

# INTERPRETATION TABLE

## HLA-C\*15 SSP subtyping

Amplification patterns of the HLA-C\*15:02 to 15:48 alleles

	Well <sup>10</sup>											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	325	175	70	315	100	305	140	160	135	170	315	100
PCR product			195			345		185	305			240
						370						
Length of int. pos. control <sup>1</sup>	800	1070	1070	1070	1070	1070	800	1070	1070	1070	800	1070
5'-primer <sup>2</sup>	409	134	134	419	420	355	201	125	97	1 <sup>st</sup>	420	105
	5'-ggC <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-TTC <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CgA <sup>3'</sup>	5'-TCg <sup>3'</sup>	5'-CgA <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-gCT <sup>3'</sup>
						379		420	118			
						5'-ACg <sup>3'</sup>		5'-TTA <sup>3'</sup>	5'-CCA <sup>3'</sup>			
						419			430			
						5'-gTA <sup>3'</sup>			5'-ACC <sup>3'</sup>			
3'-primer <sup>3</sup>	3 <sup>rd</sup>	270	164	3 <sup>rd</sup>	477	3 <sup>rd</sup>	302	270	201	134	3 <sup>rd</sup>	164
	5'-CTC <sup>3'</sup>	5'-TAG <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-TAG <sup>3'</sup>	5'-CTT <sup>3'</sup>	5'-AgC <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-gCA <sup>3'</sup>
			289				302	539	3 <sup>rd</sup>			302
			5'-AgC <sup>3'</sup>				5'-ggC <sup>3'</sup>	5'-TCC <sup>3'</sup>	5'-CTC <sup>3'</sup>			5'-ggC <sup>3'</sup>
												302
												5'-ggC <sup>3'</sup>
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-C allele <sup>4</sup>												
*15:02:01-15:02:07	1	2									11	
*15:03	1	2	3								11	
*15:04		2		4								
*15:05:01-15:05:05	1	2			5							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Length of spec.	325	175	70	315	100	305	140	160	135	170	315	100
PCR product			195			345		185	305			240
						370						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*15:06:01-15:06:03	1	2				6						
*15:07	1	2					7				11	12
*15:08	1	2						8			11	
*15:09	1	2		4								
*15:10:01-15:10:02	1									10	11	
*15:11	1								9		11	
*15:12	1	2									11	
*15:13	1	2									11	
*15:15	1	2									11	
*15:16	1		3								11	
*15:17	1										11	
*15:18	1	2							9		11	
*15:19	1	2		4				8				
*15:20	1			4								
*15:21	1	2					7				11	12
*15:22	1	2			5	6						
*15:23	1	2			5				9			
*15:24	1	2										
*15:25			w				7					12
*15:26	1	2				6					11	
*15:27	1			4								
*15:28	1	2	3								11	12
*15:29	1	2			5							
*15:30		2		4								
*15:31, 15:33 <sup>5</sup>	1	2									11	
*15:32Q, 15:41 <sup>6</sup>	1	2									11	
*15:34, 15:39 <sup>7</sup>	1	2									11	
*15:35, 15:47 <sup>8</sup>	1	2									11	
*15:36	1	2			5							
*15:37	1	2				6					11	
*15:38	1	2									11	
*15:40		2				6						
*15:42	1	2									11	
*15:43	1										11	12
*15:44, 15:45 <sup>9</sup>	1	2									11	
*15:46	1	2			5							
*15:48	1	2									11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	325	175	70	315	100	305	140	160	135	170	315	100

<b>PCR product</b>			<b>195</b>			<b>345</b>		<b>185</b>	<b>305</b>			<b>240</b>
						<b>370</b>						
<b>Well No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>

