

Length of spec.	195	270	190	235	180	195	215	100	85	120	215	235	90	100	100	95	205	235	175	175	100	150	80	295	
PCR product(s)					210	550				280			195		215	205			265	220	240		230		470
HLA-A allele 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	
*11:01:01-11:01:20, 11:01:22-11:01:27	1										11	12		14											
*11:01:21	1										11			14											
*11:02:01-11:02:03, 11:77 ^{13,14}		2									11	12		14											
*11:03	1		3								11	12		14										23	
*11:04	1			4							11			14											
*11:05	1				5						11	12		14											
*11:06	1					6					11	12		14									22		
*11:07	1					6					11	12		14		16									
*11:08	1						7					12		14										23	
*11:09	1							8			11	12		14											
*11:10	1									10	11	12		14											
*11:11	1										11	12	13	14											
*11:12	1										11	12			15										
*11:13, 11:54 ⁵	1										11	12		14		16									
*11:14		2									11	12		14			17								
*11:15:01	1										11	12		14				18							
*11:15:02	1										11	12		14											
*11:16		2									11	12		14					19						
*11:17											11	12								20	21				
*11:18						6					11	12											22		
*11:19											11	12										21			
*11:20	1										11	12		14										23	
*11:21N	1										11	12		14											24
*11:22	1					6					11	12		14											
*11:23	1											12		14					19						
*11:24:01	1											12		14											
*11:24:02	1											12		14	15										
*11:25	1											12		14	15									23	
*11:26	1													14											
*11:27	1			4					9		11			14											
*11:29	1										11	12		14											
*11:30	1										11	12		14											
*11:31	1											12		14	15										
*11:32, 11:51 ⁶	1										11	12		14											
*11:33:01-11:33:02	1		3								11	12		14											
*11:34	1						8				11	12	13	14											
*11:35	1			4										14	15				19						
*11:36	1										11	12		14							20				
*11:37	1										11	12		14									22		
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	
Length of spec.	195	270	190	235	180	195	215	100	85	120	215	235	90	100	100	95	205	235	175	175	100	150	80	295	

PCR product(s)					210	550				280			195		215	205			220	240		230		470
																			265					
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
*11:38		2							9		11	12		14										
*11:39	1								9		11	12		14										
*11:40											11	12								20	21			
*11:41	1										11	12		14										
*11:42	1										11	12		14					19	20				
*11:43	1									10	11	12		14										
*11:44	1						7					12		14										
*11:45											11	12		14										
*11:46	1										11	12		14					19					
*11:47	1										11	12		14				18						
*11:48	1													14										24
*11:49	1										11	12		14										
*11:50Q	1						7							14			17							
*11:52Q	1									10	11	12		14										
*11:55	1										11	12		14										
*11:56	1										11	12		14										
*11:57		2									11	12		14					19					
*11:58, 11:67 ⁷	1										11	12		14										
*11:59	1										11	12		14										
*11:60	1										11	12		14										
*11:61	1										11	12		w										
*11:62, 11:68 ⁸	1										11	12		14										
*11:63, 11:69N ⁹	1										11	12		14										
*11:64, 11:65 ¹⁰	1										11	12		14										
*11:66, 11:72 ¹¹	1										11	12		14										
*11:70	1										11	12		14										
*11:71											11	12		14										
*11:73	1										11	12		14					19					
*11:74	1										11	12		14										
*11:75	1										11	12		14										
*11:76	1										11	12		14										
*11:78N											11	12		14										
*11:79	1										11	12		14										
*11:80	1										11	12		14										
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
Length of spec.	195	270	190	235	180	195	215	100	85	120	215	235	90	100	100	95	205	235	175	175	100	150	80	295
PCR product(s)					210	550				280			195		215	205			265	240		230		470
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

