

INTERPRETATION TABLE

HLA-B*13 SSP subtyping

Amplification patterns of the B*13:01 to *13:46 alleles

	Well ⁷											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	140	95	245	245	125	105	190	185	130	105	280	90
PCR product(s)					150			225	230	210		
Length of int. pos. control ¹	800	800	800	1070	800	1070	1070	1070	1070	800	800	1070
5'-primer(s) ²	209	506	355	357	420	357	412	106	357	142	419	369
	5'-ggC ^{3'}	5'-gCT ^{3'}	5'-TCA ^{3'}	5'-Tgg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-ATA ^{3'}	5'-CCA ^{3'}	5'-Tgg ^{3'}	5'-TCA ^{3'}	5'-gTC ^{3'}	5'-TAC ^{3'}
								357		412		
								5'-Tgg ^{3'}		5'-ATA ^{3'}		
3'-primer(s) ³	309	559	559	559	506	419	559	251	445	311	3 rd	420
	5'-gTg ^{3'}	5'-CTC ^{3'}	5'-CTC ^{3'}	5'-CTC ^{3'}	5'-TgC ^{3'}	5'-Cgg ^{3'}	5'-CgT ^{3'}	5'-CCC ^{3'}	5'-ggA ^{3'}	5'-ggT ^{3'}	5'-TAT ^{3'}	5'-gCT ^{3'}
					527	419		539	548	477		
					5'-CCT ^{3'}	5'-CgA ^{3'}		5'-TCC ^{3'}	5'-ggC ^{3'}	5'-gCg ^{3'}		
					538							
					5'-CCA ^{3'}							
					559							
					5'-Cag ^{3'}							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-B allele ⁴												
*13:01:01-13:01:06	1	2	3									
*13:02:01-13:02:10	1	2		4								
*13:03	1				5							
*13:04	1					6					11	
*13:06	1						7					
*13:07N	1	2	3					8				
*13:08Q	1	2		4					9			
*13:09		2		4						10		
*13:10	1	2									11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	140	95	245	245	125	105	190	185	130	105	280	90
PCR product(s)					150			225	230	210		

					180								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	
*13:11	1	2										12	
*13:12	1	2	3										
*13:13	1	2	3										
*13:14	1	2		4									
*13:15, 13:33 ⁵	1	2		4									
*13:16	1	2		4	5								
*13:17	1	2	3										
*13:18	1	2		4				8					
*13:19	1	2		4									
*13:20	1	2	3		5								
*13:21	1	2	3							10			
*13:22:01	1		3		5								
*13:22:02	1		3		5								
*13:23	1	2	3										
*13:25	1	2	3										
*13:26	1	2	3								11		
*13:27	1	2		4									
*13:28	1	2	3										
*13:29	1	2	3										
*13:30	1	2		4									
*13:31	1	2		4	5			8					
*13:32	1	2		4									
*13:34, 13:38 ⁶	1	2		4									
*13:35	1	2		4									
*13:36	1	2	3										
*13:37	1	2		4									
*13:39		2	3							10			
*13:40	1	2		4									
*13:41	1	2		4	5			8					
*13:42	1	2		4					9				
*13:43	1	2	3										
*13:44	1	2		4									
*13:45	1			4	5								
*13:46	1					6							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	
Length of spec.	140	95	245	245	125	105	190	185	130	105	280	90	
PCR product(s)					150			225	230	210			
					180								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	

