*05:09	DQA1*05:11			
DQB1*02:01	DQB1*02:02	DQB1*02:04	DQB1*02:06	DQB1*02:09	DQB1*02:10					
DQB1*03:02	DQB1*03:32	DQB1*03:85								
DPA1*01:03										
DPA1*02:01	DPB1*162:01									
DPB1*04:02	DPB1*105:01									

Sample 4A2 09/14
Class I

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
A*03:01	A*03:20	A*03:21N	A*03:26	A*03:37	A*03:45	A*03:78	A*03:112	A*03:118	A*03:129N	A*03:132
	A*03:134	A*03:162N	A*03:182							
A*25:01	A*25:07									
B*15:01	B*15:102	B*15:104	B*15:140	B*15:146	B*15:201	B*15:227	B*15:228	B*15:247	B*15:320	B*15:321Q
B*										
C*03:03	C*03:20N	C*03:62	C*03:171	C*03:205	C*03:206	C*03:207	C*03:227	C*03:237		
C*03:04	C*03:100	C*03:101	C*03:105	C*03:106	C*03:211:01	C*03:211:02	C*03:212	C*03:213	C*03:218	C*03:219
	C*03:236	C*03:252								

Class II

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
DRB1*04:01										
DRB1*13:01	DRB1*13:17									
DRB3*01:01										
DRB4*01:03	DRB4*01:01	DRB4*01:06								
DQA1*01:03										
DQA1*03:01	DQA1*03:02	DQA1*03:03								
DQB1*03:02	DQB1*03:32	DQB1*03:85								
DQB1*06:03	DQB1*06:41	DQB1*06:44	DQB1*06:110							
DPA1*01:03										
DPA1*										
DPB1*02:01	DPB1*141:01	DPB1*352:01								
DPB1*04:01	DPB1*126:01	DPB1*350:01								

Sample 4A2 10/14
Class I

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
A*03:01	A*03:20	A*03:21N	A*03:26	A*03:37	A*03:45	A*03:78	A*03:112	A*03:118	A*03:129N	A*03:132
	A*03:134	A*03:162N	A*03:182							
A*26:01	A*26:24	A*26:26	A*26:82	A*26:82	A*26:98	A*26:99				
B*07:02	B*07:44	B*07:49N	B*07:58	B*07:59	B*07:61	B*07:120	B*07:128	B*07:129	B*07:130	B*07:156
	B*07:161N	B*07:169								
B*38:01										
C*07:02	C*07:50	C*07:66	C*07:74	C*07:159	C*07:160	C*07:167	C*07:245	C*07:308	C*07:348	C*07:349
	C*07:350N	C*07:359								
C*12:03	C*12:23	C*12:109	C*12:110	C*12:111	C*12:125					

Class II

Allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele	Alternative allele
DRB1*07:01	DRB1*07:34									
DRB1*16:01										
DRB4*01:03	DRB4*01:03	DRB4*01:06								
DRB5*02:02	DRB5*02:06									
DQA1*01:02	DQA1*01:08	DQA1*01:09	DQA1*01:11							
DQA1*02:01										
DQB1*02:02	DQB1*02:01	DQB1*02:04	DQB1*02:06	DQB1*02:09	DQB1*02:10					

