

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	17	18	19	20	21	22	23	24	
Length of spec.		225	145	120																						
PCR product(s)			415	365	255	210																				
Length of int. pos. control ¹		800	800	1070	800	800	800	1070	800	800	800	1070	800	1070	1070	1070	1070	1070	1070	800	800	800	800	800	800	800
5'-primer(s) ²		98	48	363	98	144	176	98	98	266	257	301	103	98	98	203	41	180	98	180	78	28	78	176		
		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'-ACg ³	5'-Cgg ³	5'-Cgg ³	5'-CCT ³	5'-CTT ³	5'-CAC ³	5'-gAA ³	5'-CTT ³	5'-TTT ³	5'-CAC ³	5'-TTT ³	5'-TCT ³	5'-TCT ³	5'-TCg ³	5'-TCT ³	5'-gCA ³	
		103	78		413	317	368	368	102	266	259	302	423	423	238	362	355	203			106	261	261	261		
		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'-CgA ³	5'-ggA ³	5'-gCT ³	5'-gCT ³	5'-AgA ³	5'-ggT ³	5'-CCg ³	5'-gAA ³	5'-AgC ³		5'-CCA ³	5'-AAC ³	5'-TgC ³	5'-AAC ³		
		363	106						413	266	261	385			355	363		418			2 nd			341		
		5'-ATA ³	5'-CCA ³						5'-CCg ³	5'-Agg ³	5'-AAC ³	5'-ggC ³			5'-CCg ³	5'-ATA ³		5'-AgC ³			5'-CCT ³			5'-CCC ³		
3'-primer(s) ³		203	240	527	256	265	270	259	259	302	299	341	257	282	257	299	238	290	256	299	265	97	265	292		
		5'-TCT ³	5'-ggA ³	5'-CCA 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'-gAC ³	5'-TCg ³	5'-TCA ³	5'-CAA ³	5'-CCC ³	5'-CCA ³	5'-CCC ³	5'-ggT ³	5'-CCC ³	5'-gTg ³		
		545	292	527	559	570	502	502	259			521	506	282	299	411	243	317	256	299	282	355	282	292		
		5'-AgA ³	5'-gTg ³	5'-CCT ³	5'-CCg ³	5'-CCg ³	5'-CTg ³	5'-CTT ³	5'-gTT ³			5'-ggg ³	5'-TgT ³	5'-gAC ³	5'-gAC ³	5'-TCA ³	5'-TCA ³	5'-ggA ³	5'-CTC ³	5'-CCA ³	5'-gAC ³	5'-gAC ³	5'-gTT ³	5'-gTT ³		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-gCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-gCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		
		5'-CCA ³					5'-CAg ³	5'-TCT ³	5'-CCA ³			5'-CTC ³	5'-CTC ³	5'-gTC ³	5'-CCA ³	5'-CCC ³	5'-CCA ³	5'-CCA ³	5'-gTT ³	5'-CgT ³	5'-gAC ³		570	555		
		555					538	539	538			559	559	559	418	526	265	555	259	341	282		299	299		

																				5'-TGT ^{3'}					
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-A allele ⁴	ser ⁵																								
*01:01:01:01-01:01:22, 01:01:24-01:04N, 01:06- 01:07, 01:09-01:11N, 01:16N-01:18N, 01:20, 01:22N-01:27N, 01:29, 01:31N-01:33, 01:35- 01:50, 01:52N-01:78, 01:80-01:82, 01:84-01:94, 01:96-01:98, 01:100- 01:101	A1, Null, -	1			4																				
*01:01:23, 01:08, 01:14- 01:15N, 01:30, 01:79, 01:99	A1, Null, -	1																							
*01:12, 01:19	A1, -	1		3																					
*01:13	A1	1			4							11		13		15									
*01:21	A1	1		3	4																				
*01:28	-	1			4							11				15									
*01:51	-	1			4				8		10														
*01:83	-	1			4						10														
*01:95	-	1			4	5												17							
*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:02:16, 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, 02:136-02:145, 02:147- 02:168, 02:170-02:236, 02:238-02:242, 02:244- 02:308, 02:310-02:323, 02:325-02:326	A2, A19, Low A2, A203, A210, Null, -				2																				
*02:17:01-02:17:02	A2		2					w																	
*02:34-02:35:01, 02:35:03, 02:56:01- 02:56:02, 02:62, 02:103	A2		2											13							20		22		
*02:35:02	A2													13							20		22		
*02:46, 02:70	A2		2																		20		22		
*02:48, 02:129	A2, -																				20		22		
*02:55	A2, A28		2						8														21		23
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Negative Control