*07:02:01-07:04, 07:07-07:08, 07:10, 07:13, 07:15-07:16, 07:19-07:24, 07:26-07:31, 07:33, 07:35-07:39, 07:41-07:47, 07:49N-07:50, 07:52, 07:54-07:68:02, 07:70-07:77, 07:79, 07:81-07:83, 07:85-07:89, 07:91-07:96:02, 07:98-07:104, 07:106-07:111N, 07:113-07:122, 07:124-07:130, 14:01:01-14:12, 14:14-14:24, 15:09-15:10:02, 15:17:01:01-15:17:02, 15:30, 15:37, 15:45, 15:58, 15:63, 15:77, 15:90, 15:99, 15:133, 15:168, 15:177, 15:196, 15:208, 15:216, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:21, 27:25, 27:54, 27:63, 27:66N, 27:68-27:69, 27:79, 35:44, 35:96, 37:07, 37:13, 44:76, 44:79, 48:08, 49:01:01-49:01:03, 49:03, 49:06, 49:08, 49:10, 49:12-49:17, 51:01:01-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:04, 51:06:01-51:07:02, 51:11N-51:12, 51:14, 51:17-51:18, 51:22-51:24:01, 51:26-51:28, 51:30, 51:32-51:33, 51:35, 51:39, 51:41N, 51:43, 51:46, 51:48-51:52, 51:55-51:60, 51:64-51:72, 51:75-51:80, 51:83-51:91, 51:94-51:96, 51:98N-51:100, 51:102-51:105, 51:107, 51:109-51:113, 52:01:01:01-52:02, 52:04-52:07, 52:09, 52:11-52:13, 52:15-52:18, 52:20, 52:22-52:23, 56:05:01-56:06, 56:21, 57:09, 58:08, 78:01-78:03, 78:05-78:06												
*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 15:150, 27:18, 27:20, 27:24, 27:40, 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:32, 40:98, 48:05, 48:15, 50:01:01-50:02, 50:04-50:08, 50:10-50:13, 51:01:09, 51:01:21, 51:01:25, 51:24:02-51:24:04										10		
*07:09, 07:11, 07:17, 15:01:01:01-15:01:04, 15:01:06-15:03:03, 15:06-15:08, 15:11:01-15:15, 15:18:01-15:18:02, 15:18:04-15:19, 15:21, 15:23-15:29, 15:32-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47, 15:49-15:50, 15:54, 15:56-15:57, 15:60-15:62, 15:64-15:66, 15:68-15:72, 15:74, 15:76, 15:78:01-15:82, 15:85, 15:87, 15:89, 15:92-15:94N, 15:96-15:98, 15:101-15:104, 15:106, 15:108-15:110, 15:112-15:113, 15:115-15:122, 15:125-15:129, 15:131-15:132, 15:134-15:135, 15:138-15:144, 15:146-15:149N, 15:152-15:154, 15:156-15:161, 15:163-15:167, 15:169-15:175, 15:178, 15:180-15:182N, 15:184, 15:187, 15:189-15:195, 15:197-15:199, 15:201-15:207, 15:209N-15:211, 15:213-15:215, 15:217, 15:219, 15:221, 15:223, 18:15, 18:19, 18:21, 18:30, 18:57, 35:11:01-35:11:02, 35:14:01-35:14:02, 35:21, 35:43:01-35:43:02, 35:58, 35:67, 35:79, 35:86, 35:99, 35:102, 35:117-35:118, 35:135, 46:01:01-46:05, 46:07N-46:08, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:27, 48:25, 51:45, 53:06, 53:08:01-53:08:02, 54:06, 55:14, 56:03, 56:32, 57:22, 58:06, 58:19											11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	140	95	245	245	125	105	190	185	130	105	280	90
PCR product(s)					150			225	230	210		
					180							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:12, 07:14, 07:18:01-07:18:02			3									
*07:34, 08:20, 40:51							7			10		

