

INTERPRETATION TABLE

HLA-C*16 SSP subtyping

Amplification patterns of the HLA-C*16:01 to 16:52 alleles

	Well ¹⁰											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	205	75	220	140	160	130	100	135	85	215	170	105
PCR product(s)						160	210		140	350	540	210
						210			205			245
Length of int. pos. control ¹	800	1070	800	800	800	1070	1070	1070	1070	800	1070	1070
5'-primer(s) ²	360	270	361	201	419	113	244	126	256	385	289	361
	5'-CAG ^{3'}	5'-AAG ^{3'}	5'-AgT ^{3'}	5'-CCA ^{3'}	5'-gTC ^{3'}	5'-CCA ^{3'}	5'-CgC ^{3'}	5'-ggA ^{3'}	5'-ACg ^{3'}	5'-ggT ^{3'}	5'-Agg ^{3'}	5'-AgT ^{3'}
	361					124	369		361	523	409	
	5'-AgT ^{3'}					5'-gCC ^{3'}	5'-TAC ^{3'}		5'-AgT ^{3'}	5'-CCg ^{3'}	5'-ggC ^{3'}	
						368						
						5'-gTC ^{3'}						
						418						
						5'-Agg ^{3'}						
3'-primer(s) ³	527	302	538	302	539	201	302	205	302	3 rd I	539	427
	5'-CCg ^{3'}	5'-ggT ^{3'}	5'-CCA ^{3'}	5'-ggC ^{3'}	5'-TCT ^{3'}	5'-CTT ^{3'}	5'-ggT ^{3'}	5'-CCT ^{3'}	5'-ggT ^{3'}	5'-CTC ^{3'}	5'-TCT ^{3'}	5'-gTA ^{3'}
	527					539	539	220	461			530
	5'-CCg ^{3'}					5'-TCT ^{3'}	5'-TCT ^{3'}	5'-CgA ^{3'}	5'-gCT ^{3'}			5'-CCA ^{3'}
									527			563
									5'-CCg ^{3'}			5'-CgT ^{3'}
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Length of spec.	205	75	220	140	160	130	100	135	85	215	170	105
PCR product(s)						160	210		140	350	540	210
						210			205			245
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-C allele ^{4,5}												
*16:01:01, 16:01:03-16:01:10, 16:34, 16:36, 16:41, 16:44, 16:51	1			4	5							
*16:01:02	1				5							
*16:02:01-16:02:09, 16:47	1	2			5							
*16:04:01, 16:33	1		3	4								
*16:06				4	5	6						
*16:07:01				4	5		7					
*16:07:02				4	5							
*16:08	1			4	5			8				
*16:09	1	2			5		7					
*16:10	1			4		6						
*16:11	1			4	5	6						
*16:12	1	2			5				9			
*16:13	1			4	5					10		
*16:14	1			4	5							
*16:15:01-16:15:02, 16:20 ⁶	1			4	5						11	
*16:16Q, 16:17 ⁷	1			4	5							12
*16:18	1			4	5							
*16:19	1	2			5					10		
*16:21	1			4	5							
*16:22				4	5							12
*16:23	1			4	5							
*16:24	1			4	5							
*16:25	1	2			5						11	
*16:26	1			4	5							
*16:27, 16:32 ⁸	1			4	5							
*16:28, 16:31, 16:50 ⁹	1			4	5							
*16:29	1		3	4								
*16:30N	1			4	5							
*16:35				4					9			
*16:37	1			w	5							
*16:38	1			4	5			8				
*16:39	1			4	5	6						
*16:40				4								
*16:42	1		3	4								
*16:43				4	5							
*16:45	1			4								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Length of spec.	205	75	220	140	160	130	100	135	85	215	170	105
PCR product(s)						160	210		140	350	540	210
						210			205			245
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*16:46	1	2			5							
*16:48		2							9			
*16:49	1			4	5							
*16:52	1			4	5				9			
*01:04, 01:09, 12:03:04, 12:03:09, 14:16			3									
*01:05, 01:36, 01:55, 02:02:12, 03:05, 03:13, 03:25, 03:27, 03:35, 03:135, 05:36, 07:01:23, 07:02:11, 07:03, 07:07, 07:16, 07:20, 07:36, 07:51, 07:56:01-07:56:02, 07:59-07:60, 07:64, 07:79, 07:88, 07:96, 07:109, 07:127, 07:227N, 07:263, 12:27, 14:09, 15:22												
*01:10, 14:25												
*01:14, 01:59, 02:02:09, 02:37, 02:57, 02:62, 03:07, 03:15, 03:45, 03:130, 03:140, 03:163, 05:01:21, 05:07N, 05:10, 05:16, 05:31, 12:09, 14:04, 14:12, 15:11, 15:16-15:17, 17:01:01-17:10, 17:12-17:13		2										
*01:21, 02:27:01-02:27:02, 04:11, 04:55, 08:01:01-08:09, 08:11, 08:13-08:27, 08:29-08:33:02, 08:35-08:36N, 08:38-08:43, 08:45-08:60, 08:62-08:64, 12:02:01-12:02:09, 12:08, 12:10:01-12:10:02, 12:14:01-12:14:02, 12:17-12:18:02, 12:22, 12:30, 12:36, 12:49, 12:56, 12:64, 12:67-12:69, 12:73-12:74, 12:80N				4								
*01:23, 01:58, 07:01:11, 07:04:01-07:04:04, 07:04:06-07:04:08, 07:10-07:12, 07:43, 07:45, 07:63, 07:101, 07:139, 07:142, 07:184, 07:195-07:196												
*01:27												12
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	205	75	220	140	160	130	100	135	85	215	170	105
PCR product(s)						160	210		140	350	540	210
						210			205			245
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

