INTERPRETATION TABLE

HLA-A*68 SSP subtyping

Amplification patterns of the A*68:01 to A*68:85 and the A*69:01 alleles

	Well[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.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225			215			
									250															
Length of int.	800	1070	1070	1070	800	1070	1070	800	800	800	800	1070	800	800	1070	1070	1070	800	1070	1070	1070	800	1070	1070
pos. control[1]																								
5'-primer(s)[2]	127	261	106	102	98	102	145	98	106	413	98	47	2nd I	103	453	106	395	413	317	362	102	413	413	261
	5'-ggg 3'	5'-AAC 3'	5'-CCA 3'	5'-ACT 3'	5'-CTA 3'	5'-ACT 3'	5'-CCA 3'	5'-CTA 3'	5'-CCA 3'	5'-CCg 3'	5'-CTA 3'	5'-g.T 3'	5'-CCT 3'	5'-CCT 3'	5'-AAA 3'	5'-CCA 3'	5'-gCA 3'	5'-CCg 3'	5'-gCA 3'	5'-gAg 3'	5'-ACT 3'	5'-CCg 3'	5'-CCg 3'	5'-AAC 3'
					397	106	414	418	2nd I		419	376		413			413			362	413			
					5'-gCC 3'	5'-CCA 3'	5'-gAA 3'	5'-AgC 3'	5'-CCT 3'		5'-ggT 3'	5'-gCA 3'		5'-CCg 3'			5'-CCA 3'			5'-gAg 3'	5'-CCA 3'			
3'-primer(s)[3]	282	413	259	240	290	292	259	299	216	538	256	282	497	255	555	278	539	570	362	413	275	539	559	355
	5'-gAC 3'	5'-gCC 3'	5'-gTT 3'	5'-ggA 3'	5'-CAA 3'	5'-gTg 3'	5'-gTT 3'	5'-TCA 3'	5'-gCT 3'	5'-CTg 3'	5'-CTC 3'	5'-gAC 3'	5'-TgA 3'	5'-Cgg 3'	5'-CCA 3'	5'-ggC 3'	5'-TCC 3'	5'-CCg 3'	5'-TCA 3'	5'-gCC 3'	5'-CCC 3'	5'-TCC 3'	5'-CgT 3'	5'-gAC 3'
	282			282	497		506	539	479		538	538	497	521	616	282		595			538			
	5'-gAC 3'			5'-gAg 3'	5'-Tgg 3'		5'-TgT 3'	5'-TCC 3'	5'-CCA 3'		5'-CCA 3'	5'-CCA 3'	5'-TgA 3'	5'-ggA 3'	5'-CgC 3'	5'-gAg 3'		5'-CCg 3'			5'-CCg 3'			
				292					538				524			282								
				5'-gTg 3'					5'-CAg 3'				5'-CAC 3'			5'-gAg 3'								
									538															
									5'-CAA 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
Length of spec.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225			215			
									250															
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]																								
***68:01:01:01**-68:01:01:02, 68:01:03-68:01:05, 68:01:07-68:01:10, 68:21:02, 68:56, 68:58, 68:72, 68:79	**1**	**2**																				**22**	**23**	
***68:01:02, 68:01:06, 68:37,** 68:69-68:71, 68:73, 68:76, 68:83, 68:85[9]	**1**	**2**																				**22**	**23**	
***68:02:01:01-68:02:04,** 68:62, 68:64, 68:74, 68:77-68:78, 68:82	**1**		**3**														**17**							
***68:03:01-**68:03:02		**2**		**4**																		**22**	**23**	
***68:03:03**		**2**																				**22**	**23**	
*68:04		**2**			**5**																	**22**	**23**	
***68:05**		**2**		**4**		**6**																**22**	**23**	
***68:06**	**1**						**7**																	
***68:07**	**1**							**8**														**22**	**23**	
*68:08:01	**1**	**2**							**9**														**23**	
***68:08:02**	**1**	**2**							**9**														**23**	
*68:09	**1**	**2**								**10**													**23**	
***68:10**	**1**										**11**											**22**	**23**	
***68:11N**	**1**	**2**										**12**										**22**	**23**	
***68:12**	**1**	**2**											**13**									**22**	**23**	
***68:13**	**1**													**14**								**22**	**23**	
*68:14	**1**										**11**				**15**							**22**	**23**	
***68:15**			**3**			**6**										**16**	**17**							
***68:16**	**1**	**2**																				**22**	**23**	
***68:17**	**1**	**2**									**11**											**22**	**23**	
*68:18N	**1**		**3**						**9**								**17**							
***68:19**	**1**	**2**													**15**							**22**	**23**	
*68:20		**2**		**4**		**6**											**17**					**22**	**23**	
*68:21:01	**1**	**2**																**18**				**22**	**23**	
*68:22	**1**	**2**																	**19**			**22**	**23**	
*68:23	**1**	**2**																		**20**		**22**	**23**	
***68:24**	**1**	**2**																			**21**	**22**	**23**	
***68:25**	**1**	**2**			**5**																	**22**	**23**	
*68:26	**1**	**2**								**10**								**18**						
***68:27,** 66:16[5]	**1**																**17**							
*68:28	**1**		**3**														**17**				**21**			
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**	**435**	**195**	**180**	**140**	**230**	**145**	**160**	**150**	**165**	**160**	**205**	**210**	**150**	**145**	**215**	**175**	**200**	**325**	**90**	**165**	**165**	**185**	**375**
PCR product(s)				**225**	**235**			**240**	**195**		**200**	**405**	**240**	**195**	**205**			**225**			**215**			
									250															
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**
*68:29, 68:52[6]	**1**	**2**																				**22**	**23**	
*68:30	**1**			**4**																		**22**	**23**	
***68:31**			**3**													**16**	**17**							

