

INTERPRETATION TABLE

HLA-A low resolution SSP typing

Amplification patterns of the A*01:01 to A*80:02 alleles

		Well ^{6,8}															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length of spec.		120	215	235	190	160	135	175	165	75	80	80	125	175	80	90	240
PCR product(s)		145	175			535	195	205	200		240	175	185	225	115	135	370
			255				205					500			200	205	395
			365												240		
			415														
Length of int. pos. control ¹		800	800	1070	800	800	800	1070	800	800	800	1070	800	1070	1070	1070	1070
5'-primer(s) ²		98	48	363	98	144	176	98	98	261	98	301	103	98	98	203	41
		5'-CTT ^{3'}	5'-gCT ^{3'}	5'-ATA ^{3'}	5'-CTA ^{3'}	5'-gCC ^{3'}	5'-gCA ^{3'}	5'-CTC ^{3'}	5'-CTA ^{3'}	5'-AAC ^{3'}	5'-CTA ^{3'}	5'-Cgg ^{3'}	5'-CCT ^{3'}	5'-CTT ^{3'}	5'-CAC ^{3'}	5'-gAA ^{3'}	5'-CTT ^{3'}
		103	78		413	317	368	368	102	266	261	302	415	423	219	362	355
		5'-CCT ^{3'}	5'-TCT ^{3'}		5'-CCg ^{3'}	5'-gCT ^{3'}	5'-gTT ^{3'}	5'-gTT ^{3'}	5'-ACA ^{3'}	5'-ACg ^{3'}	5'-AAC ^{3'}	5'-ggA ^{3'}	5'-ggT ^{3'}	5'-gCT ^{3'}	5'-gCA ^{3'}	5'-ggT ^{3'}	5'-CCg ^{3'}
		123	106						413			385	423		238	363	
		5'-AgT ^{3'}	5'-CCA ^{3'}						5'-CCg ^{3'}			5'-ggC ^{3'}	5'-gCT ^{3'}		5'-AgA ^{3'}	5'-ATA ^{3'}	
															355	363	
															5'-CCg ^{3'}	5'-ATA ^{3'}	
																369	
																5'-TAC ^{3'}	
3'-primer(s) ³		203	240	555	256	265	270	259	259	302	299	341	257	282	257	299	238
		5'-TCT ^{3'}	5'-ggA ^{3'}	5'-gCA ^{3'}	5'-CTg ^{3'}	5'-CCC ^{3'}	5'-ACA ^{3'}	5'-gTT ^{3'}	5'-gTT ^{3'}	5'-ggC ^{3'}	5'-TCg ^{3'}	5'-CgT ^{3'}	5'-gCA ^{3'}	5'-gAC ^{3'}	5'-gCA ^{3'}	5'-CCA ^{3'}	5'-CCT ^{3'}
			292	555	559	570	521	502	259			521	506	282	299	411	238
			5'-gTg ^{3'}	5'-CCA ^{3'}	5'-CCg ^{3'}	5'-CCg ^{3'}	5'-ggg ^{3'}	5'-CTT ^{3'}	5'-gTT ^{3'}			5'-ggg ^{3'}	5'-TgT ^{3'}	5'-gAC ^{3'}	5'-TCg ^{3'}	5'-TCA ^{3'}	5'-CCT ^{3'}
							534	539	538				559	559	418	526	243
							5'-CgT ^{3'}	5'-TCT ^{3'}	5'-CCA ^{3'}				5'-CTC ^{3'}	5'-CCC ^{3'}	5'-gTC ^{3'}	5'-CCA ^{3'}	5'-TCA ^{3'}
													559	559	555		265
												5'-CgT ^{3'}	5'-CCg ^{3'}	5'-CCA ^{3'}			5'-CCC ^{3'}
																	555
																	5'-CCA ^{3'}
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