*02:02:01-02:02:03, 02:02:05-02:02:08, 02:02:10-02:02:11, 02:02:13-02:04, 02:06-02:11, 02:13, 02:15-02:16:02, 02:18-02:20, 02:22-02:26:03, 02:28-02:33, 02:35-02:36, 02:38N-02:40, 02:42-02:48, 02:50-02:56, 02:58-02:61, 02:63, 04:01:10, 04:01:23, 04:27, 04:33, 04:52, 04:107, 04:116, 05:01:01:01-05:01:20, 05:03-05:06, 05:08-05:09:02, 05:11-05:15, 05:17-05:24, 05:26-05:30, 05:32-05:35, 05:37-05:41, 05:44:01-05:55, 05:57-05:80, 08:10, 12:21, 12:41		2										
*02:05, 02:17		2	3									
*02:12, 12:72				w								
*02:14, 05:43		2										
*02:21		2			6							
*02:34		2				7						
*02:49, 04:03, 04:06, 05:25, 05:42		2										
*03:04:25, 08:12, 08:34, 08:44, 08:61, 12:19-12:20, 12:24, 12:44, 14:02:03, 14:03, 14:08, 14:10, 14:22, 14:35N, 14:38, 14:41, 15:07, <i>B*35:08:02, B*35:08:05, B*67:02</i>				4								
*03:108, 03:150												
*04:01:01:01-04:01:09, 04:01:11-04:01:22, 04:01:25-04:01:28, 04:01:30-04:01:41, 04:04:01-04:05, 04:07-04:10, 04:12-04:13, 04:15:01-04:20, 04:23-04:26, 04:28, 04:30-04:32, 04:34-04:35, 04:38-04:39, 04:41, 04:43-04:51, 04:53-04:54, 04:56-04:67, 04:70-04:79, 04:81-04:91, 04:93N-04:99, 04:102-04:106, 04:108-04:109, 04:111, 04:113-04:115N, 04:118-04:127		2										
*04:01:24, 04:37, 04:40, 04:100, 04:110, 04:117		2										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	205	75	220	140	160	130	100	135	85	215	170	105
PCR product(s)						160	210		140	350	540	210
						210			205			245
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

*04:01:29, 04:92, 04:112												
*04:14, 04:68		2									11	
*04:29, 04:36				4								
*04:42		2										
*04:69		2							9			
*04:80		2										
*04:101		2								10		
*05:56		2										
*05:81		2								10		
*06:02:01:01-06:02:01:02, 06:02:03-06:02:09, 06:02:11, 06:02:14-06:02:15, 06:02:17-06:03:02, 06:07, 06:09-06:10, 06:12-06:13, 06:15-06:21, 06:23-06:25, 06:27-06:29, 06:33-06:34, 06:36-06:39, 06:41-06:43, 06:45-06:51, 06:54-06:71, 06:73-06:76:01, 06:77-06:78, 06:80, 06:82-06:86		2	3									
*06:02:10, 06:26, 06:30, 06:53, 12:04:01-12:05, 12:33, 12:54, 12:60		2	3									
*06:02:12-06:02:13, 06:11, 06:44, 06:52			3									
*06:02:16, 06:04, 06:06, 06:14, 06:35, 06:40, 06:72, 06:79N, 06:81, 17:11		2										
*06:05		2										
*06:08, 06:22		2	3									
*06:31	1	2	3									
*06:32		2	3									
*06:76:02		2	3									
*06:87		2	3							10		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	205	75	220	140	160	130	100	135	85	215	170	105
PCR product(s)						160	210		140	350	540	210
						210			205			245
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