*68:32	1	2					7															22	23	
***68:33**	1	2																				22	23	
*68:34	1		3														17							
***68:35**	1	2																				22	23	
***68:36**		2																				22	23	
*68:38	1	2										12										22	23	
*68:39	1	2	3																			22	23	
***68:40**	1		3													16	17							
*68:41	1	2												14								22	23	
*68:42	1	2																				22	23	
*68:43	1	2																				22	23	
***68:44**	1		3														17							
*68:45	1	2																				22	23	
***68:46**	w	2						8														22	23	
*68:47	1	2							9													22	23	
*68:48	1		3														17							
*68:49N	1		3														17							
*68:50	1	2											13									22	23	
*68:51	1		3										13				17							
***68:53**	1		3														17							
***68:54,** 68:61	1		3														17							
***68:55**	1	2																				22	23	
*68:57, 68:84		2																				22	23	
***68:59N**	1	2																				22	23	
***68:60**	1		3														17							
*68:63	1	2							9														23	
***68:65**	1	2																18				22		
*68:66, 68:75, 03:50, 03:66[7]	1																					22	23	
***68:67**	1		3														17							
***68:68**	1	2																				22	23	
***68:80**	1		3														17							
*68:81	1		3												15		17							
***69:01**	1																							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
Length of spec.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225			215			
									250															
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
*01:01:01:01-01:04N, 01:07-01:11N, 01:14-01:18N, 01:21-01:24, 01:26-01:29, 01:31N-01:33, 01:35-01:50, 01:52N, 01:54-01:64, 01:67-01:71, 01:74-01:78, 01:80-01:97, 01:99, 01:101, 01:103-01:104																		18				w		