*07:78				4	5			8	10			
*07:84, 51:82				4				8				
*08:01:01, 08:01:03-08:01:12, 08:01:14-08:05, 08:08N-08:10, 08:12:01-08:13, 08:15-08:19N, 08:22-08:24, 08:26-08:27, 08:29-08:34, 08:36, 08:38-08:39, 08:41-08:48, 08:50-08:52, 08:54-08:70, 15:83, 18:26, 18:61, 35:87, 37:12, 38:01:01, 38:01:03-38:01:05, 38:05-38:07, 38:09, 38:11, 38:13-38:14, 38:16-38:17, 38:19-38:21, 38:24-38:28, 39:01:01:01-39:01:01:02L, 39:01:03-39:05:02, 39:08-39:14, 39:16, 39:19:01-39:20, 39:22-39:24:02, 39:26-39:28, 39:30-39:31, 39:37, 39:39, 39:41-39:42, 39:44-39:46, 39:48, 39:51-39:54, 39:56, 39:58-39:61, 39:63, 41:05, 41:12, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 54:04, 55:20, 55:50, 56:12, 58:20, 59:02, 67:01:01-67:02							7					
*08:01:02, 08:01:13, 15:188, 40:39, 40:163, 41:01-41:03:02, 41:06-41:09, 41:11, 41:13-41:16, 54:11, 55:04, 55:49, 67:03, C*15:24							7		10			
*08:28, 08:37, 15:05:01-15:05:02, 15:20, 15:31, 15:51-15:52, 15:55, 15:75, 15:84, 15:88, 15:91, 15:105, 15:107, 15:111N, 15:114, 15:123-15:124, 15:136, 15:145, 15:151, 15:176, 15:179, 15:185-15:186, 15:200, 15:218Q, 18:01:01-18:08, 18:10-18:14, 18:17N-18:18, 18:20, 18:22-18:25, 18:27-18:29, 18:31-18:40, 18:42-18:47, 18:49-18:56, 18:58-18:60, 18:62-18:63, 27:41, 35:01:01:01-35:01:26, 35:05:01-35:05:02, 35:07-35:08:04, 35:10, 35:16-35:17, 35:19-35:20:02, 35:23-35:30, 35:32, 35:35, 35:40N-35:42:02, 35:45, 35:48-35:54, 35:57, 35:61-35:62, 35:64, 35:66, 35:68:01-35:69, 35:71-35:72, 35:76-35:78, 35:80, 35:82, 35:89, 35:91-35:94, 35:97, 35:100-35:101:02, 35:103-35:105, 35:107-35:108:02, 35:110-35:116, 35:119-35:126, 35:130N-35:134N, 35:137-35:148, 35:158-35:159, 35:161, 39:07, 39:43, 42:09, 44:17, 44:43:01-44:43:02, 46:06, 46:09, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25-46:26, 48:02:01-48:02:02, 48:14, 48:23, 53:01:01-53:03, 53:05, 53:09-53:18, 53:20-53:24, 54:09, 56:09, 56:18, 56:31, 57:01:01-57:01:11, 57:06, 57:08, 57:10-57:11, 57:14-57:16, 57:18-57:21, 57:23-57:24, 57:26-57:27, 57:29-57:31, 57:33-57:38, 57:40-57:41, 57:43-57:44, 58:01:01-58:02, 58:04-58:05, 58:07, 58:09-58:18, 58:21-58:26, 58:29-58:33										11		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	140	95	245	245	125	105	190	185	130	105	280	90
PCR product(s)					150			225	230	210		
					180							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*08:35							7				11	
*08:53, 14:13, 38:10, 39:18, 39:35-39:36, 51:21, 51:36, 51:101, 55:17, 55:28, 78:07							7					
*15:04						6		8			11	
*15:16:01-15:16:02, 15:67, 15:95, 49:04-49:05, 51:37, 51:63						6					11	
*15:18:03											11	12

*15:42, 55:01:01-55:01:07, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45					5		7						
*15:53, 15:183, 15:212, 40:158, 46:10										10	11		
*15:73					5								12
*15:86, 35:60, 46:18, 54:01:01-54:02, 54:05N, 54:07-54:08N, 54:12-54:13, 54:17-54:19, 54:21, 54:23-54:24, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:18-55:19, 55:26, 55:30, 55:34-55:35, 55:39, 55:42-55:43, 55:47-55:48, 56:23, 59:01:01:01-59:01:01:02, 59:05					5		7						
*15:137						6		8					
*15:155, 15:222, 35:37, 51:97, 54:14, 55:23						6					11		
*15:224, 56:10					5		7						12
*18:09												11	
*18:48, 35:47												11	
*27:01, 37:10, 38:08, 38:29, 44:15, 44:55, 44:103, 44:130													
*27:07-27:08, 27:11-27:12, 27:26-27:27, 27:33, 27:42-27:44, 35:09:02, 35:18, 35:31, 35:84, 35:150, 40:01:01-40:02:12, 40:07, 40:09-40:14:03, 40:18-40:19, 40:21-40:22N, 40:24, 40:27:01-40:27:02, 40:29, 40:31, 40:33, 40:35-40:37, 40:40, 40:42-40:43, 40:45-40:46, 40:49-40:50, 40:54-40:58, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:82, 40:84-40:85, 40:87:01-40:90, 40:92, 40:94, 40:97, 40:99-40:102, 40:104, 40:107-40:108, 40:111-40:119, 40:121-40:126, 40:128, 40:130, 40:132-40:136, 40:138-40:147, 40:149-40:156, 40:164, 41:04, 41:10, 41:17-41:18, 44:09, 44:31, 44:46, 44:75, 44:90, 44:129, 45:01, 45:03-45:08, 45:11-45:13, 47:02, 48:01:01-48:01:03, 48:03:01-48:04, 48:06-48:07, 48:09-48:11, 48:13, 48:16, 48:18-48:22, 48:24, 51:81, 55:08, 58:27, 81:01-81:05										10			
*27:14, 51:31				4									
*27:19, 27:30, 35:33, 44:16, 44:21, 44:64:01-44:64:02, 44:124, 48:17, C*03:34, C*15:42			3										
*35:15, 57:25			3									11	
*35:46												11	
*35:63, 35:90, 40:03, 40:20, 40:38, 40:52, 40:60, 40:105											10	11	
*35:88, 40:04, 40:30, 40:34, 40:64, 40:120, 40:129, 40:137, 40:160			3								10		
*35:154, 44:12													
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	
Length of spec.	140	95	245	245	125	105	190	185	130	105	280	90	
PCR product(s)					150			225	230	210			
					180								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	
*35:157							w						
*38:02:01-38:04, 38:15, 38:18, 38:23							7						
*38:12							7						
*39:06:01-39:06:02, 39:34, 39:57, 39:62, 55:13, 59:03						6	7						
*39:17, 02:47, C*02:06													12
*39:33						6		8					
*39:50				4		6							