*07:01:01:01-07:01:10, 07:01:12-07:01:22, 07:01:24-07:02:08, 07:02:10, 07:02:12-07:02:36, 07:05-07:06, 07:08-07:09, 07:13-07:15, 07:17-07:19, 07:21-07:23, 07:26-07:30, 07:32N-07:33N, 07:35, 07:37-07:42, 07:44, 07:46-07:48, 07:50, 07:52, 07:54-07:55N, 07:57-07:58, 07:61N-07:62, 07:65-07:75, 07:77-07:78, 07:80-07:87, 07:89-07:95, 07:97-07:100, 07:102-07:108, 07:110-07:113, 07:115-07:126, 07:128-07:138, 07:140-07:141:02, 07:143-07:176, 07:178-07:180, 07:182-07:183, 07:185-07:194, 07:197-07:215, 07:217, 07:219-07:226, 07:228-07:237, 07:239-07:262 18:05												
*07:02:09				4								
*07:24, 07:114, 07:218									10			
*07:25												
*07:31									9			
*07:49, 07:76, 07:238, 18:01-18:04		2										
*07:53					5						11	
*07:177, 14:15									9			
*07:216					5	6					11	
*08:28				4								
*08:37, 12:16				4								
*12:03:01:01-12:03:03, 12:03:05-12:03:08, 12:03:10-12:03:22, 12:06-12:07, 12:11-12:13, 12:15, 12:23, 12:25-12:26, 12:29, 12:31-12:32, 12:34-12:35, 12:37-12:39N, 12:42Q-12:43, 12:46N-12:48, 12:50-12:53, 12:55, 12:57-12:59, 12:61-12:63, 12:65-12:66, 12:70-12:71, 12:75-12:79, 12:81-12:82			3	4								
*12:28			3	4								
*12:40				4								
*12:45			3	4					10			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	205	75	220	140	160	130	100	135	85	215	170	105
PCR product(s)						160	210		140	350	540	210
						210			205			245
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

*15:21				w								
*15:23												
*15:25				4								
A*24:73, A*24:157, B*07:66, B*51:55											11	
A*24:106						6						
A*24:174					5							
B*46:25					5		7				11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

INTERPRETATION TABLE

HLA-C*16 SSP subtyping

Amplification patterns of the HLA-C*16:01 to 16:52 alleles

Well ¹⁰												
13	14	15	16	17	18	19	20	21	22	23	24	
130	210	145	375	180	120	110	95	210	210	95	445	Length of spec.
					255	240	145			170	595	PCR product(s)
1070	1070	1070	1070	1070	1070	800	1070	1070	800	1070	1070	Length of int. pos. control ¹
126	368	97	361	201	126	361	436	368	524	201	379	5'-primer(s) ²
5'-ggA ^{3'}	5'-gTg ^{3'}	5'-TCg ^{3'}	5'-AgA ^{3'}	5'-CCA ^{3'}	5'-ggA ^{3'}	5'-AgT ^{3'}	5'-AgA ^{3'}	5'-gTT ^{3'}	5'-CCA ^{3'}	5'-CCA ^{3'}	5'-ACg ^{3'}	
		124					485				527	
		5'-gCC ^{3'}					5'-CAA ^{3'}				5'-TgA ^{3'}	
214	539	201	3 rd	341	205	430	539	539	3 rd	257	3 rd	3'-primer(s) ³
5'-CCA ^{3'}	5'-TCT ^{3'}	5'-CTT ^{3'}	5'-CTC ^{3'}	5'-CgT ^{3'}	5'-CCT ^{3'}	5'-gCg ^{3'}	5'-TCT ^{3'}	5'-TCT ^{3'}	5'-CTC ^{3'}	5'-CCT ^{3'}	5'-gCA ^{3'}	
					341	559				331		
					5'-CgT ^{3'}	5'-CTC ^{3'}				5'-CTA ^{3'}		
						565						
						5'-CAT ^{3'}						
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

