

101.512-24/03– including *Taq* pol., IFU-01
 101.512-24u/03u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **74S**

Lot-specific information

Olerup SSP® HLA-B*07

Product number:	101.512-24/03 – including <i>Taq</i> pol. 101.512-24u/03u – without <i>Taq</i> pol.
Lot number:	74S
Expiry date:	2016-March-01
Number of tests:	24 tests – Product No. 101.512-24/24u 3 tests – Product No. 101.512-03/03u
Number of wells per test:	80
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 74S.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-B*07 LOT (92R)

The HLA-B*07 kit is updated for new alleles to enable separation of:

- Confirmed¹ alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

¹As described in section Uniquely Identified Alleles.

The HLA-B*07 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B*07 lot was made (**Lot No. 92R**).

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

Well	5'-primer	3'-primer	rationale
35	Added	-	5'-primer added for the B*07:143 allele.
39	Modified		Modified 5'-primer for increased yield of HLA-specific PCR product.

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41	Removed	Removed	Primer pair removed for the B*07:149 allele, for decreased tendency of primer oligomer formation.
59	-	Added	3'-primer added for the B*07:182N allele.
71	-	Added	3'-primer added for the B*07:181N allele.

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PRODUCT DESCRIPTION

HLA-B*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*07:02 to B*07:190 alleles.

PLATE LAYOUT

Each test consists of 80 PCR reactions in a 96 well cut PCR plate. Wells 81 to 96 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
empty	empty	empty	empty	empty	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty

The 96 well cut PCR plate is marked with 'HLA-B*07' in silver/gray ink.

Well No. 1 is marked with the Lot Number '74S'.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

INTERPRETATION

The interpretation of HLA-B*07 SSP subtypings will be influenced by the B*08, most B*13, several B*14, several B*15, most B*18, most B*27, several B*35, the B*37, the B*38, the B*39, the B*40, the B*41, the B*42, several B*44, the B*45, four B*46, the B*48, the B*49, the B*50, several B*51, three B*52, seven B*53, most B*54, most B*55, most B*56, three B*57, four B*58, five B*59, the B*67, the B*73, five B*78, the B*81 and the B*82 alleles when present on the other haplotype.

In addition, the C*02:23 allele will be amplified by primer mixes 3, 10 and 18, the C*02:60 allele will be amplified by primer mix 31, the C*03:04:36 allele will be amplified by primer mix 9, the C*03:05, C*03:25, C*03:27 and C*03:167 alleles will be amplified by primer mixes 14, 26, 31 and 56, the C*03:124, C*04:49, C*05:15, C*07:262 and C*12:95 alleles will be amplified by primer mix 63, the C*03:137, C*03:182, C*07:102^w and C*12:82 allele will be amplified by primer mixes 5 and 72, the C*03:143 will be amplified by primer mix 14, the C*04:77 allele will be

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amplified by primer mixes 4, 10, 18 and 53, the C*07:38:01-07:38:02 alleles will be amplified by primer mixes 10, 12, 13, 18, 29, 48 and 53, the C*07:294 allele will be amplified by primer mixes 14, 20 and 26, the C*08:08 allele will be amplified by primer mixes 14, 20, 26, 31 and 59 and the C*15:24 allele will be amplified by primer mix 32.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*07 alleles, i.e. **B*07:02 to B*07:190**, recognized by the HLA Nomenclature Committee in April 2013¹ will be amplified by the primers in the HLA-B*07 subtyping kit².

The HLA-B*07 kit enables separation of the confirmed HLA-B*07 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-B*07 alleles is listed below.

The HLA-B*07 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The B*07:42 and 07:118 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 26.

The B*07:49N and 07:169 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 73.

The B*07:61 and 07:149 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 33.

The B*07:63 and 07:143 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

The B*07:94 and 07:135 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 63.

The B*07:102 and 07:106 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 69.

The B*07:107 and 07:181N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 71.

The B*07:121 and 07:126 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 75.

The HLA-B*07 subtyping kit cannot distinguish the following silent mutations: the B*07:02:01-07:02:25, 07:02:27 and 07:02:29-07:02:38, the B*07:05:01-07:05:06, the B*07:18:01-07:18:02, the B*07:22:01-07:22:02 the B*07:56:01-B*07:56:02, the B*07:68:01-07:68:03 or the B*07:96:01-07:96:02 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2013-April-17, release 3.12.0, www.ebi.ac.uk/imgt/hla.

²The B*07:50 and B*48:08 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution primer set.