*01:01:01:01-01:01:22, 01:01:24-01:02, 01:09, 01:11N, 01:16N, 01:18N, 01:22N-01:24, 01:27N- 01:40, 01:42, 01:44-01:50, 01:52N-01:55, 01:57N- 01:60, 01:62, 01:64, 01:67- 01:70, 01:74-01:78, 01:80- 01:81						7					12										21				
*01:01:23, 01:08, 01:15N						7																21			
*01:03, 36:03, 74:10																						21			
*01:04N						7						12										21		24	
*01:06												12		15								21			
*01:07, 01:71						7						12													
*01:10						7						12					17					21			
*01:12, 01:19				4							11											21			
*01:13	1					7						12		14											
*01:14				4		7																21			
*01:17						7						12		14											
*01:20, 01:63, 01:66, 01:73																						21			
*01:21						7						12										21			
*01:25											w	12										21			
*01:26						7		9				12										21			
*01:41																						21		24	
*01:43						7						12									20	21			
*01:51						7			10			12										21			
*01:56N						7						12										21			
*01:61			3			7						12										21			
*01:65												12										21			
*01:72, 36:04												12										21			
*01:79						w	7					12										21			
*02:03:01-02:03:03, 02:148, 02:253, 02:258, 02:264, 02:281																								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	
Length of spec.	195	270	190	235	180	195	215	100	85	120	215	235	90	100	100	95	205	235	175	175	100	150	80	295	
PCR product(s)					210	550				280			195		215	205			265	240		230		470	
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	

Length of spec.	195	270	190	235	180	195	215	100	85	120	215	235	90	100	100	95	205	235	175	175	100	150	80	295	
PCR product(s)					210	550				280			195		215	205			265	220	240		230		470
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	
*03:01:01:01-03:01:01:03, 03:01:03-03:01:08, 03:01:10-03:01:22, 03:03N-03:06, 03:09, 03:11N-03:17, 03:19- 03:20, 03:25-03:30, 03:33- 03:35, 03:37-03:39, 03:43- 03:49, 03:51-03:56, 03:58- 03:62, 03:64, 03:67- 03:68N, 03:70-03:72, 03:74, 03:77-03:81, 03:83- 03:86, 03:91N-03:94, 03:96, 03:99-03:104, 03:109-03:110, 03:112	1			4											15										
*03:01:02	1			4											15										
*03:01:09, 03:01:23, 03:08, 03:36N, 03:57, 03:107-03:108, 03:111, 32:04				4											15										
*03:02, 03:10, 03:31, 03:73, 03:76, 03:82, 03:90, 03:106	1			4							11				15										
*03:07	1			4											15										
*03:18	1						7					12			15										
*03:21N	1			4											15										24
*03:22	1		3	4											15										
*03:23:01	1			4											15										
*03:24	1			4											15										
*03:32				4							11														
*03:41				4											15						21				
*03:42	1		3	4											15										
*03:50, 03:66	1			4			7								15										
*03:63, 03:88	1			4										14	15										
*03:65, 03:69N	1			4							11				15										
*03:87	1			4											15										
*03:89				4											15										
*03:97	1			4											15										
*23:07N, 24:11N																									24
*24:19, C*03:82	1																								
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	