130	210	145	375	180	120	110	95	210	210	95	445	Length of spec. PCR product(s)
					255	240	145			170	595	
13	14	15	16	17	18	19	20	21	22	23	24	Well No. HLA-C allele ^{4,5}
												*16:01:01, 16:01:03-16:01:10, 16:34, 16:36, 16:41, 16:44, 16:51
												*16:01:02
												*16:02:01-16:02:09, 16:47
												*16:04:01, 16:33
			16									*16:06
			16									*16:07:01
			16									*16:07:02
												*16:08
												*16:09
												*16:10
												*16:11
												*16:12
13												*16:13
												*16:14
												*16:15:01-16:15:02, 16:20 ⁶
												*16:16Q, 16:17 ⁷
	14											*16:18
												*16:19
		15										*16:21
												*16:22
								21				*16:23
									22			*16:24
												*16:25
				17	18							*16:26
							20					*16:27, 16:32 ⁸
						19						*16:28, 16:31, 16:50 ⁹
						19						*16:29
										23		*16:30N
												*16:35
												*16:37
					18							*16:38
		15										*16:39
											24	*16:40
										23		*16:42
												*16:43
												*16:45
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

130	210	145	375	180	120	110	95	210	210	95	445	Length of spec.
					255	240	145			170	595	PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
				17	18							*16:46
												*16:48
											24	*16:49
												*16:52
			16									*01:04, 01:09, 12:03:04, 12:03:09, 14:16
												*01:05, 01:36, 01:55, 02:02:12, 03:05, 03:13, 03:25, 03:27, 03:35, 03:135, 05:36, 07:01:23, 07:02:11, 07:03, 07:07, 07:16, 07:20, 07:36, 07:51, 07:56:01-07:56:02, 07:59-07:60, 07:64, 07:79, 07:88, 07:96, 07:109, 07:127, 07:227N, 07:263, 12:27, 14:09, 15:22
						19						*01:10, 14:25
												*01:14, 01:59, 02:02:09, 02:37, 02:57, 02:62, 03:07, 03:15, 03:45, 03:130, 03:140, 03:163, 05:01:21, 05:07N, 05:10, 05:16, 05:31, 12:09, 14:04, 14:12, 15:11, 15:16-15:17, 17:01:01:01-17:10, 17:12-17:13
			16									*01:21, 02:27:01-02:27:02, 04:11, 04:55, 08:01:01-08:09, 08:11, 08:13-08:27, 08:29-08:33:02, 08:35-08:36N, 08:38-08:43, 08:45-08:60, 08:62-08:64, 12:02:01-12:02:09, 12:08, 12:10:01-12:10:02, 12:14:01-12:14:02, 12:17-12:18:02, 12:22, 12:30, 12:36, 12:49, 12:56, 12:64, 12:67-12:69, 12:73-12:74, 12:80N
					18							*01:23, 01:58, 07:01:11, 07:04:01-07:04:04, 07:04:06-07:04:08, 07:10-07:12, 07:43, 07:45, 07:63, 07:101, 07:139, 07:142, 07:184, 07:195-07:196
												*01:27
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
130	210	145	375	180	120	110	95	210	210	95	445	Length of spec.
					255	240	145			170	595	PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

			16									*02:02:01-02:02:03, 02:02:05-02:02:08, 02:02:10-02:02:11, 02:02:13-02:04, 02:06-02:11, 02:13, 02:15-02:16:02, 02:18-02:20, 02:22-02:26:03, 02:28-02:33, 02:35-02:36, 02:38N-02:40, 02:42-02:48, 02:50-02:56, 02:58-02:61, 02:63, 04:01:10, 04:01:23, 04:27, 04:33, 04:52, 04:107, 04:116, 05:01:01:01-05:01:20, 05:03-05:06, 05:08-05:09:02, 05:11-05:15, 05:17-05:24, 05:26-05:30, 05:32-05:35, 05:37-05:41, 05:44:01-05:55, 05:57-05:80, 08:10, 12:21, 12:41
						19						*02:05, 02:17
			16									*02:12, 12:72
		15	16									*02:14, 05:43
			16									*02:21
			16									*02:34
			16	17	18							*02:49, 04:03, 04:06, 05:25, 05:42
												*03:04:25, 08:12, 08:34, 08:44, 08:61, 12:19-12:20, 12:24, 12:44, 14:02:03, 14:03, 14:08, 14:10, 14:22, 14:35N, 14:38, 14:41, 15:07, B*35:08:02, B*35:08:05, B*67:02
								22				*03:108, 03:150
			16	17								*04:01:01:01-04:01:09, 04:01:11-04:01:22, 04:01:25-04:01:28, 04:01:30-04:01:41, 04:04:01-04:05, 04:07-04:10, 04:12-04:13, 04:15:01-04:20, 04:23-04:26, 04:28, 04:30-04:32, 04:34-04:35, 04:38-04:39, 04:41, 04:43-04:51, 04:53-04:54, 04:56-04:67, 04:70-04:79, 04:81-04:91, 04:93N-04:99, 04:102-04:106, 04:108-04:109, 04:111, 04:113-04:115N, 04:118-04:127
				17								*04:01:24, 04:37, 04:40, 04:100, 04:110, 04:117
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
130	210	145	375	180	120	110	95	210	210	95	445	Length of spec.
					255	240	145			170	595	PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