*01:04, 02:02:13, 02:21, 02:26:01-02:26:02, 02:39, 02:45, 06:02:01:01- 06:02:01:02, 06:02:03- 06:04, 06:06-06:08, 06:10- 06:27, 06:29-06:33, 06:35- 06:37, 06:39-06:43, 06:45- 06:58, 07:01:01-07:02:08, 07:02:10-07:03, 07:05- 07:06, 07:08, 07:10, 07:14- 07:19, 07:21-07:27:02, 07:30-07:33N, 07:35-07:40, 07:42-07:44, 07:46-07:62, 07:65-07:72, 07:74-07:91, 07:93-07:95, 07:97-07:100, 07:102-07:122, 07:124- 07:126, 07:128-07:138, 07:140-07:141, 07:143- 07:171, 14:18				4								
*01:21, 14:03, 14:22				4			7					
*01:30												
*02:02:01-02:02:03, 02:02:05-02:02:12, 02:02:14-02:05, 02:09- 02:11, 02:13-02:18, 02:20, 02:24-02:25Q, 02:28-02:34, 02:37-02:38N, 02:40, 02:42- 02:44, 02:46, 06:05				4					9			
*02:06	1							8	9		11	
*02:07, 02:19, 02:22									9			
*02:08				4					9	10		
*02:12			w	4			7		9			12
*02:23	1								9			
*02:27:01-02:27:02				4			7		9			12
*02:35				4					9			
*02:36	1			4					9			
*02:47								8	9		11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	325	175	70	315	100	305	140	160	135	170	315	100
PCR product			195			345		185	305			240
						370						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

*03:02:01-03:02:07, 03:14, 03:16, 03:33, 03:36, 03:40, 03:42-03:43:02, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108				4								12
*03:03:01-03:04:16, 03:04:18-03:06, 03:09-03:11:02, 03:13, 03:17, 03:20N-03:26, 03:28, 03:30, 03:32, 03:34-03:35, 03:37, 03:41, 03:44, 03:46-03:59, 03:61-03:63, 03:65-03:66, 03:68, 03:70, 03:72-03:80, 03:82-03:83, 03:85-03:88, 03:90-03:94, 03:96-03:98, 03:100-03:101, 03:103-03:107												12
*03:08, 03:31		2										12
*03:12, 03:19, 03:102										11		12
*03:15			3	4								
*03:18, 04:01:01:01-04:01:02, 04:01:04-04:01:26, 04:04:01-04:05, 04:07-04:10, 04:12-04:15:03, 04:17-04:20, 04:23-04:28, 04:30-04:35, 04:37-04:41, 04:43-04:51, 04:53, 04:56-04:79, 04:81-04:84, 05:01:01:01-05:01:15, 05:03, 05:05-05:20, 05:22-05:25, 05:27-05:35, 05:37-05:42, 05:44-05:46, 05:48N-05:53, 08:10, 14:26, 17:01:01:01-17:08, 18:04										10		
*03:27, 03:38:01-03:38:02, 03:69			w									12
*03:29		2										12
<b>Well No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>Length of spec.</b>	<b>325</b>	<b>175</b>	<b>70</b>	<b>315</b>	<b>100</b>	<b>305</b>	<b>140</b>	<b>160</b>	<b>135</b>	<b>170</b>	<b>315</b>	<b>100</b>
<b>PCR product</b>			<b>195</b>			<b>345</b>		<b>185</b>	<b>305</b>			<b>240</b>
						<b>370</b>						

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*03:64										10		12
*03:81	1											12
*04:03, 04:06, 04:80			3						9			
*04:11, 04:29, 04:36, 08:01:01-08:08, 08:12- 08:13, 08:15:01-08:21, 08:23-08:36N, 08:38-08:46, 12:31, 16:10							7			10		
*04:16			3									
*04:42, 05:26, 05:43									9	10		
*04:52, 05:47										10		
*04:54, 05:04, 06:28, 07:64, 07:73, 07:92, 12:03:04, 12:03:09, 12:04:01-12:05, 12:09, 12:21, 12:27, 12:33, 12:41, 14:02:01-14:02:02, 14:02:04-14:02:07, 14:04- 14:07N, 14:09, 14:11-14:17, 14:19-14:21N, 14:23-14:25, 14:27-14:29, 16:01:02, 16:02:01-16:02:06, 16:09, 16:12, 16:19, 16:25				4						10		
*04:55							7			10		
*05:21										10		
*05:36										10		
*06:44, 07:07, 07:09				4								
*07:02:09, 12:16				4			7		9			
*07:20		2	w	4								
*07:96		2	w	4								12
*07:123	1			4								
*07:127			w	4								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	325	175	70	315	100	305	140	160	135	170	315	100
PCR product			195			345		185	305			240
						370						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