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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*07:02:01	Confirmed	B*07:10	Confirmed	B*07:57	Confirmed	B*07:104	Unconfirmed	B*07:154	Unconfirmed
B*07:02:02	Confirmed	B*07:11	Unconfirmed	B*07:58	Unconfirmed	B*07:105	Confirmed	B*07:155	Unconfirmed
B*07:02:03	Confirmed	B*07:12	Confirmed	B*07:59	Unconfirmed	B*07:106	Confirmed	B*07:156	Unconfirmed
B*07:02:04	Unconfirmed	B*07:13	Confirmed	B*07:60	Unconfirmed	B*07:107	Unconfirmed	B*07:157	Unconfirmed
B*07:02:05	Unconfirmed	B*07:14	Confirmed	B*07:61	Unconfirmed	B*07:108	Unconfirmed	B*07:158	Unconfirmed
B*07:02:06	Unconfirmed	B*07:15	Confirmed	B*07:62	Confirmed	B*07:109	Confirmed	B*07:159	Unconfirmed
B*07:02:07	Confirmed	B*07:16	Confirmed	B*07:63	Confirmed	B*07:110	Confirmed	B*07:160	Unconfirmed
B*07:02:08	Confirmed	B*07:17	Confirmed	B*07:64	Confirmed	B*07:111N	Confirmed	B*07:161N	Unconfirmed
B*07:02:09	Unconfirmed	B*07:18:01	Unconfirmed	B*07:65	Unconfirmed	B*07:112	Unconfirmed	B*07:162	Unconfirmed
B*07:02:10	Confirmed	B*07:18:02	Confirmed	B*07:66	Unconfirmed	B*07:113	Unconfirmed	B*07:163	Unconfirmed
B*07:02:11	Unconfirmed	B*07:19	Confirmed	B*07:67N	Unconfirmed	B*07:114	Unconfirmed	B*07:164	Unconfirmed
B*07:02:12	Unconfirmed	B*07:20	Confirmed	B*07:68:01	Confirmed	B*07:115	Unconfirmed	B*07:165	Unconfirmed
B*07:02:13	Confirmed	B*07:21	Unconfirmed	B*07:68:02	Confirmed	B*07:116	Unconfirmed	B*07:166	Unconfirmed
B*07:02:14	Confirmed	B*07:22:01	Unconfirmed	B*07:68:03	Confirmed	B*07:117	Unconfirmed	B*07:167N	Unconfirmed
B*07:02:15	Confirmed	B*07:22:02	Confirmed	B*07:69	Confirmed	B*07:118	Unconfirmed	B*07:168	Unconfirmed
B*07:02:16	Unconfirmed	B*07:23	Unconfirmed	B*07:70	Unconfirmed	B*07:119	Confirmed	B*07:169	Unconfirmed
B*07:02:17	Confirmed	B*07:24	Confirmed	B*07:71	Confirmed	B*07:120	Unconfirmed	B*07:170	Unconfirmed
B*07:02:18	Unconfirmed	B*07:25	Unconfirmed	B*07:72	Confirmed	B*07:121	Unconfirmed	B*07:171	Unconfirmed
B*07:02:19	Unconfirmed	B*07:26	Confirmed	B*07:73	Confirmed	B*07:122	Confirmed	B*07:172	Unconfirmed
B*07:02:20	Unconfirmed	B*07:27	Unconfirmed	B*07:74	Confirmed	B*07:123	Unconfirmed	B*07:173	Unconfirmed
B*07:02:21	Confirmed	B*07:28	Unconfirmed	B*07:75	Unconfirmed	B*07:124	Unconfirmed	B*07:174	Unconfirmed
B*07:02:22	Unconfirmed	B*07:29	Unconfirmed	B*07:76	Confirmed	B*07:125	Confirmed	B*07:175	Confirmed
B*07:02:23	Confirmed	B*07:30	Unconfirmed	B*07:77	Confirmed	B*07:126	Confirmed	B*07:176	Unconfirmed