*02:48, 02:129	-																	
*02:55	-		2					8										
*02:78	A2		w		4													
*02:135	-		2											13				
*02:156, 02:338	-		2															
*02:169	-		2		4													
*02:237	-		2											14			16	
*02:243	-		2															
*02:309	-		2									12		14				
*03:01:01:01-03:01:05, 03:01:07-03:01:13, 03:01:15- 03:01:18, 03:01:20-03:01:22, 03:01:24-03:01:29, 03:01:31- 03:01:34, 03:01:36-03:04:03, 03:06-03:07, 03:11N, 03:13- 03:17:02, 03:19-03:23:02, 03:25-03:28, 03:31, 03:33, 03:35, 03:37-03:39, 03:44- 03:49, 03:51-03:53, 03:55- 03:56, 03:58, 03:60-03:61, 03:67-03:71, 03:73-03:74, 03:76-03:81, 03:83-03:87, 03:90-03:94, 03:96-03:97, 03:99-03:104, 03:106, 03:109- 03:110, 03:112-03:121, 03:123-03:126, 03:128- 03:134, 03:136-03:139, 03:141, 03:143-03:151, 03:154-03:161N	A3, Null, -				3									13				
*03:01:06, 03:01:14, 03:54, 03:64-03:66, 03:127, 03:140, 03:153	A3, -				3									13				
*03:01:19	-				3							12		13				
*03:01:23, 03:57, 03:59, 03:72, 03:111, 03:142	-				3													
*03:01:30, 03:01:35, 03:05:01- 03:05:02, 03:10, 03:40, 03:42, 03:98, 03:105, 03:122	A3, -													13				
*03:08, 03:32, 03:36N, 03:89, 03:107	Null, -				3													
*03:09	-				3									13				
*03:12	-				3		4											
*03:18, 03:135	-						4							13				
*03:24	A3				3				8					13				
*03:29, 03:34, 03:62	-				3									13				
*03:30	-				3		5							13				
*03:41	-				3													
*03:43, 03:82	-				3									13			15	
Well No.			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Well No.			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HLA-A allele ⁴	ser ⁵																	
*03:50	-				3					8					13			

*24:82	-				5		7										
*24:89, 24:129	-						7										
*24:92	-				5												
*25:01:01-25:04, 25:07-25:12N, 25:14-25:16, 25:19-25:22	A25, Null, -							8	9					13			
*25:05	-							8	9			12	13				
*25:06	-							8	9			12					
*25:13	-							8	9					13			
*25:17	-								9					13			
*25:18	-							8	9					13			
*26:01:01-26:01:20, 26:01:22-26:01:27, 26:08, 26:10-26:15, 26:17-26:18, 26:20, 26:23-26:28, 26:31-26:33, 26:35-26:43:02, 26:45-26:48, 26:50-26:53, 26:55-26:63, 26:66-26:71N, 26:74-26:77, 26:79-26:80	A26, A10, Null, -							8		10				13			
*26:01:21, 26:04, 26:34, 26:73	A26, -							8		10							
*26:02, 26:29, 26:49	A26, -							8		10				w			
*26:03:01-26:03:02, 26:06, 26:21	A26, -							8			11			13			
*26:05	A26							8						13			
*26:07:01-26:07:02, 26:64	A26, -									10				13			
*26:09	A26							8		10		12					
*26:16	-						7			10				13			
*26:19	-		4							10				13	14		
*26:22	A26							8		10				13	14		
*26:30	-							8						13			
*26:54	-							8		10		12		13			
*26:65	-							8		10				13			
*26:72	-		4							10				13			
*26:78	-							8			11						
*29:01:01:01-29:06, 29:08N-29:12, 29:15-29:18, 29:21-29:27, 29:29, 29:31-29:33, 29:35-29:38, 29:40-29:45	A29, Null, -													14			
*29:07	-						6							14			
*29:13	-													14			
*29:14	-													14	16		
*29:19	-													14			
*29:20, 29:34	-													14			
*29:28	-							8						14			
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HLA-A allele ⁴	ser ⁵																
*29:30	-													14			
*29:39	-													14			

*74:06	A74																
*74:07	A74																
*74:13	-												13				
*80:01:01:01-80:01:01:02	A80, -					6											
*80:02	-					6					11						
<i>B*07:81, B*08:52, B*18:67, B*38:41, B*53:05, B*53:16</i>	-									9							
<i>B*18:27</i>	-					6											
<i>C*03:174, C*08:69</i>	-				4												
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