*08:09, 08:11, 12:02:01-12:03:03, 12:03:05-12:03:08, 12:03:10-12:03:15, 12:06-12:08, 12:10:01-12:14:02, 12:17-12:20, 12:22-12:26, 12:28-12:30, 12:32, 12:34-12:40, 12:42Q-12:51, 14:02:03, 14:08, 16:01:01, 16:01:03-16:01:06, 16:04:01, 16:06-16:08, 16:11, 16:13-16:18, 16:22-16:24, 16:26-16:32				4			7			10		
*08:14, B*35:08:02, B*67:02							7					
*08:22							7			10		
*08:37							7		9	10		
*12:15	1						7	8		10	11	
*14:10				4			7					
*16:20	1			4			7			10		
*16:21				4			7		9	10		
B*07:78, B*13:18, B*13:31, B*13:41, B*15:73, B*54:10, B*54:20, B*55:09, B*55:21, B*55:37								w				
B*15:200, B*58:05												
B*46:11, B*46:18, B*56:08, B*56:14												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

<b>INTERPRETATION TABLE</b>												
<b>HLA-C*15 SSP subtyping</b>												
<b>Amplification patterns of the HLA-C*15:02 to 15:48 alleles</b>												
<b>Well<sup>10</sup></b>												
13	14	15	16	17	18	19	20	21	22	23	24	
125	130	85	90	140	85	165	120	170	225	175	175	<b>Length of spec. PCR product</b>
185	440		165	215	160	320	235	445		545	380	
			345	295		355						
<b>800</b>	<b>800</b>	<b>1070</b>	<b>1070</b>	<b>1070</b>	<b>1070</b>	<b>1070</b>	<b>1070</b>	<b>1070</b>	<b>800</b>	<b>1070</b>	<b>1070</b>	<b>Length of int. pos. control<sup>1</sup></b>
201	270	270	261	98	409	368	105	322	128	134	356	<b>5'-primer<sup>2</sup></b>
5'-CCA 3'	5'-AAG 3'	5'-AAC 3'	5'-AAC 3'	5'-CTC 3'	5'-ggC 3'	5'-gTC 3'	5'-gCT 3'	5'-gCC 3'	5'-AgT 3'	5'-CCA 3'	5'-CAA 3'	
<b>2<sup>nd</sup> I</b>	<b>757</b>		<b>379</b>	<b>2<sup>nd</sup> I</b>		<b>404</b>		<b>715</b>		<b>972</b>	<b>562</b>	
5'-CCA 3'	5'-CCC 3'		5'-ACg 3'	5'-CCA 3'		5'-CCA 3'		5'-CAG 3'		5'-CTA 3'	5'-Cgg 3'	
			<b>560</b>			<b>560</b>						
			5'-CCT 3'			5'-CgA 3'						
343	420	312	312	270	455	<b>3<sup>rd</sup> I</b>	186	477	312	266	<b>3<sup>rd</sup> I</b>	<b>3'-primer<sup>3</sup></b>
5'-T 3'	5'-gCT 3'	5'-AgT 3'	5'-AgT 3'	5'-TAG 3'	5'-CCA 3'	5'-ggA 3'	5'-TCC 3'	5'-gCg 3'	5'-AgT 3'	5'-TCA 3'	5'-CTC 3'	
<b>412</b>	<b>846</b>		<b>3<sup>rd</sup> I</b>	<b>427</b>	<b>527</b>		<b>299</b>	<b>846</b>		<b>1034</b>		
5'-gTT 3'	5'-CAC 3'		5'-ggA 3'	5'-gTT 3'	5'-CCg 3'		5'-TCT 3'	5'-CAC 3'		5'-AgT 3'		
				<b>583</b>								
				5'-gTg 3'								
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>Well No.</b>
												<b>HLA-C allele<sup>4</sup></b>
												<b>*15:02:01-15:02:07</b>
												<b>*15:03</b>
												<b>*15:04</b>
												<b>*15:05:01-15:05:05</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>Well No.</b>



125	130	85	90	140	85	165	120	170	225	175	175	Length of spec.
185	440		165	215	160	320	235	445		545	380	PCR product
			345	295		355						
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
		15										*15:06:01-15:06:03
												*15:07
		15										*15:08
		15										*15:09
		15										*15:10:01-15:10:02
	14											*15:11
13		15										*15:12
	14	15										*15:13
		15	16									*15:15
	14											*15:16
	14											*15:17
		15										*15:18
		15										*15:19
												*15:20
		15										*15:21
		15										*15:22
		15										*15:23
13		15										*15:24
												*15:25
		15	16									*15:26
			16									*15:27
		15										*15:28
		15								23		*15:29
		15				19						*15:30
		15			18							*15:31, 15:33 <sup>5</sup>
		15									24	*15:32Q, 15:41 <sup>6</sup>
		15		17								*15:34, 15:39 <sup>7</sup>
		15						21				*15:35, 15:47 <sup>8</sup>
		15		17								*15:36
		15										*15:37
		15							22			*15:38
		15										*15:40
		15				19						*15:42
	14											*15:43
		15					20					*15:44, 15:45 <sup>9</sup>
		15				19						*15:46
										23		*15:48
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
125	130	85	90	140	85	165	120	170	225	175	175	Length of spec.