B*07:02:24	Unconfirmed	B*07:31	Confirmed	B*07:78	Unconfirmed	B*07:127	Unconfirmed	B*07:177	Unconfirmed
B*07:02:25	Unconfirmed	B*07:32	Confirmed	B*07:79	Unconfirmed	B*07:128	Unconfirmed	B*07:178	Unconfirmed
B*07:02:26	Unconfirmed	B*07:33	Confirmed	B*07:80	Confirmed	B*07:129	Unconfirmed	B*07:179	Unconfirmed
B*07:02:27	Confirmed	B*07:34	Unconfirmed	B*07:81	Unconfirmed	B*07:130	Unconfirmed	B*07:180	Unconfirmed
B*07:02:28	Confirmed	B*07:35	Unconfirmed	B*07:82	Unconfirmed	B*07:131	Confirmed	B*07:181N	Unconfirmed
B*07:02:29	Unconfirmed	B*07:36	Confirmed	B*07:83	Unconfirmed	B*07:132	Unconfirmed	B*07:182N	Unconfirmed
B*07:02:30	Unconfirmed	B*07:37	Confirmed	B*07:84	Unconfirmed	B*07:133	Unconfirmed	B*07:183	Unconfirmed
B*07:02:31	Unconfirmed	B*07:38	Confirmed	B*07:85	Unconfirmed	B*07:134	Unconfirmed	B*07:184	Unconfirmed
B*07:02:32	Unconfirmed	B*07:39	Unconfirmed	B*07:86	Confirmed	B*07:135N	Unconfirmed	B*07:185	Unconfirmed
B*07:02:33	Unconfirmed	B*07:40	Unconfirmed	B*07:87	Confirmed	B*07:136	Unconfirmed	B*07:186	Unconfirmed
B*07:02:34	Unconfirmed	B*07:41	Unconfirmed	B*07:88	Confirmed	B*07:137	Unconfirmed	B*07:187	Unconfirmed
B*07:02:35	Unconfirmed	B*07:42	Confirmed	B*07:89	Unconfirmed	B*07:138	Unconfirmed	B*07:188	Unconfirmed
B*07:02:36	Unconfirmed	B*07:43	Confirmed	B*07:90	Unconfirmed	B*07:139	Unconfirmed	B*07:189	Unconfirmed
B*07:02:37	Unconfirmed	B*07:44	Unconfirmed	B*07:91	Confirmed	B*07:140	Unconfirmed	B*07:190	Unconfirmed
B*07:02:38	Unconfirmed	B*07:45	Unconfirmed	B*07:92	Confirmed	B*07:141	Unconfirmed		
B*07:03	Confirmed	B*07:46	Unconfirmed	B*07:93	Unconfirmed	B*07:142	Unconfirmed		
B*07:04	Confirmed	B*07:47	Confirmed	B*07:94	Confirmed	B*07:143	Confirmed		
B*07:05:01	Confirmed	B*07:48	Confirmed	B*07:95	Confirmed	B*07:144	Unconfirmed		
B*07:05:02	Unconfirmed	B*07:49N	Unconfirmed	B*07:96:01	Confirmed	B*07:145	Unconfirmed		
B*07:05:03	Unconfirmed	B*07:50	Unconfirmed	B*07:96:02	Unconfirmed	B*07:146	Unconfirmed		
B*07:05:04	Unconfirmed	B*07:51	Confirmed	B*07:97	Unconfirmed	B*07:147	Unconfirmed		
B*07:05:05	Confirmed	B*07:52	Unconfirmed	B*07:98	Confirmed	B*07:148	Confirmed		
B*07:05:06	Unconfirmed	B*07:53	Confirmed	B*07:99	Unconfirmed	B*07:149	Confirmed		
B*07:06	Confirmed	B*07:54	Confirmed	B*07:100	Unconfirmed	B*07:150	Unconfirmed		
B*07:07	Confirmed	B*07:55	Unconfirmed	B*07:101	Unconfirmed	B*07:151	Unconfirmed		
B*07:08	Confirmed	B*07:56:01	Unconfirmed	B*07:102	Confirmed	B*07:152	Unconfirmed		
B*07:09	Confirmed	B*07:56:02	Unconfirmed	B*07:103	Confirmed	B*07:153	Unconfirmed		