C*17:08													
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	

INTERPRETATION TABLE

HLA-B*13 SSP subtyping

Amplification patterns of the B*13:01 to *13:46 alleles

Well ⁷													
13	14	15	16	17	18	19	20	21	22	23	24		
90	130	105	90	225	155	195	105	120	135	130	170	Length of spec.	
180		250	205		205	340		180	175	200		PCR product(s)	
					275					275			
800	1070	800	1070	1070	1070	1070	1070	1070	800	1070	1070	Length of int. pos. control ¹	
268	419	97	144	368	209	406	193	160	209	357	527	5'-primer(s) ²	
5'-Agg ^{3'}	5'-gTA ^{3'}	5'-TCC ^{3'}	5'-gCA ^{3'}	5'-gTT ^{3'}	5'-ggC ^{3'}	5'-gCA ^{3'}	5'-CCA ^{3'}	5'-ACT ^{3'}	5'-ggC ^{3'}	5'-Tgg ^{3'}	5'-TgA ^{3'}		
420		103	420	385	357	712		229	520				
5'-TTA ^{3'}		5'-CCT ^{3'}	5'-TTA ^{3'}	5'-ggT ^{3'}	5'-Tgg ^{3'}	5'-TCT ^{3'}		5'-TAA ^{3'}	5'-AgA ^{3'}				
		420						520					
		5'-TTA ^{3'}						5'-AgA ^{3'}					
317	506	309	193	559	323	559	259	309	302	445	3 rd	3'-primer(s) ³	
5'-ggA ^{3'}	5'-TgA ^{3'}	5'-gTg ^{3'}	5'-CgT ^{3'}	5'-CTC ^{3'}	5'-AgC ^{3'}	5'-CTC ^{3'}	5'-gTT ^{3'}	5'-gTg ^{3'}	5'-ggC ^{3'}	5'-ggA ^{3'}	5'-TAT ^{3'}		
559		486	583		523	916		3 rd	3 rd	515			
5'-CCC ^{3'}		5'-gCC ^{3'}	5'-gTg ^{3'}		5'-ACC ^{3'}	5'-gAC ^{3'}		5'-TAT ^{3'}	5'-TAT ^{3'}	5'-CCC ^{3'}			
					593					593			
					5'-CgC ^{3'}					5'-CgC ^{3'}			
13	14	15	16	17	18	19	20	21	22	23	24	Well No.	
												HLA-B allele ⁴	
												*13:01:01-13:01:06	
												*13:02:01-13:02:10	
												*13:03	
												*13:04	
												*13:06	
												*13:07N	
												*13:08Q	
												*13:09	
												*13:10	
13	14	15	16	17	18	19	20	21	22	23	24	Well No.	
90	130	105	90	225	155	195	105	120	135	130	170	Length of spec.	
180		250	205		205	340		180	175	200		PCR product(s)	