<b>185</b>	<b>440</b>		<b>165</b>	<b>215</b>	<b>160</b>	<b>320</b>	<b>235</b>	<b>445</b>		<b>545</b>	<b>380</b>	<b>PCR product</b>
			<b>345</b>	<b>295</b>		<b>355</b>						
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>Well No.</b>

												*01:04, 02:02:13, 02:21, 02:26:01-02:26:02, 02:39, 02:45, 06:02:01:01-06:02:01:02, 06:02:03-06:04, 06:06-06:08, 06:10-06:27, 06:29-06:33, 06:35-06:37, 06:39-06:43, 06:45-06:58, 07:01:01-07:02:08, 07:02:10-07:03, 07:05-07:06, 07:08, 07:10, 07:14-07:19, 07:21-07:27:02, 07:30-07:33N, 07:35-07:40, 07:42-07:44, 07:46-07:62, 07:65-07:72, 07:74-07:91, 07:93-07:95, 07:97-07:100, 07:102-07:122, 07:124-07:126, 07:128-07:138, 07:140-07:141, 07:143-07:171, 14:18
												*01:21, 14:03, 14:22
				17								*01:30
												*02:02:01-02:02:03, 02:02:05-02:02:12, 02:02:14-02:05, 02:09-02:11, 02:13-02:18, 02:20, 02:24-02:25Q, 02:28-02:34, 02:37-02:38N, 02:40, 02:42-02:44, 02:46, 06:05
	14											*02:06
												*02:07, 02:19, 02:22
												*02:08
												*02:12
												*02:23
												*02:27:01-02:27:02
								21				*02:35
												*02:36
	14											*02:47
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
125	130	85	90	140	85	165	120	170	225	175	175	Length of spec.
185	440		165	215	160	320	235	445		545	380	PCR product
			345	295		355						
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

												*03:02:01-03:02:07, 03:14, 03:16, 03:33, 03:36, 03:40, 03:42-03:43:02, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108
												*03:03:01-03:04:16, 03:04:18-03:06, 03:09- 03:11:02, 03:13, 03:17, 03:20N-03:26, 03:28, 03:30, 03:32, 03:34-03:35, 03:37, 03:41, 03:44, 03:46-03:59, 03:61-03:63, 03:65-03:66, 03:68, 03:70, 03:72-03:80, 03:82-03:83, 03:85-03:88, 03:90-03:94, 03:96-03:98, 03:100-03:101, 03:103- 03:107
												*03:08, 03:31
	14											*03:12, 03:19, 03:102
												*03:15
												*03:18, 04:01:01:01- 04:01:02, 04:01:04- 04:01:26, 04:04:01-04:05, 04:07-04:10, 04:12- 04:15:03, 04:17-04:20, 04:23-04:28, 04:30-04:35, 04:37-04:41, 04:43-04:51, 04:53, 04:56-04:79, 04:81- 04:84, 05:01:01:01- 05:01:15, 05:03, 05:05- 05:20, 05:22-05:25, 05:27- 05:35, 05:37-05:42, 05:44- 05:46, 05:48N-05:53, 08:10, 14:26, 17:01:01:01-17:08, 18:04
												*03:27, 03:38:01-03:38:02, 03:69
		15										*03:29
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
125	130	85	90	140	85	165	120	170	225	175	175	Length of spec.
185	440		165	215	160	320	235	445		545	380	PCR product
			345	295		355						

13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*03:64
												*03:81
												*04:03, 04:06, 04:80
												*04:11, 04:29, 04:36, 08:01:01-08:08, 08:12- 08:13, 08:15:01-08:21, 08:23-08:36N, 08:38-08:46, 12:31, 16:10
												*04:16
												*04:42, 05:26, 05:43
13												*04:52, 05:47
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13												*04:55
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13	14	15	16	17	18	19	20	21	22	23	24	Well No.
125	130	85	90	140	85	165	120	170	225	175	175	Length of spec.
185	440		165	215	160	320	235	445		545	380	PCR product
			345	295		355						
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

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13	14	15	16	17	18	19	20	21	22	23	24		Well No.