*01:06, 01:25, 01:53N, 01:65, 01:100, 29:03, 80:01-80:02																		**18**						
*01:12, 01:19, 11:38, 24:17, 24:41										**10**								**18**						
*01:13, 03:18	**1**																	**18**				**w**		
*01:20, 01:66, 01:73																		**18**		**20**		**w**		
*01:51		**2**																**18**				**w**		
*01:72, 01:102, 36:04																						**w**		
*01:98																		**18**				**22**		
*02:02, 02:05:01-02:05:05, 02:08, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:232, 02:286, 02:320, 02:324																	**w**							
*02:03:01-02:03:04, 02:148, 02:253, 02:258, 02:264, 02:281, 02:315, 02:323																	**17**							
*02:06:05				**4**		**6**																		
*02:22:01-02:22:02, 02:50, 02:104, 02:136, 02:191, 02:230, 02:267, 23:02, 24:06, 24:138, 24:167, 31:30, 32:10, *B*27:25, C*02:07*																	**17**							
*02:26, 02:99, 02:171:02																								
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**	**435**	**195**	**180**	**140**	**230**	**145**	**160**	**150**	**165**	**160**	**205**	**210**	**150**	**145**	**215**	**175**	**200**	**325**	**90**	**165**	**165**	**185**	**375**
PCR product(s)				**225**	**235**			**240**	**195**		**200**	**405**	**240**	**195**	**205**			**225**			**215**			
									250															
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**
*02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 03:01:30, 03:19, 03:40, 03:43, 03:53, 03:82, 03:98, 03:103, 03:105, 11:01:35, 11:09, 11:22-11:24:02, 11:31, 11:50Q, 11:59, 11:112, 24:19, 30:18, 30:55, 74:13, *C*03:82*	**1**																							
*02:49, 24:87, *B*27:45*																	**17**				**21**			
*02:52							**7**																	
*02:55, 33:22																								**24**
*02:74:02, 02:159, 23:25																								
*02:114, 02:246, 02:279, 29:22																				**20**			**23**	
*02:117																	**17**							

*02:121, 02:237, 23:47, 24:18															**15**									
*02:122						**6**										**16**	**17**							
*02:135																	**17**							
*02:143						**6**										**16**								
*02:229, 29:28, 36:02																						**22**	**23**	
*02:243, 24:82																								
*03:01:01:01-03:01:08, 03:01:10-03:01:22, 03:01:24-03:01:29, 03:01:31-03:03N, 03:04:02-03:07, 03:09, 03:11N-03:16, 03:20-03:23:02, 03:25-03:31, 03:33-03:35, 03:37-03:39, 03:42, 03:44-03:49, 03:51-03:52, 03:54-03:56, 03:58-03:65, 03:67-03:81, 03:83-03:88, 03:90-03:94, 03:96, 03:99-03:102, 03:104, 03:106, 03:109-03:110, 03:112-03:121, 03:123-03:133, 11:35	**1**																						**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**
Length of spec.	**195**	**435**	**195**	**180**	**140**	**230**	**145**	**160**	**150**	**165**	**160**	**205**	**210**	**150**	**145**	**215**	**175**	**200**	**325**	**90**	**165**	**165**	**185**	**375**
PCR product(s)				**225**	**235**			**240**	**195**		**200**	**405**	**240**	**195**	**205**			**225**			**215**			
									250															
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**
*03:01:09, 03:01:23, 03:08, 03:32, 03:36N, 03:41, 03:57, 03:89, 03:107-03:108, 03:111, 29:01:01:01-29:02:01:02, 29:02:03-29:02:09, 29:04, 29:06-29:21, 29:23-29:27, 29:29-29:31, 30:26, 31:03-31:04, 31:06, 32:04, 32:30, 32:32																							**23**	
*03:04:01	**1**																	**18**					**23**	
*03:10, 11:04	**1**									**10**													**23**	
*03:17	**1**														**15**								**23**	
*03:24	**1**	**2**																					**23**	
*03:95	**1**																			**20**			**23**	
*03:97, 03:122, 03:135, 11:94	**1**																	**18**						