HLA-A allele ⁴	ser ⁵																									
*02:78	-	w	4																	20				22		
*02:135	-	2											13													
*02:146	-	2								10																
*02:169	-	2	4																							
*02:237	-	2											14		16											
*02:243	-	2																18					21			
*02:309	-	2										12		14												
*03:01:01-03:01:02, 03:01:04-03:01:18, 03:01:20-03:01:22, 03:01:24-03:07, 03:10- 03:11N, 03:13-03:17, 03:19-03:22:02, 03:23:02, 03:25-03:29, 03:31, 03:33- 03:35, 03:37-03:40, 03:42, 03:44-03:49, 03:51-03:56, 03:58, 03:60-03:62, 03:64- 03:71, 03:73-03:74, 03:76- 03:81, 03:83-03:87, 03:90- 03:94, 03:96-03:106, 03:109-03:110, 03:112- 03:132	A3, Null, -		3																							
*03:01:03, 03:09, 03:23:01	A3, -	w	3																							
*03:01:19	-		3									12	13													
*03:01:23, 03:08, 03:32, 03:36N, 03:57, 03:59, 03:72, 03:107, 03:111	A3, Null, -		3																							
*03:12	A3		3	4																						
*03:18	-	1		4																						
*03:24, 03:50	A3, -		3						8																	
*03:30	A3		3	5																						
*03:41	-		3																					23		
*03:43, 03:82	-		3																							
*03:63	-		3							11				13										23		
*03:75	-													13										23		
*03:88	-		3	4						11														23		
*03:89,03:108	-	w	3																							
*03:95	-													13	14		16									
*11:01:01-11:05, 11:07- 11:09, 11:12-11:17, 11:19- 11:24:02, 11:26-11:27, 11:29-11:59, 11:61-11:93, 11:95-11:106	A11, Null, -			4																						
Well No.			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Well No.			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-A allele ⁴	ser ⁵																									

Negative Control

*11:06, 11:18	A11, -	w	4							11															
*11:10	A11		4				8			11															
*11:11	-		4							11 12															
*11:25, 11:60	A11, -		3 4							11															
*11:94	-	1	4							11															
*23:01:01-23:13, 23:15-23:46	A23, Null, -				5 6																				
*23:14, 24:05, 24:13:02, 24:24 ⁷	A23, A9, A24				5 6 7																				
*24:02:01:01-24:04, 24:06-24:11N, 24:13:01, 24:17, 24:20-24:23, 24:25-24:43, 24:45N-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:81, 24:83N-24:88, 24:90N-24:91, 24:93, 24:95-24:113, 24:115-24:128, 24:130-24:137, 24:139-24:182	A24, Low A24, A2403, A9, Null, -				5		7																		
*24:14-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138	A24, -				5																				
*24:18	A24, A3				5		7																23		
*24:19, 24:44	A9				5		7			11															
*24:28	A9	w			5		7																		
*24:82	-				5		7															21			
*24:89	-	w					7																		
*24:92	-		3		5																				
*24:129	-						7																		
*25:01:01-25:04, 25:07-25:16	A25, Null, -							8	9			13													
*25:05	A25							8	9	12	13											20			
*25:06	A25							8	9	12															
*26:01:01-26:01:20, 26:01:22, 26:08, 26:10-26:15, 26:17-26:18, 26:20, 26:23-26:29, 26:31-26:33, 26:35-26:43:02, 26:45-26:53, 26:55-26:63, 26:65-26:69	A26, A10, Null, -							8		10		13													
*26:01:21, 26:04, 26:34	A26, -							8		10															
*26:02	A26							8		10		w													
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-A allele ⁴	ser ⁵																								
*26:03:01-26:03:02, 26:06, 26:21	A26, -	w						8		11		13											23		

Negative Control

*26:05	A26							8					13										23		
*26:07:01, 26:64	A26, -											10	13												
*26:07:02	A26	w										10	13												
*26:09	A26							8				10	12												
*26:16	A26							7				10	13												
*26:19	-				4								13	14											
*26:22	A26							8				10	13	14								21			
*26:30	A26	w						8					13										23		
*26:54	-							8				10	12	13							20				
*29:01:01-29:06, 29:08N-29:12, 29:15- 29:18, 29:20-29:27, 29:29- 29:31	A29, Null, -													14											
*29:07	A29						6							14											
*29:13	-													14			17								
*29:14	-													14		16									
*29:19	-													14					19						
*29:28	-							8						14											
*30:01:01-30:04:02, 30:06- 30:07, 30:09-30:12, 30:14- 30:15, 30:17-30:20, 30:22- 30:43, 30:45, 30:47-30:54	A30, -, Null														15										
*30:13, 30:16, 30:44, 30:46	A30, -	w													15										
*30:08	A30				4										15										
*30:55	-													13	15										
*31:01:02-31:02, 31:05- 31:07, 31:09-31:28, 31:30- 31:34, 31:36-31:54	A31, Null, -															16									
*31:03	A31											11	12	14	16										
*31:04	A31												12	14	16										
*31:08	A31, A24					5									16										
*31:29	-					6									16										
*31:35	-													15	16	17									
*32:01:01-32:02, 32:06- 32:12, 32:14, 32:16-32:36	A32, Null, -											9				17									
*32:03	A32															17									
*32:04	A32, A3			3								9													
*32:05	A32					5									16	17									
*32:13	A32					5						9				17									
*32:15	A32							8				9				17									
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-A allele ⁴	ser ⁵																								

Negative Control