¹ Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2013-April-17, release 3.12.0, www.ebi.ac.uk/imgt/hla

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SPECIFICITY TABLE

HLA-B*07 SSP subtyping

Specificities and sizes of the PCR products of the 80 primer mixes used for HLA-B*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*07 alleles ^{3,4}	Other amplified HLA Class I alleles ^{3,5}
1	395 bp	800 bp	*07:02:01-07:02:27, 07:02:29-07:02:38, 07:04-07:07, 07:09, 07:10 ^W , 07:11-07:12, 07:14-07:15, 07:17- 07:26, 07:28-07:31, 07:33:01-07:36, 07:39- 07:49N, 07:51-07:64, 07:66-07:68:03, 07:70- 07:82, 07:84, 07:86- 07:124, 07:126-07:179, 07:181N-07:182N, 07:184-07:190	*14:21, 38:26, 40:166 [?] , 42:01:01- 42:02, 42:04-42:06, 42:08-42:10, 42:12-42:20, 45:06, 67:01:01- 67:01:03, 67:03, 73:01 ^W -73:02 ^W , 81:02
2	285 bp	1070 bp	*07:02:01-07:06, 07:08- 07:11, 07:13, 07:15- 07:17, 07:20-07:32, 07:34-07:39, 07:41- 07:52, 07:54-07:59, 07:61-07:76, 07:79- 07:83, 07:85-07:99, 07:101-07:121, 07:123- 07:136, 07:138, 07:140- 07:161N, 07:164, 07:166-07:190	*08:79, 35:66, 37:07, 40:15-40:16, 40:31-40:32, 40:45, 40:80, 40:98, 42:05:01-42:05:02, 48:01:01- 48:01:04, 48:05-48:12, 48:14-48:16, 48:18-48:20, 48:22, 48:27-48:30, 81:01-81:06
3	235 bp	1070 bp	*07:02:01-07:04, 07:07- 07:13, 07:15-07:16, 07:18:01-07:18:02, 07:20-07:27, 07:29- 07:31, 07:35-07:39, 07:41-07:52, 07:54- 07:59, 07:61-07:68:03, 07:70-07:73, 07:75- 07:77, 07:79, 07:81- 07:89, 07:91-07:95, 07:98-07:99, 07:101- 07:104, 07:106-07:111N, 07:113-07:114,	*15:138, 15:241, 18:35, 35:66, 37:07, 40:31-40:33, 40:52, 40:59, 40:98, 46:06, 48:08, 48:23, C*02:23

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			07:116-07:121, 07:124-07:136, 07:141-07:153, 07:155-07:164, 07:166-07:167N, 07:169-07:171, 07:173-07:175, 07:177-07:181N, 07:183-07:190	
4⁵	105 bp	800 bp	*07:02:01-07:02:25, 07:02:27-07:03, 07:05:01-07:18:02, 07:20-07:24, 07:27-07:32, 07:35-07:39, 07:41-07:42, 07:44-07:47, 07:49N-07:52, 07:54, 07:56:01-07:59, 07:61-07:65, 07:67N-07:79, 07:81-07:99, 07:101-07:121, 07:123-07:130, 07:132-07:138, 07:140-07:145, 07:148-07:163, 07:166-07:190	*08:79, 35:66, 37:07, 40:15-40:16, 40:23, 40:32, 40:98, 40:128, 40:198, 44:150, 48:05, 48:08, C*04:77
5	220 bp	1070 bp	*07:02:01-07:02:38, 07:04-07:07, 07:09-07:15, 07:17-07:26, 07:28, 07:30-07:31, 07:33:01-07:36, 07:39-07:49N, 07:51-07:64, 07:66-07:68:03, 07:73-07:84, 07:87-07:179, 07:181N-07:183, 07:185, 07:186 ^w , 07:187-07:190	*27:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:105, 38:26, 42:01:01-42:02, 42:04-42:06, 42:08-42:10, 42:12-42:20, 54:02, 55:10, 56:35, 67:01:01-67:03, 73:01-73:02, 81:01-81:06, C*03:137, C*03:182, C*07:102^w, C*12:82
6	215 bp	1070 bp	*07:03, 07:08, 07:16, 07:27, 07:32, 07:38, 07:50, 07:69, 07:85, 07:180	*08:94, 13:14, 14:01:01-14:01:03, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 15:68, 15:71, 15:175, 18:01:01:01-18:01:12, 18:01:14-18:03, 18:05-18:15, 18:17N-18:24, 18:26-18:67, 18:69, 18:71-18:89, 27:12, 27:16, 27:18, 27:23, 27:29, 27:92, 35:50, 35:84, 35:162, 35:197, 37:01:01-37:37, 38:01:01-38:04, 38:06-38:25, 38:27-38:32, 38:35-38:43, 39:01:01:01-39:01:01:03, 39:01:03-39:03, 39:05:01-39:11, 39:13:01-39:20, 39:22-39:51, 39:53-39:62, 39:64-39:71, 39:73-39:75, 39:77-39:82, 40:02:01-40:06:07, 40:08-40:09, 40:11:01-40:11:02, 40:13,

