

INTERPRETATION TABLE

HLA-B*54 SSP subtyping

Amplification patterns of the B*54:01 to 54:26 alleles

	Well ⁶											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	215	105	160	160	180	105	140	280	200	225	185	150
PCR product(s)						235						
Length of int. pos. control ¹	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer ²	5'-Cag ³ 1 st I	5'-Tgg ³ 357	5'-CCA ³ 106	5'-CCT ³ 103	5'-TTA ³ 420	5'-Tgg ³ 357	5'-CCA ³ 106	5'-gTC ³ 419	5'-TAC ³ 369	5'-Tgg ³ 357	5'-Tgg ³ 357	5'-Agg ³ 206
				5'-CCT ³ 103								
				5'-gTT ³ 110								
3'-primer(s) ³	5'-CCg ³ 175	5'-gCT ³ 420	5'-CAC ³ 226	5'-CAC ³ 226	5'-CTA ³ 553	5'-CgT ³ 419	5'-TCC ³ 207	5'-TAT ³ 3 rd I	5'-CCA ³ 527	5'-TCC ³ 539	5'-ggA ³ 499	5'-ggA ³ 317
					5'-Cag ³ 559	5'-CTA ³ 553			5'-CCA ³ 527			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-B allele ⁴												
*54:01:01, 54:25-54:26	1	2	3									
*54:01:02		2	3									
*54:02	1	2		4								
*54:03	1	2	3		5							
*54:04	1		3			6						
*54:05N	1	2					7					
*54:06	1		3					8				
*54:07	1	2	3									
*54:08N	1	2	3		5	6						
*54:09	1		3					8	9			
*54:10	1	2	3							10		
*54:11	1		3			6					11	
*54:12	1	2	3									12
*54:13	1	2	3									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Length of spec.	215	105	160	160	180	105	140	280	200	225	185	150
PCR product(s)						235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*54:14	1		3					8				
*54:15	1		3			6						
*54:16	1	2	3									
*54:17, 54:18 ⁵	1	2	3									
*54:19	1	2	3	4								
*54:20	1	2	3							10		
*54:21	1	2	3									
*54:22	1	2	3								11	
*54:23	1	2	3									
*54:24	1	2	3									
*07:02:19, 37:01:04	1											
*07:09, 07:11, 07:17, 08:28, 08:35, 08:37, 13:26, 15:01:01:01-15:01:03, 15:01:06-15:03:03, 15:06-15:08, 15:11:01-15:15, 15:18:01-15:21, 15:23-15:29, 15:32-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47:02, 15:49-15:51, 15:53-15:54, 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, 15:84-15:85, 15:87- 15:89, 15:92-15:94N, 15:96-15:98, 15:101-15:106, 15:108- 15:113, 15:115-15:122, 15:125-15:129, 15:131-15:132, 15:134-15:135, 15:138-15:149N, 15:152-15:154, 15:156- 15:161, 15:163-15:167, 15:169-15:176, 15:178-15:184, 15:187, 15:189-15:195, 15:197-15:207, 15:209N-15:215, 15:217-15:221, 15:223, 15:225-15:228, 15:231-15:232, 15:234, 15:236, 15:238-15:242, 15:244, 18:01:06, 18:02, 18:08, 18:15, 18:18-18:19, 18:21-18:22, 18:27, 18:30, 18:52, 18:56-18:57, 27:41, 35:01:01:01-35:01:31, 35:07- 35:08:05. 35:10-35:11:02. 35:14:01-35:17. 35:19-35:21. 35:23-35:30, 35:35, 35:40N-35:43, 35:45-35:50, 35:52- 35:54, 35:57-35:58, 35:61-35:64, 35:67-35:68:01, 35:69, 35:71, 35:76-35:80, 35:82, 35:86, 35:90-35:94, 35:99- 35:105, 35:107-35:108:02, 35:110-35:113, 35:115-35:126, 35:130N-35:135, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N-35:178, 35:180, 35:185-35:192, 35:194, 35:196-35:197, 35:200, 40:59-40:60, 40:158, 42:09, 44:17, 44:43:01-44:43:02, 44:144, 46:01:01-46:05, 46:07N-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:25, 46:27-46:30, 48:02:01-48:02:02, 48:25, 51:45, 51:97, 53:01:01-53:03, 53:05-53:06, 53:08:01- 53:13, 53:15-53:18, 53:20-53:27, 55:14, 55:32, 56:03, 56:09, 56:32, 57:01:01-57:01:13, 57:06, 57:08, 57:10- 57:11, 57:13-57:16, 57:18-57:27, 57:29-57:31, 57:33- 57:38, 57:40-57:41, 57:43-57:45, 57:47-57:56, 58:01:01- 58:01:07, 58:01:09-58:02, 58:04-58:07, 58:09-58:15, 58:17N, 58:19, 58:21-58:26, 58:29-58:33, 58:35-58:36								8				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	215	105	160	160	180	105	140	280	200	225	185	150