				275						275			
13	14	15	16	17	18	19	20	21	22	23	24	Well No.	
												*13:11	
13												*13:12	
		14										*13:13	
				15								*13:14	
				16						24		*13:15, 13:33 ⁵	
				16								*13:16	
13												*13:17	
												*13:18	
										24		*13:19	
		14										*13:20	
				15								*13:21	
												*13:22:01	
		15										*13:22:02	
										22		*13:23	
												*13:25	
				17								*13:26	
						18						*13:27	
								21				*13:28	
								21				*13:29	
										24		*13:30	
				18								*13:31	
						19						*13:32	
14												*13:34, 13:38 ⁶	
												*13:35	
						20						*13:36	
										23		*13:37	
												*13:39	
								21		22		*13:40	
												*13:41	
										23		*13:42	
				17								*13:43	
						18				23		*13:44	
												*13:45	
												*13:46	
13	14	15	16	17	18	19	20	21	22	23	24	Well No.	
90	130	105	90	225	155	195	105	120	135	130	170	Length of spec.	
180		250	205		205	340		180	175	200		PCR product(s)	
						275						275	
13	14	15	16	17	18	19	20	21	22	23	24	Well No.	

													24	*07:02:01-07:04, 07:07-07:08, 07:10, 07:13, 07:15-07:16, 07:19-07:24, 07:26-07:31, 07:33, 07:35-07:39, 07:41-07:47, 07:49N-07:50, 07:52, 07:54-07:68:02, 07:70-07:77, 07:79, 07:81-07:83, 07:85-07:89, 07:91-07:96:02, 07:98-07:104, 07:106-07:111N, 07:113-07:122, 07:124-07:130, 14:01:01-14:12, 14:14-14:24, 15:09-15:10:02, 15:17:01:01-15:17:02, 15:30, 15:37, 15:45, 15:58, 15:63, 15:77, 15:90, 15:99, 15:133, 15:168, 15:177, 15:196, 15:208, 15:216, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:21, 27:25, 27:54, 27:63, 27:66N, 27:68-27:69, 27:79, 35:44, 35:96, 37:07, 37:13, 44:76, 44:79, 48:08, 49:01:01-49:01:03, 49:03, 49:06, 49:08, 49:10, 49:12-49:17, 51:01:01-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:04, 51:06:01-51:07:02, 51:11N-51:12, 51:14, 51:17-51:18, 51:22-51:24:01, 51:26-51:28, 51:30, 51:32-51:33, 51:35, 51:39, 51:41N, 51:43, 51:46, 51:48-51:52, 51:55-51:60, 51:64-51:72, 51:75-51:80, 51:83-51:91, 51:94-51:96, 51:98N-51:100, 51:102-51:105, 51:107, 51:109-51:113, 52:01:01:01-52:02, 52:04-52:07, 52:09, 52:11-52:13, 52:15-52:18, 52:20, 52:22-52:23, 56:05:01-56:06, 56:21, 57:09, 58:08, 78:01-78:03, 78:05-78:06
													24	*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 15:150, 27:18, 27:20, 27:24, 27:40, 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:32, 40:98, 48:05, 48:15, 50:01:01-50:02, 50:04-50:08, 50:10-50:13, 51:01:09, 51:01:21, 51:01:25, 51:24:02-51:24:04
													24	*07:09, 07:11, 07:17, 15:01:01:01-15:01:04, 15:01:06-15:03:03, 15:06-15:08, 15:11:01-15:15, 15:18:01-15:18:02, 15:18:04-15:19, 15:21, 15:23-15:29, 15:32-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47, 15:49-15:50, 15:54, 15:56-15:57, 15:60-15:62, 15:64-15:66, 15:68-15:72, 15:74, 15:76, 15:78:01-15:82, 15:85, 15:87, 15:89, 15:92-15:94N, 15:96-15:98, 15:101-15:104, 15:106, 15:108-15:110, 15:112-15:113, 15:115-15:122, 15:125-15:129, 15:131-15:132, 15:134-15:135, 15:138-15:144, 15:146-15:149N, 15:152-15:154, 15:156-15:161, 15:163-15:167, 15:169-15:175, 15:178, 