			16	17									*04:01:29, 04:92, 04:112
			16	17									*04:14, 04:68
			16	17									*04:29, 04:36
		15	16	17									*04:42
			16	17									*04:69
				17	18								*04:80
			16	17									*04:101
			16							23			*05:56
			16										*05:81
					18								*06:02:01:01-06:02:01:02, 06:02:03-06:02:09, 06:02:11, 06:02:14-06:02:15, 06:02:17-06:03:02, 06:07, 06:09-06:10, 06:12-06:13, 06:15-06:21, 06:23-06:25, 06:27-06:29, 06:33-06:34, 06:36-06:39, 06:41-06:43, 06:45-06:51, 06:54-06:71, 06:73-06:76:01, 06:77-06:78, 06:80, 06:82-06:86
													*06:02:10, 06:26, 06:30, 06:53, 12:04:01-12:05, 12:33, 12:54, 12:60
					18								*06:02:12-06:02:13, 06:11, 06:44, 06:52
					18								*06:02:16, 06:04, 06:06, 06:14, 06:35, 06:40, 06:72, 06:79N, 06:81, 17:11
		15		17	18								*06:05
					18	19							*06:08, 06:22
					18								*06:31
13					18								*06:32
				17	18								*06:76:02
					18								*06:87
13	14	15	16	17	18	19	20	21	22	23	24		Well No.
130	210	145	375	180	120	110	95	210	210	95	445		Length of spec.
					255	240	145			170	595		PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24		Well No.

			16		18							*07:01:01:01-07:01:10, 07:01:12-07:01:22, 07:01:24-07:02:08, 07:02:10, 07:02:12-07:02:36, 07:05-07:06, 07:08-07:09, 07:13-07:15, 07:17-07:19, 07:21-07:23, 07:26-07:30, 07:32N-07:33N, 07:35, 07:37-07:42, 07:44, 07:46-07:48, 07:50, 07:52, 07:54-07:55N, 07:57-07:58, 07:61N-07:62, 07:65-07:75, 07:77-07:78, 07:80-07:87, 07:89-07:95, 07:97-07:100, 07:102-07:108, 07:110-07:113, 07:115-07:126, 07:128-07:138, 07:140-07:141:02, 07:143-07:176, 07:178-07:180, 07:182-07:183, 07:185-07:194, 07:197-07:215, 07:217, 07:219-07:226, 07:228-07:237, 07:239-07:262 18:05
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			16		18							*07:24, 07:114, 07:218
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		15	16									*08:37, 12:16
												*12:03:01:01-12:03:03, 12:03:05-12:03:08, 12:03:10-12:03:22, 12:06-12:07, 12:11-12:13, 12:15, 12:23, 12:25-12:26, 12:29, 12:31-12:32, 12:34-12:35, 12:37-12:39N, 12:42Q-12:43, 12:46N-12:48, 12:50-12:53, 12:55, 12:57-12:59, 12:61-12:63, 12:65-12:66, 12:70-12:71, 12:75-12:79, 12:81-12:82
				17	18							*12:28
13			16									*12:40
												*12:45
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
130	210	145	375	180	120	110	95	210	210	95	445	Length of spec.
					255	240	145			170	595	PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

													<i>*15:21</i>
		15											<i>*15:23</i>
				17	18								<i>*15:25</i>
													<i>A*24:73, A*24:157, B*07:66,</i>
													<i>B*51:55</i>
													<i>A*24:106</i>
													<i>A*24:174</i>
													<i>B*46:25</i>
13	14	15	16	17	18	19	20	21	22	23	24	Well No.	