*11:01:01-11:01:34, 11:03, 11:05-11:07, 11:11-11:13, 11:15:01-11:15:02, 11:20-11:21N, 11:26, 11:29-11:30, 11:32-11:34, 11:36-11:37, 11:41-11:43, 11:46-11:49, 11:52Q, 11:54-11:56, 11:58, 11:60-11:70, 11:72-11:76, 11:79-11:93, 11:95-11:97, 11:99N-11:100, 11:102, 11:104-11:105, 11:107-11:109N	**1**									**10**														
*11:02:01-11:02:03, 11:14, 11:16-11:19, 11:40, 11:45, 11:51, 11:57, 11:71, 11:77-11:78N, 11:101, 11:106, 11:110-11:111										**10**														
*11:08, 11:44	**1**																					**22**		
*11:10	**1**	**2**								**10**														
*11:25	**1**																							
*11:27, 11:39	**1**									**10**								**18**						
*11:98					**5**					**10**														
*11:103	**1**									**10**				**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**	**435**	**195**	**180**	**140**	**230**	**145**	**160**	**150**	**165**	**160**	**205**	**210**	**150**	**145**	**215**	**175**	**200**	**325**	**90**	**165**	**165**	**185**	**375**
PCR product(s)				**225**	**235**			**240**	**195**		**200**	**405**	**240**	**195**	**205**			**225**			**215**			
									250															
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, 24:67																								
*24:141																								
*25:01:01-25:01:03, 25:01:05-25:02, 25:06-25:07, 25:10-25:11, 25:13-25:14, 25:16, 26:01:01-26:01:04, 26:01:07-26:01:14, 26:01:16, 26:01:18-26:06, 26:09-26:10, 26:12-26:13, 26:15, 26:17, 26:21, 26:23-26:26, 26:30-26:34, 26:36-26:39, 26:41-26:42, 26:45-26:46, 26:50-26:53, 26:55-26:63, 26:65-26:66, 26:68-26:71N, 66:03, 66:05, 66:11																	**17**							
*25:01:04, 25:03, 25:15, 26:07:01-26:07:02, 26:19-26:20, 26:35, 26:64, 26:72, 43:01																	**17**							

*25:04, 25:12N, 26:01:05-26:01:06, 26:08, 26:27, 26:48, 26:67																								
*25:05, 26:54																	17							
*25:08, 26:11N, 26:47																	17							
*25:09, 26:01:15, 26:14, 26:28																	17							
*26:01:17																	17							
*26:16																	17							
*26:18													13				17							
*26:22																	17							24
*26:29, 26:49																	17							
*26:40																								
*26:43:01-26:43:02									9															
*29:05										10													23	
*33:18		2																					23	
*33:51					5																			
*34:01:01-34:01:02, 66:01-66:02, 66:04, 66:07-66:08, 66:12-66:14	1																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	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225			215			
									250															
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**
*34:02:01-34:02:02	1	2																					23	
*34:03-34:04, 34:07, 34:09	1	2							?														23	
*34:05	1																17							
*34:06	1								?															
*34:08	1	2							?														23	
*36:01, 36:03, 36:05																						w	23	
*66:06	1								9															
*66:09	1																17							24
*66:10	1																17							
*66:15					5												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**