INTERPRETATION TABLE																	
HLA-A low resolution SSP typing																	
Amplification patterns of the A*01:01 to A*80:02 alleles																	
Well ^{6,8}																	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
140	200	160	220	240	85	70	360	190	195	205	100	260	180	110	Neg. Control	Length of spec. PCR product(s)	
180		200	245	375	240	160		400	225					195			
						240											
						495											
1070	1070	800	800	800	800	800	1070	1070	800	1070	1070	800	1070	1070	Negative Control	Length of int. pos. control ¹	
180	98	180	78	28	78	176	341	41	103	363	282	74	418	270		5'-primer(s) ²	
5'-TTT ^{3'}	5'-CAC ^{3'}	5'-TTT ^{3'}	5'-TCT ^{3'}	5'-TCg ^{3'}	5'-TCT ^{3'}	5'-gCA ^{3'}	5'-ggC ^{3'}	5'-CTT ^{3'}	5'-CCT ^{3'}	5'-ATA ^{3'}	5'-Cag ^{3'}	5'-C ^{3'}	5'-AgA ^{3'}	5'-AAA ^{3'}			
203			106	261	527	261		123	363		282	78	423	363			
5'-gAA ^{3'}			5'-CCA ^{3'}	5'-AAC ^{3'}	5'-TgC ^{3'}	5'-AAC ^{3'}		5'-AgT ^{3'}	5'-ATA ^{3'}		5'-Cag ^{3'}	5'-TCC ^{3'}	5'-gCT ^{3'}	5'-ATA ^{3'}			
418			2nd I			341											
5'-AgC ^{3'}			5'-CCT ^{3'}			5'-ggA ^{3'}											
						355											
						5'-CCC ^{3'}											
290	256	299	265	97	265	292	418	270	257	527	341	292	559	341		3'-primer(s) ³	
5'-CAA ^{3'}	5'-CCC ^{3'}	5'-CCA ^{3'}	5'-CCC ^{3'}	5'-ggT ^{3'}	5'-CCC ^{3'}	5'-gTg ^{3'}	5'-gTC ^{3'}	5'-ACT ^{3'}	5'-gCA ^{3'}	5'-CCT ^{3'}	5'-Cgg ^{3'}	5'-gTg ^{3'}	5'-CCg ^{3'}	5'-CgT ^{3'}			
317	256	299	282	355	282	292		270	545	527			559	517			
5'-ggA ^{3'}	5'-CTC ^{3'}	5'-CCA ^{3'}	5'-gAC ^{3'}	5'-gAC ^{3'}	5'-gAC ^{3'}	5'-gTT ^{3'}		5'-ACA ^{3'}	5'-AgA ^{3'}	5'-CCT ^{3'}			5'-CCg ^{3'}	5'-CgT ^{3'}			
555	259	341	282		282	299				527							
5'-CCA ^{3'}	5'-gTT ^{3'}	5'-CgT ^{3'}	5'-gAC ^{3'}		5'-gAC ^{3'}	5'-TCT ^{3'}				5'-CCA ^{3'}							
			502		570	555											
			5'-CTT ^{3'}		5'-CAC ^{3'}	5'-CCA ^{3'}											
			506														
			5'-TgT ^{3'}														
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		Well No.	
																ser ⁵	HLA-A allele ⁴	
									26							Negative Control	*01:01:01:01:01:01:22, 01:01:24-01:01:31, 01:01:33- 01:01:47, 01:01:49-01:02, 01:04N, 01:07, 01:09-01:11N, 01:16N-01:18N, 01:22N- 01:27N, 01:29, 01:31N-01:33, 01:35-01:42, 01:44-01:50, 01:52N, 01:54-01:62, 01:64, 01:67-01:68, 01:70-01:72, 01:74-01:78, 01:80-01:83:01, 01:84-01:94, 01:96-01:97, 01:100-01:122	
									26								A1, -	*01:01:23, 01:01:48, 01:08, 01:30, 01:79, 01:99
									26								-	*01:01:32, 01:69:01-01:69:02
																	A1, Null, -	*01:03, 01:06, 01:20, 01:53N, 01:63, 01:65-01:66, 01:73, 01:98
										27							A1, -	*01:12, 01:19
									26								-	*01:13
																	Null, -	*01:14-01:15N
									26	27							-	*01:21
									26								-	*01:28
									26								-	*01:43
									26								-	*01:51
									26								-	*01:83:02
17									26								-	*01:95
																	A2, Low A2,, A203, A210, A2, 19, Null, -	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:01:81, 02:01:83-02:16, 02:18-02:22:02, 02:24:01- 02:33, 02:36-02:45, 02:47, 02:49-02:54, 02:57-02:61, 02:63-02:69, 02:71-02:77, 02:79:01-02:97:02, 02:99, 02:101:01-02:102, 02:104- 02:128, 02:130-02:134, 02:136-02:155, 02:157- 02:168, 02:170-02:236, 02:238-02:242, 02:244- 02:308, 02:310-02:337, 02:339-02:392
																		A2
			20		22						28					A2, -		*02:34-02:35:01, 02:35:03, 02:56:01-02:56:02, 02:62, 02:103
			20		22						28					A2		*02:35:02
			20		22											A2		*02:46, 02:70
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		Well No.	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		Well No.	
																ser ⁵	HLA-A allele ⁴	