Length of spec.	195	270	190	235	180	195	215	100	85	120	215	235	90	100	100	95	205	235	175	175	100	150	80	295
PCR product(s)					210	550				280			195		215	205			220	240		230		470
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
*24:24, 29:01:01:01- 29:03, 29:05-29:18, 29:21- 29:27, 32:17, 68:36, 68:46															15									
*24:44, 24:109																					w			
*24:59									9															
*24:92				4						11														
*25:01:01-25:01:04, 25:03- 25:10, 25:12N, 26:05, 26:16, 26:20										10												21		
*25:02										10				14										
*25:11						6				10												21		
*26:01:01-26:02, 26:04, 26:08-26:12, 26:14-26:15, 26:17-26:18, 26:22-26:29, 26:34, 26:37-26:43:02, 26:45-26:56										10											20	21		
*26:03:01-26:03:02, 26:06, 26:21						6				10												21	22	
*26:07:01-26:07:02, 26:31																				20	21			
*26:13, 26:33										10				14							20			
*26:19														14							20			
*26:30						6																	22	
*26:32										10											20	21		
*26:35										10												21		
*26:36						6				10											20	21		
*29:04															w									
*30:01:01-30:02:04, 30:03, 30:07-30:08, 30:10- 30:13, 30:15-30:16, 30:19- 30:20, 30:22, 30:24-30:26, 30:30-30:34, 30:36-30:42, 30:44-30:45				3 4											15					17				
*30:02:05				3 4																17				
*30:04:01-30:04:02, 30:06, 30:29, 30:46				3 4				7																
*30:09, 31:04				3 4											15									
*30:14L, 30:43				3											15					17				
*30:17				3 4				7							15									
*30:18	1			3 4											15					17				
*30:23, 30:27N				3 4											15									
*30:35				4											15					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
Length of spec.	195	270	190	235	180	195	215	100	85	120	215	235	90	100	100	95	205	235	175	175	100	150	80	295
PCR product(s)					210	550				280			195		215	205			220	240		230		470

																			265					
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
*31:03			3	4						10					15						21			
*33:13										10											21			
*34:01:01-34:01:02, 34:05	1									10				w										
*34:02:01-34:02:02,34:04, 34:08	1		w	4						10				14	15									
*34:03	1		3	4						10				14	15									
*34:06, 66:06	1									10				14	15									
*34:07	1		w	4						10					15									
*34:09	1		w	4											15									
*36:01-36:02, 36:05				4			7															21		
*43:01													13						20		21			
*66:01, 66:04, 66:07, 66:09-66:10, 66:13-66:14	1									10				14										
*66:02, 66:12, 68:01:01:01-68:02:04, 68:06-68:09, 68:11N-68:12, 68:16-68:19, 68:21:01-68:23, 68:25-68:29, 68:32-68:35, 68:37-68:39, 68:41, 68:43-68:45, 68:47-68:53, 68:55-68:56, 68:58-68:60, 68:62, 68:64-68:65, 69:01	1														15									
*66:05, 66:15										10												21		
*66:08	1				5					10				14										
*66:11										10				14										
*68:15																						22		
*68:24, 68:40	1																							
*68:30	1														15									
*68:42, 68:54, 68:61	1														15							w		
*68:57															15									
*68:63	1														15								23	
*80:01-80:02																	17				21			
B*07:102, B*08:18, B*73:01-73:02										10														
B*07:117																								
B*44:36																								
HLA-A allele 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

INTERPRETATION TABLE

HLA-A*11 SSP subtyping

Amplification patterns of the A*11:01 to A*11:80 alleles

		Well ¹²																								
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48			
																									Length of spec. PCR product(s)	
																									Length of int. pos control ¹	
																									5'-primer(s) ²	
																									3'-primer(s) ³	
																									Well No. HLA-A allele ⁴	

220	305	260	210	240	80	235	230	205	110	85	105	65	105	120	280	90	205	175	445	145	210	120	55	200	Length of spec.	
	370	260	280			265	285	265	280	180	290	380	290	225		185		560								PCR product(s)
								295	305	265																HLA-A allele ⁴
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		
																									*11:01:01-11:01:20, 11:01:22-11:01:27	
																									*11:01:21	
																									*11:02:01-11:02:03, 11:77 ^{13,14}	
																									*11:03	
																									*11:04	
																									*11:05	
																									*11:06	
																									*11:07	
																									*11:08	
				29																					*11:09	
																									*11:10	
																									*11:11	
																									*11:12	
																									*11:13, 11:54 ⁵	
																									*11:14	
																									*11:15:01	
			28																						*11:15:02	
																									*11:16	
	27																								*11:17	
																									*11:18	
																									*11:19	
																									*11:20	
																									*11:21N	
																									*11:22	
25																									*11:23	
																									*11:24:01	
																									*11:24:02	
																									*11:25	
	26																								*11:26	
		27																							*11:27	
					30																				*11:29	
						31																			*11:30	
							32										41								*11:31	
							32																		*11:32, 11:51 ⁶	
																									*11:33:01-11:33:02	
																									*11:34	
							32										41								*11:35	
																									*11:36	
																									*11:37	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		
220	305	210	240	80	235	230	205	110	85	105	65	105	120	280	90	205	175	445	145	210	120	55	200	Length of spec.		