PCR product(s)						235							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	
*07:13, 07:110, C*03:137				4									
*07:48, 08:13, 08:25, 08:55, 13:11, 15:48, 15:188, 15:224, 18:26, 18:41, 18:61, 27:07:01-27:07:02, 27:11, 27:32-27:34, 27:43, 27:70, 35:22, 35:31, 35:151, 35:199, 38:01:01-38:09, 38:12-38:19, 38:21, 38:23, 38:25-38:29, 38:31, 38:33-38:40, 39:01:01:01-39:01:01:02L, 39:01:03-39:05:02, 39:10:01-39:10:02, 39:12-39:17, 39:19:01-39:20, 39:22-39:23, 39:25N-39:32, 39:37-39:41, 39:44-39:49, 39:51-39:56, 39:58-39:59, 39:61, 39:63, 39:65-39:73, 40:01:01-40:01:03, 40:01:05-40:01:11, 40:01:13-40:02:08, 40:02:10-40:02:15, 40:07-40:11:01, 40:12-40:14:03, 40:18-40:19, 40:21-40:22N, 40:24-40:25, 40:27:01-40:27:02, 40:29, 40:31, 40:33, 40:35-40:37, 40:39-40:40, 40:42-40:43, 40:45-40:50, 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, 40:87:01-40:92, 40:97, 40:99, 40:101-40:102, 40:104, 40:106-40:108, 40:111-40:119, 40:121-40:123, 40:124:02, 40:126, 40:128, 40:130, 40:132-40:135, 40:138-40:142N, 40:144N-40:147, 40:150-40:157, 40:163-40:164, 40:166, 40:168-40:172, 40:175-40:176, 40:178-40:182, 40:184-40:189, 40:191-40:193, 44:31, 44:54, 44:65, 44:82, 44:135, 48:01:01-48:01:03, 48:03:01, 48:04, 48:06-48:07, 48:09-48:13, 48:16, 48:18, 48:20, 48:22, 48:27, 51:81, 55:04, 55:08, 55:49, 55:51, 56:10, 58:20, 58:27, 67:01:01-67:01:02, 67:03, 81:01-81:05, C*02:03									9				
*07:78, 55:09, 55:52		2								10			
*07:84						6				10			
*08:09, 08:84, 15:83, 27:14, 27:81, 40:06:01:01-40:06:05, 40:53, 40:70, 40:75, 40:83, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:162, 40:165, 40:167, 40:177, 40:190, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20, 42:04, 51:08-51:10, 51:19-51:20, 51:31, 51:36, 51:40, 51:44N, 51:72-51:73, 51:87, 51:91, 51:93, 51:108, 51:115, 51:122, 52:03, 52:10:01-52:10:02, 52:19, 55:20, 56:15, 59:02, 78:04						6							
*08:40, 48:24									w				
*13:02:01-13:02:12, 13:08Q-13:09, 13:14-13:15, 13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:49N, 13:53-13:54, 35:60, 45:03, 45:08, 45:10, 46:18, 55:02:01-55:02:06, 55:07, 55:12, 55:16, 55:18-55:19, 55:22, 55:26, 55:30, 55:34-55:35, 55:41, 55:43, 55:47-55:48, 55:50, 55:56, 56:19N, 56:23, 59:01:01:01-59:01:01:02, 59:05		2											
*13:03, 44:15, 44:18, 45:01, 45:04-45:07, 45:11-45:14, 46:11, 49:01:02, 49:11, 51:15, 56:01:01-56:01:04, 56:07-56:08, 56:13-56:14, 56:17, 56:20:01-56:20:02, 56:24, 56:26-56:30, 56:33-56:35, 59:04		2			5								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	
Length of spec.	215	105	160	160	180	105	140	280	200	225	185	150	