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				40:18-40:20, 40:24, 40:26-40:27:01, 40:28-40:29, 40:35, 40:37, 40:39-40:40, 40:44, 40:50, 40:56, 40:64, 40:68, 40:70-40:71, 40:74-40:75, 40:78, 40:82-40:83, 40:85-40:86, 40:89-40:91, 40:93-40:99, 40:104-40:105, 40:107, 40:109, 40:111, 40:115, 40:119-40:120, 40:122, 40:127, 40:131, 40:133Q, 40:142N-40:145, 40:148-40:149, 40:157, 40:159, 40:161-40:162, 40:165, 40:167, 40:169, 40:173-40:174, 40:176-40:177, 40:180-40:181, 40:184, 40:189-40:190, 40:201-40:203, 40:205-40:206, 40:209-40:211, 40:214, 40:220, 40:224-40:225, 40:229-40:230, 40:232, 42:07, 42:11, 44:103, 44:130-44:131, 48:01:01-48:21, 48:23-48:30, 51:57, 51:103, 51:116, 53:21
7^{5,12}	105 bp, 215 bp	1070 bp	*07:04, 07:25, 07:29, 07:52, 07:146, 07:186	*40:136, 40:231, 41:08, 42:05:01-42:05:02
8¹³	160 bp, 235 bp	1070 bp	*07:05:01-07:06, 07:32, 07:34, 07:59, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 07:182N	*08:79, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29, 40:07, 40:10:01-40:10:02, 40:12, 40:14:01-40:16, 40:21-40:23, 40:25, 40:30, 40:34, 40:36, 40:38, 40:43, 40:45-40:49, 40:54-40:55, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114, 40:116-40:118N, 40:121, 40:123, 40:125-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:171, 40:175, 40:179, 40:182-40:183, 40:185-40:186, 40:188, 40:191-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:233-40:238, 41:08, 42:05:01-42:05:02, 44:31, 48:01:01-48:01:04, 48:03:01-48:03:02, 48:05-48:07, 48:09-48:12, 48:14-48:16, 48:18-48:22,

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48:28-48:30, 81:01-81:06				
9⁷	355 bp	1070 bp	*07:05:01-07:05:06	*35:46, 37:07, C*03:04:36
10¹⁴	285 bp, 415 bp	800 bp	*07:07, 07:12, 07:14, 07:18:01-07:18:02, 07:47, 07:77, 07:81, 07:137, 07:162-07:163	*08:52, 15:138, 15:230, 15:241, 18:35, 38:41, 40:01:01-40:01:17, 40:01:19-40:01:29, 40:07, 40:10:01- 40:10:02, 40:12, 40:14:01-40:14:03, 40:21-40:23, 40:25, 40:33, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:52, 40:54-40:55, 40:59-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:109 [?] , 40:112- 40:114, 40:116-40:118N, 40:121, 40:123-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01- 40:160:02, 40:166, 40:168, 40:170- 40:172, 40:175, 40:179, 40:182- 40:183, 40:185-40:188, 40:191- 40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215- 40:218, 40:221-40:223, 40:227- 40:228, 40:231, 40:234-40:238, 41:08, 44:31, 44:150, 46:06, 48:03:01-48:03:02, 48:17-48:18, 48:23, C*02:23, C*04:77, C*07:38:01-07:38:02
11¹⁵	130 bp, 210 bp	1070 bp	*07:08, 07:10, 07:32, 07:38-07:39	*08:94, 18:07:01-18:07:02, 18:29, 18:79, 27:01-27:05:08, 27:05:10- 27:11, 27:13-27:15, 27:17, 27:19- 27:21, 27:23-27:28, 27:30-27:76, 27:78-27:84, 27:86-27:91, 27:93- 27:100, 27:102-27:105, 35:50, 35:84, 35:162, 35:197, 37:21, 38:06-38:07, 39:58, 40:08, 40:13, 40:68, 40:162, 40:220, 40:232, 48:06, 51:57, 51:103, 51:116, 53:21, 73:01-73:02
12	225 bp	1070 bp	*07:09, 07:11, 07:17, 07:162	*15:138, 15:241, 18:35, 35:66, 40:38, 40:52, 40:59-40:60, 40:158, 40:222, 46:06, 48:14, 48:23, C*07:38:01- 07:38:02
13^{5,16}	85 bp, 290 bp	1070 bp	*07:12, 07:14, 07:18:01- 07:18:02, 07:31, 07:34, 07:43, 07:137,	*40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02, 40:199, 41:08, 42:05:01-42:05:02, 44:150, 48:17,