			20		22											-	*02:48, 02:129
				21		23										-	*02:55
			20		22						28					A2	*02:78
							24									-	*02:135
										27						-	*02:156, 02:338
																-	*02:169
																-	*02:237
	18			21												-	*02:243
							24									-	*02:309
											27	28				A3, Null, -	*03:01:01-03:01:05, 03:01:07-03:01:13, 03:01:15- 03:01:18, 03:01:20-03:01:22, 03:01:24-03:01:29, 03:01:31- 03:01:34, 03:01:36-03:04:03, 03:06-03:07, 03:11N, 03:13- 03:17:02, 03:19-03:23:02, 03:25-03:28, 03:31, 03:33, 03:35, 03:37-03:39, 03:44- 03:49, 03:51-03:53, 03:55- 03:56, 03:58, 03:60-03:61, 03:67-03:71, 03:73-03:74, 03:76-03:81, 03:83-03:87, 03:90-03:94, 03:96-03:97, 03:99-03:104, 03:106, 03:109 03:110, 03:112-03:121, 03:123-03:126, 03:128- 03:134, 03:136-03:139, 03:141, 03:143-03:151, 03:154-03:161N
												28				A3, -	*03:01:06, 03:01:14, 03:54, 03:64-03:66, 03:127, 03:140, 03:153
							24				27	28				-	*03:01:19
											27	28				-	*03:01:23, 03:57, 03:59, 03:72, 03:111, 03:142
											27	28				A3, -	*03:01:30, 03:01:35, 03:05:01 03:05:02, 03:10, 03:40, 03:42, 03:98, 03:105, 03:122
											27					Null, -	*03:08, 03:32, 03:36N, 03:89, 03:107
											27	28	29			-	*03:09
											27	28				-	*03:12
									26		28					-	*03:18, 03:135
										27	28					A3	*03:24
										27						-	*03:29, 03:34, 03:62
										27	28					-	*03:30
						23				27						-	*03:41
17										27	28					-	*03:43, 03:82
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		Well No.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		Well No.
																ser ⁵	HLA-A allele ⁴
											28					-	*03:50