PCR product(s)						235						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*13:04, 15:155, 15:222, 35:37, 40:159, 45:09, 55:23								8				
*13:10, 15:05:01-15:05:02, 15:31, 15:52, 15:55, 15:91, 15:107, 15:114, 15:123-15:124, 15:136, 15:151, 15:185-15:186, 15:235, 18:01:01:01-18:01:05, 18:01:07-18:01:16, 18:03-18:07:02, 18:09-18:12, 18:14, 18:17N, 18:20, 18:23N-18:25, 18:28-18:29, 18:31-18:40, 18:42-18:51, 18:53-18:55, 18:58-18:60, 18:62-18:71, 35:05:01-35:05:02, 35:32:01-35:32:02, 35:51, 35:68:02, 35:72, 35:89, 35:97, 35:114, 39:07, 39:43, 40:03, 40:20, 40:38, 40:52, 40:105, 46:06, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:26, 48:14, 48:23, 53:14, 56:18, 56:31, 58:16, 58:18								8	9			
*13:16, 15:42, 49:07, 55:01:01-55:01:03, 55:01:05-55:01:06, 55:01:08-55:01:09, 55:03, 55:05, 55:11, 55:15, 55:24-55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:45, 55:54-55:55N		2										
*13:18, 13:41, 55:37		2								10		
*13:31, 55:21		2								10		
*13:35, 40:44, 44:20, 44:47, 44:100, 55:27						6						
*13:48, 49:01:01, 49:01:03-49:03, 49:06, 49:08-49:10, 49:12-49:17, 49:19N-49:20, 50:01:01-50:02, 50:04-50:08, 50:10-50:11, 50:13, 50:15, 52:25, 56:25		2			5							
*15:01:04, 58:01:08	1							8				
*15:04								8		10		
*15:16:01-15:16:03, 15:67, 15:95, 49:04-49:05, 51:37								8				
*15:73, 44:10, 44:140, 50:12, 51:62					5							
*15:137										10		
*15:237, 18:13, 35:66								8	w			
*38:11, 67:02				4					9			
*39:33										10		
*40:71, 56:02, 56:04					5				9			
*40:94	1								9			
*40:95, 40:148, 49:18, 50:14, 51:01:01-51:01:17, 51:01:19-51:03, 51:07:01-51:07:02, 51:11N-51:12, 51:14, 51:16-51:18, 51:21-51:24:04, 51:26-51:28, 51:30, 51:32-51:34, 51:38, 51:41N, 51:43, 51:48-51:53, 51:55, 51:57-51:58, 51:60, 51:65-51:71, 51:74-51:80, 51:83-51:86, 51:88-51:89, 51:94-51:96, 51:98N, 51:100-51:105, 51:107, 51:109-51:114, 51:116-51:121, 51:123-51:130, 52:01:01:01-52:02, 52:04-52:09, 52:11, 52:13, 52:15-52:18, 52:20, 52:22-52:23, 52:27-52:29, 55:17, 55:28, 56:05:01-56:06, 56:21, 58:08:01-58:08:02, 78:01:01-78:03,						6						
*40:149									9			
*40:161, 51:29, 51:82, 52:24						6				10		
*44:24, C*05:30			3									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	215	105	160	160	180	105	140	280	200	225	185	150
PCR product(s)						235						