220	305	260	240	80	235	230	205	110	85	105	65	105	120	280	90	205	175	170	145	210	120	55	200	Length of spec.	
	370	260	280		265	285	265	305	180	290	380	290	225		185		560	445						PCR product(s)	
							295	305	265																Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
																									*03:01:01-03:01:01:03, 03:01:03-03:01:08, 03:01:10-03:01:22, 03:03N-03:06, 03:09, 03:11N-03:17, 03:19- 03:20, 03:25-03:30, 03:33- 03:35, 03:37-03:39, 03:43- 03:49, 03:51-03:56, 03:58- 03:62, 03:64, 03:67- 03:68N, 03:70-03:72, 03:74, 03:77-03:81, 03:83- 03:86, 03:91N-03:94, 03:96, 03:99-03:104, 03:109-03:110, 03:112
25																									*03:01:02
																									*03:01:09, 03:01:23, 03:08, 03:36N, 03:57, 03:107-03:108, 03:111, 32:04
																41									*03:02, 03:10, 03:31, 03:73, 03:76, 03:82, 03:90, 03:106
							32									41									*03:07
	27																								*03:18
																									*03:21N
																									*03:22
																		43							*03:23:01
				29												41									*03:24
																									*03:32
																									*03:41
							32									41									*03:42
																									*03:50, 03:66
																									*03:63, 03:88
																									*03:65, 03:69N
							31																		*03:87
																		43							*03:89
	27																								*03:97
																									*23:07N, 24:11N
																									*24:19, C*03:82
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

220	305	260	210	240	80	235	230	205	110	85	105	65	105	120	280	90	205	175	445	145	210	120	55	200	Length of spec.	
	370	260	280			265	285	265	280	180	290	380	290	225		185		560								PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		
																										*24:24, 29:01:01:01-29:03, 29:05-29:18, 29:21-29:27, 32:17, 68:36, 68:46
																										*24:44, 24:109
																										*24:59
																										*24:92
		27														41										
																										*25:01:01-25:01:04, 25:03-25:10, 25:12N, 26:05, 26:16, 26:20
																										*25:02
																										*25:11
																										*26:01:01-26:02, 26:04, 26:08-26:12, 26:14-26:15, 26:17-26:18, 26:22-26:29, 26:34, 26:37-26:43:02, 26:45-26:56
				29																						*26:03:01-26:03:02, 26:06, 26:21
																										*26:07:01-26:07:02, 26:31
																										*26:13, 26:33
																										*26:19
	26			29																						*26:30
																										*26:32
			28																							*26:35
																										*26:36
																										*29:04
																										*30:01:01-30:02:04, 30:03, 30:07-30:08, 30:10-30:13, 30:15-30:16, 30:19-30:20, 30:22, 30:24-30:26, 30:30-30:34, 30:36-30:42, 30:44-30:45
25																										*30:02:05
							32										w									*30:04:01-30:04:02, 30:06, 30:29, 30:46
							32										41									*30:09, 31:04
							32										w									*30:14L, 30:43
																										*30:17
																										*30:18
																										*30:23, 30:27N
																										*30:35
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		
220	305	260	240	80	235	230	205	110	85	105	65	105	120	280	90	205	175	445	145	210	120	55	200	Length of spec.		
	370	260	280		265	285	265	280	180	290	380	290	225		185		560								PCR product(s)	

25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	
						31	32									41									*31:03
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