Negative Control

						23				27						-	*03:63
						23					28					-	*03:75
						23					27					-	*03:88
												28				-	*03:95
											27		29			-	*03:108
											27					-	*03:152
																A11, Null, -	*11:01:01-11:05, 11:07-11:09, 11:13-11:16, 11:19-11:24:02, 11:26-11:27, 11:29-11:30, 11:32-11:34, 11:36-11:39, 11:41-11:52Q, 11:54-11:59, 11:61-11:93, 11:95-11:111, 11:114-11:129, 11:131-11:132
													29			-	*11:06, 11:18
											26				A11	*11:10	
															-	*11:11	
												28			A11	*11:12	
															-	*11:17, 11:40	
											27				A11, -	*11:25, 11:31, 11:35, 11:60	
											26				-	*11:94, 11:112	
															-	*11:113	
						23									-	*11:130	
															A23, Null, -	*23:01:01-23:12, 23:15-23:55	
													28		-	*23:13	
															A9, -	*23:14:01-23:14:02, 24:71 ⁷	
															A24, Low A24, A240 3, A9, Null, -	*24:02:01:01-24:06, 24:08-24:11N, 24:13:01-24:13:02, 24:17, 24:20-24:23, 24:25-24:43, 24:45N-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:70, 24:72-24:81, 24:83N-24:88, 24:90N-24:91, 24:93, 24:95-24:107, 24:109-24:111, 24:113, 24:115-24:128, 24:130, 24:132N-24:137, 24:139-24:187, 24:189-24:203, 24:205-24:210, 24:212, 24:214, 24:216-24:221	
													28		A24, -	*24:07, 24:108, 24:112, 24:131	
															A24, Null, -	*24:14-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138, 24:188, 24:222N	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		Well No.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		Well No.
																ser ⁵	HLA-A allele ⁴
						23										A24, A3, -	*24:18, 24:204, 24:213
																A9, -	*24:19, 24:44
											28					-	*24:24

Negative Control

18								25									A33, A19, -	*33:01:01-33:01:07, 33:03:01-33:12, 33:14-33:18:02, 33:20-33:21, 33:23, 33:25-33:37, 33:39-33:47, 33:50, 33:52, 33:54-33:64
18								25									-	*33:13, 33:48
18								25									-	*33:19
18			21					25									-	*33:22
18						23		25				29					-	*33:24
18								25		27							-	*33:49
								25									-	*33:51
18								25									-	*33:53
																31	A34, -	*34:01:01-34:01:02, 34:05
										27						31	A34, Null, -	*34:02:01-34:02:03, 34:04, 34:07, 34:10N
										27							-	*34:03
										27							-	*34:06
										27						31	-	*34:08
							24			27	28					31	-	*34:09
				22													A36, -	*36:01, 36:03, 36:05
				22	23												-	*36:02
				22				26									A36	*36:04
								26								30	A43	*43:01
																30	A66, -	*66:01, 66:04-66:08, 66:11, 66:13-66:15, 66:17-66:19
							24				28						A66, -	*66:02, 66:16
							24										A10	*66:03
			21													30	-	*66:09
																30	-	*66:10
							24				28					30	-	*66:12
																30	-	*66:15
			20								28						A68, A28, Null, -	*68:01:01:01-68:02:05, 68:06-68:12, 68:13:02-68:14, 68:16-68:19, 68:21:01-68:28, 68:30, 68:32-68:39, 68:41-68:44, 68:46-68:65, 68:67-68:70, 68:73-68:83, 68:86-68:89, 68:91-68:92, 68:94N-68:96
			20														A68, -	*68:03:01-68:04, 68:31, 68:40, 68:72, 68:85, 68:90, 68:93
			20				23					29					A68, -	*68:05, 68:15, 68:20
			20								28						-	*68:13:01, 68:66
18			20	21							28						-	*68:29
			20								28						-	*68:45
			20								28						-	*68:71
			20								28						-	*68:84
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			Well No.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			Well No.
																	ser ⁵	HLA-A allele ⁴
				21							28						A69	*69:01
	19							25									A74, Null, -	*74:01-74:05, 74:08-74:12N, 74:14N-74:17

Negative Control

		19						25				29			Negative Control	A74	*74:06	
17		19						25								A74	*74:07	
		19						25			28					-	*74:13	
						23										A80, -	*80:01:01:01-80:01:01:02	
																-	*80:02	
																-	<i>B*07:81, B*08:52, B*18:67, B*38:41, B*53:05, B*53:16</i>	
																-	<i>B*18:27</i>	
																-	<i>C*03:174, C*08:69</i>	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		32		Well No.