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*50:09, 51:13:01-51:13:02, 51:35, 51:99, 51:131, 52:14, 55:01:04, 55:44, 55:53												
*50:16, 51:106					5							
*51:01:18	1					6						
*51:05, 51:54						6				10		
*51:39			3			6						
*51:61, 52:21						6				10		
*51:63								8				
*51:90, 52:12, 52:26						6						
*51:92												
*55:10		2										
*55:46		2										
*56:16		2			5							
*82:01-82:03					5							
C*07:102				w								
HLA-B allele												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

INTERPRETATION TABLE

HLA-B*54 SSP subtyping

Amplification patterns of the B*54:01 to 54:26 alleles

Well ⁶								
13	14	15	16	17	18	19	20	
135	210	95	210	210	295	230	205	Length of spec.
			340					PCR product(s)
1070	800	1070	1070	1070	1070	1070	1070	Length of int. pos. control ¹
133	106	357	89	357	15	106	106	5'-primer ²
5'-CCg ^{3'}	5'-CCA ^{3'}	5'-Tgg ^{3'}	5'-gAA ^{3'}	5'-Tgg ^{3'}	5'-gCA ^{3'}	5'-CCA ^{3'}	5'-CCA ^{3'}	
			709					
			5'-Agg ^{3'}					
226	275	412	259	527	142	294	272	3'-primer(s) ³
5'-CAC ^{3'}	5'-CCA ^{3'}	5'-gTC ^{3'}	5'-gTT ^{3'}	5'-CCT ^{3'}	5'-TgA ^{3'}	5'-CgC ^{3'}	5'-TgA ^{3'}	
		412	916					
		5'-gTC ^{3'}	5'-gAT ^{3'}					
13	14	15	16	17	18	19	20	Well No.
								HLA-B allele ⁴
								*54:01:01, 54:25-54:26
								*54:01:02
								*54:02
								*54:03
								*54:04
								*54:05N
								*54:06
	14							*54:07
								*54:08N
								*54:09
								*54:10
								*54:11
								*54:12
13								*54:13
13	14	15	16	17	18	19	20	Well No.

135	210	95	210	210	295	230	205	Length of spec.
			340					PCR product(s)
13	14	15	16	17	18	19	20	Well No.
		15						*54:14
		15						*54:15
		15						*54:16
			16					*54:17, 54:18 ⁵
								*54:19
				17				*54:20
					18			*54:21
								*54:22
						19		*54:23
							20	*54:24
								*07:02:19, 37:01:04
								*07:09, 07:11, 07:17, 08:28, 08:35, 08:37, 13:26, 15:01:01:01-15:01:03, 15:01:06-15:03:03, 15:06-15:08, 15:11:01-15:15, 15:18:01-15:21, 15:23-15:29, 15:32-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47:02, 15:49-15:51, 15:53-15:54, 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, 15:84-15:85, 15:87- 15:89, 15:92-15:94N, 15:96-15:98, 15:101-15:106, 15:108- 15:113, 15:115-15:122, 15:125-15:129, 15:131-15:132, 15:134-15:135, 15:138-15:149N, 15:152-15:154, 15:156- 15:161, 15:163-15:167, 15:169-15:176, 15:178-15:184, 15:187, 15:189-15:195, 15:197-15:207, 15:209N-15:215, 15:217-15:221, 15:223, 15:225-15:228, 15:231-15:232, 15:234, 15:236, 15:238-15:242, 15:244, 18:01:06, 18:02, 18:08, 18:15, 18:18-18:19, 18:21-18:22, 18:27, 18:30, 18:52, 18:56-18:57, 27:41, 35:01:01:01-35:01:31, 35:07- 35:08:05, 35:10-35:11:02, 35:14:01-35:17, 35:19-35:21, 35:23-35:30, 35:35, 35:40N-35:43, 35:45-35:50, 35:52- 35:54, 35:57-35:58, 35:61-35:64, 35:67-35:68:01, 35:69, 35:71, 35:76-35:80, 35:82, 35:86, 35:90-35:94, 35:99- 35:105, 35:107-35:108:02, 35:110-35:113, 35:115-35:126, 35:130N-35:135, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N-35:178, 35:180, 35:185-35:192, 35:194, 35:196-35:197, 35:200, 40:59-40:60, 40:158, 42:09, 44:17, 44:43:01-44:43:02, 44:144, 46:01:01-46:05, 46:07N-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:25, 46:27-46:30, 48:02:01-48:02:02, 48:25, 51:45, 51:97, 53:01:01-53:03, 53:05-53:06, 53:08:01- 53:13, 53:15-53:18, 53:20-53:27, 55:14, 55:32, 56:03, 56:09, 56:32, 57:01:01-57:01:13, 57:06, 57:08, 57:10- 57:11, 57:13-57:16, 57:18-57:27, 57:29-57:31, 57:33- 57:38, 57:40-57:41, 57:43-57:45, 57:47-57:56, 58:01:01- 58:01:07, 58:01:09-58:02, 58:04-58:07, 58:09-58:15, 58:17N, 58:19, 58:21-58:26, 58:29-58:33, 58:35-58:36
13	14	15	16	17	18	19	20	Well No.
135	210	95	210	210	295	230	205	Length of spec.