INTERPRETATION TABLE

HLA-A*68 SSP subtyping

Amplification patterns of the A*68:01 to A*68:85 and the A*69:01 alleles

Well[8]																		
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
110	100	185	200	80	145	220	175	150	165	140	195	285	145	180	195	200	130	Length of spec.
240	185	235	230	250	245													PCR product(s)
1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	Length of int.
																		pos. control[1]
28	453	87	121	102	102	2nd I	453	413	160	413	106	2nd I	2nd I	397	453	98	194	5'-primer(s)[2]
5' -TCg 3'	5' -AAA 3'	5' -ATA 3'	5' -gCT 3'	5' -ACT 3'	5' -ACT 3'	5' -CCT 3'	5' -AAA 3'	5' -CCg 3'	5' -ACT 3'	5' -CCg 3'	5' -CCg 3'	5' -CCT 3'	5' -CCT 3'	5' -gCg 3'	5' -AAA 3'	5' -CTC 3'	5' -CgA 3'	
383	666	413	349	489	414													
5' -ggA 3'	5' -gAA 3'	5' -CCA 3'	5' -CTg 3'	5' -gCA 3'	5' -CAg 3'													
			376															
			5' -gCA 3'															
97	512	282	282	308	308	506	578	524	282	512	259	570	430	538	605	259	282	3'-primer(s)[3]
5' -ggT 3'	5' -ACT 3'	5' -gAC 3'	5' -gAC 3'	5' -TCT 3'	5' -TCT 3'	5' -TgC 3'	5' -Tgg 3'	5' -CAA 3'	5' -gAC 3'	5' -CCT 3'	5' -gTT 3'	5' -CCg 3'	5' -gCg 3'	5' -CCA 3'	5' -gCC 3'	5' -gTT 3'	5' -gAC 3'	
453	808	559	538	317	517		595											
5' -TCT 3'	5' -AgA 3'	5' -CAT 3'	5' -CCA 3'	5' -ggA 3'	5' -CgT 3'		5' -CCg 3'											
				527														
				5' -CCT 3'														
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.
110	100	185	200	80	145	220	175	150	165	140	195	285	145	180	195	200	130	Length of spec.
240	185	235	230	250	245													PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.

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																		***68:06**
																		***68:07**
											36							*68:08:01
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																		***68:10**
																		***68:11N**
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																		***68:17**
																		*68:18N
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25	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**Well No.**
110	**100**	**185**	**200**	**80**	**145**	**220**	**175**	**150**	**165**	**140**	**195**	**285**	**145**	**180**	**195**	**200**	**130**	**Length of spec.**
240	**185**	**235**	**230**	**250**	**245**													**PCR product(s)**
25	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**Well No.**
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25	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**Well No.**
110	**100**	**185**	**200**	**80**	**145**	**220**	**175**	**150**	**165**	**140**	**195**	**285**	**145**	**180**	**195**	**200**	**130**	**Length of spec.**
240	**185**	**235**	**230**	**250**	**245**													**PCR product(s)**
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																		*01:01:01:01-01:04N, 01:07-01:11N, 01:14-01:18N, 01:21-01:24, 01:26-01:29, 01:31N-01:33, 01:35-01:50, 01:52N, 01:54-01:64, 01:67-01:71, 01:74-01:78, 01:80-01:97, 01:99, 01:101, 01:103-01:104

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25	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**Well No.**
110	**100**	**185**	**200**	**80**	**145**	**220**	**175**	**150**	**165**	**140**	**195**	**285**	**145**	**180**	**195**	**200**	**130**	**Length of spec.**
240	**185**	**235**	**230**	**250**	**245**													**PCR product(s)**
25	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**Well No.**
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110	**100**	**185**	**200**	**80**	**145**	**220**	**175**	**150**	**165**	**140**	**195**	**285**	**145**	**180**	**195**	**200**	**130**	**Length of spec.**
240	**185**	**235**	**230**	**250**	**245**													**PCR product(s)**
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110	**100**	**185**	**200**	**80**	**145**	**220**	**175**	**150**	**165**	**140**	**195**	**285**	**145**	**180**	**195**	**200**	**130**	**Length of spec.**
240	**185**	**235**	**230**	**250**	**245**													**PCR product(s)**
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110	**100**	**185**	**200**	**80**	**145**	**220**	**175**	**150**	**165**	**140**	**195**	**285**	**145**	**180**	**195**	**200**	**130**	**Length of spec.**
240	**185**	**235**	**230**	**250**	**245**													**PCR product(s)**
25	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**Well No.**
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					30	31					36							*66:09
					30	31					36	37						*66:10
					30	31					36							*66:15
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