15:180-15:182N, 15:184, 15:187, 15:189-15:195, 15:197-15:199, 15:201-15:207, 15:209N-15:211, 15:213-15:215, 15:217, 15:219, 15:221, 15:223, 18:15, 18:19, 18:21, 18:30, 18:57, 35:11:01-35:11:02, 35:14:01-35:14:02, 35:21, 35:43:01-35:43:02, 35:58, 35:67, 35:79, 35:86, 35:99, 35:102, 35:117-35:118, 35:135, 46:01:01-46:05, 46:07N-46:08, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:27, 48:25, 51:45, 53:06, 53:08:01-53:08:02, 54:06, 55:14, 56:03, 56:32, 57:22, 58:06, 58:19
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180		250	205		205	340		180	175	200		PCR product(s)		
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													24	*07:78
													24	*07:84, 51:82
														*08:01:01, 08:01:03-08:01:12, 08:01:14-08:05, 08:08N-08:10, 08:12:01-08:13, 08:15-08:19N, 08:22-08:24, 08:26-08:27, 08:29-08:34, 08:36, 08:38-08:39, 08:41-08:48, 08:50-08:52, 08:54-08:70, 15:83, 18:26, 18:61, 35:87, 37:12, 38:01:01, 38:01:03-38:01:05, 38:05-38:07, 38:09, 38:11, 38:13-38:14, 38:16-38:17, 38:19-38:21, 38:24-38:28, 39:01:01:01-39:01:01:02L, 39:01:03-39:05:02, 39:08-39:14, 39:16, 39:19:01-39:20, 39:22-39:24:02, 39:26-39:28, 39:30-39:31, 39:37, 39:39, 39:41-39:42, 39:44-39:46, 39:48, 39:51-39:54, 39:56, 39:58-39:61, 39:63, 41:05, 41:12, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 54:04, 55:20, 55:50, 56:12, 58:20, 59:02, 67:01:01-67:02
														*08:01:02, 08:01:13, 15:188, 40:39, 40:163, 41:01-41:03:02, 41:06-41:09, 41:11, 41:13-41:16, 54:11, 55:04, 55:49, 67:03, C*15:24
														*08:28, 08:37, 15:05:01-15:05:02, 15:20, 15:31, 15:51-15:52, 15:55, 15:75, 15:84, 15:88, 15:91, 15:105, 15:107, 15:111N, 15:114, 15:123-15:124, 15:136, 15:145, 15:151, 15:176, 15:179, 15:185-15:186, 15:200, 15:218Q, 18:01:01-18:08, 18:10-18:14, 18:17N-18:18, 18:20, 18:22-18:25, 18:27-18:29, 18:31-18:40, 18:42-18:47, 18:49-18:56, 18:58-18:60, 18:62-18:63, 27:41, 35:01:01:01-35:01:26, 35:05:01-35:05:02, 35:07-35:08:04, 35:10, 35:16-35:17, 35:19-35:20:02, 35:23-35:30, 35:32, 35:35, 35:40N-35:42:02, 35:45, 35:48-35:54, 35:57, 35:61-35:62, 35:64, 35:66, 35:68:01-35:69, 35:71-35:72, 35:76-35:78, 35:80, 35:82, 35:89, 35:91-35:94, 35:97, 35:100-35:101:02, 35:103-35:105, 35:107-35:108:02, 35:110-35:116, 35:119-35:126, 35:130N-35:134N, 35:137-35:148, 35:158-35:159, 35:161, 39:07, 39:43, 42:09, 44:17, 44:43:01-44:43:02, 46:06, 46:09, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25-46:26, 48:02:01-48:02:02, 48:14, 48:23, 53:01:01-53:03, 53:05, 53:09-53:18, 53:20-53:24, 54:09, 56:09, 56:18, 56:31, 57:01:01-57:01:11, 57:06, 57:08, 57:10-57:11, 57:14-57:16, 57:18-57:21, 57:23-57:24, 57:26-57:27, 57:29-57:31, 57:33-57:38, 57:40-57:41, 57:43-57:44, 58:01:01-58:02, 58:04-58:05, 58:07, 58:09-58:18, 58:21-58:26, 58:29-58:33
13	14	15	16	17	18	19	20	21	22	23	24	Well No.		
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180		250	205		205	340		180	175	200		PCR product(s)		
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											24	*15:04		
											24	*15:16:01-15:16:02, 15:67, 15:95, 49:04-49:05, 51:37, 51:63		
											24	*15:18:03		