			340						PCR product(s)
13	14	15	16	17	18	19	20		Well No.
									*07:13, 07:110, C*03:137
									*07:48, 08:13, 08:25, 08:55, 13:11, 15:48, 15:188, 15:224, 18:26, 18:41, 18:61, 27:07:01-27:07:02, 27:11, 27:32-27:34, 27:43, 27:70, 35:22, 35:31, 35:151, 35:199, 38:01:01-38:09, 38:12-38:19, 38:21, 38:23, 38:25-38:29, 38:31, 38:33-38:40, 39:01:01:01-39:01:01:02L, 39:01:03-39:05:02, 39:10:01-39:10:02, 39:12-39:17, 39:19:01-39:20, 39:22-39:23, 39:25N-39:32, 39:37-39:41, 39:44-39:49, 39:51-39:56, 39:58-39:59, 39:61, 39:63, 39:65-39:73, 40:01:01-40:01:03, 40:01:05-40:01:11, 40:01:13-40:02:08, 40:02:10-40:02:15, 40:07-40:11:01, 40:12-40:14:03, 40:18-40:19, 40:21-40:22N, 40:24-40:25, 40:27:01-40:27:02, 40:29, 40:31, 40:33, 40:35-40:37, 40:39-40:40, 40:42-40:43, 40:45-40:50, 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, 40:87:01-40:92, 40:97, 40:99, 40:101-40:102, 40:104, 40:106-40:108, 40:111-40:119, 40:121-40:123, 40:124:02, 40:126, 40:128, 40:130, 40:132-40:135, 40:138-40:142N, 40:144N-40:147, 40:150-40:157, 40:163-40:164, 40:166, 40:168-40:172, 40:175-40:176, 40:178-40:182, 40:184-40:189, 40:191-40:193, 44:31, 44:54, 44:65, 44:82, 44:135, 48:01:01-48:01:03, 48:03:01, 48:04, 48:06-48:07, 48:09-48:13, 48:16, 48:18, 48:20, 48:22, 48:27, 51:81, 55:04, 55:08, 55:49, 55:51, 56:10, 58:20, 58:27, 67:01:01-67:01:02, 67:03, 81:01-81:05, C*02:03
				17					*07:78, 55:09, 55:52
		15		17					*07:84
									*08:09, 08:84, 15:83, 27:14, 27:81, 40:06:01:01-40:06:05, 40:53, 40:70, 40:75, 40:83, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:162, 40:165, 40:167, 40:177, 40:190, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20, 42:04, 51:08-51:10, 51:19-51:20, 51:31, 51:36, 51:40, 51:44N, 51:72-51:73, 51:87, 51:91, 51:93, 51:108, 51:115, 51:122, 52:03, 52:10:01-52:10:02, 52:19, 55:20, 56:15, 59:02, 78:04
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135	210	95	210	210	295	230	205		Length of spec.

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13	14	15	16	17	18	19	20		Well No.
135	210	95	210	210	295	230	205		Length of spec.
			340						PCR product(s)

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