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			07:162-07:163	C*07:38:01-07:38:02
14⁸	215 bp	800 bp	*07:26, 07:34, 07:43, 07:48, 07:80, 07:131, 07:147, 07:164	*08:13, 08:25, 14:05, 14:13, 15:55, 18:14, 18:22, 27:07:01-27:07:03, 27:11, 27:24, 27:32-27:34, 27:43, 35:05:01-35:05:03, 35:16-35:17, 35:22, 35:30-35:31, 35:51, 35:58, 35:72, 35:89, 35:97, 35:113-35:114, 35:125, 35:199, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 40:02:01- 40:03, 40:05, 40:08-40:09, 40:13, 40:18-40:19, 40:24, 40:27:01- 40:27:02, 40:29, 40:31, 40:35, 40:37, 40:39-40:40, 40:45, 40:50, 40:56- 40:58, 40:71, 40:78, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97, 40:104-40:105, 40:107, 40:111, 40:115, 40:119, 40:122, 40:133Q, 40:142N-40:145, 40:157, 40:164, 40:169, 40:173-40:174, 40:176, 40:180-40:181, 40:189, 40:200- 40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224, 40:226, 40:229, 40:232, 42:19, 44:54, 44:110, 44:135, 48:01:01-48:01:04, 48:04, 48:06- 48:07, 48:09-48:16, 48:18, 48:20, 48:22, 48:24, 48:27-48:30, 51:64, 51:81, 51:148, 53:14, 55:04, 55:49, 55:51, 58:18, 58:27, 81:01-81:06, C*03:05, C*03:25, C*03:27, C*03:143, C*03:167, C*07:294, C*08:08
15¹⁷	385 bp, 415 bp	1070 bp	*07:11, 07:47, 07:54, 07:57, 07:75, 07:123	*08:17, 08:47, 39:20, 42:15, 45:06
16	230 bp	1070 bp	*07:16, 07:27, 07:37- 07:38, 07:50, 07:75, 07:91, 07:180	*13:14, 14:14, 15:68, 15:71, 15:175, 18:01:01:01-18:01:01:02, 18:01:03- 18:01:12, 18:01:14-18:02, 18:05- 18:15, 18:17N-18:24, 18:26-18:67, 18:69, 18:71-18:89, 27:01, 27:18, 27:23, 27:29, 27:44, 27:92, 35:50, 35:84, 35:162, 35:197, 37:01:01- 37:36, 38:01:01-38:02:05, 38:04, 38:06-38:12, 38:15-38:25, 38:27- 38:32, 38:34N-38:40, 38:42-38:43, 39:05:01-39:05:02, 39:07-39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37, 39:49, 39:55-39:56,

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17¹⁸	345 bp, 425 bp	1070 bp	*07:11, 07:27, 07:46, 07:57, 07:75	*08:17, 08:47, 38:17, 39:20, 42:15
18	265 bp	1070 bp	*07:12, 07:78, 07:84, 07:162	*35:66, 40:59-40:60, 40:125, 48:17, C*02:23, C*04:77, C*07:38:01- C*07:38:02
19¹⁹	205 bp, 250 bp, 295 bp	800 bp	*07:20, 07:35, 07:140, 07:153	*15:14, 15:91, 15:131, 15:161, 18:56, 35:45, 35:71, 35:169, 40:132, 40:178, 44:10, 44:14, 44:17, 44:31, 44:43:01-44:43:02, 44:45, 44:51, 44:54, 44:62, 44:77, 44:82, 44:106- 44:107, 44:123, 44:135, 44:158, 45:09, 45:14, 46:17, 51:23, 51:108, 52:15, 53:22, 57:07, 58:07, 82:01- 82:03
20²⁰	160 bp, 205 bp, 275 bp	1070 bp	*07:21, 07:51, 07:59	C*07:294, C*08:08
21^{5,6,21}	100 bp, 165 bp	1070 bp	*07:22:01-07:22:02, 07:52	
22	385 bp	1070 bp	*07:23	*40:79, 40:190, 41:14
23⁵	85 bp	1070 bp	*07:20, 07:24, 07:131	*15:230, 40:63
24^{5,6}	125 bp	800 bp	*07:25, 07:39, 07:48	*18:35, 27:36, 35:66, 40:01:01- 40:01:19, 40:01:21-40:01:29, 40:07, 40:10:01-40:10:02, 40:12,

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25^{9,22}	305 bp, 425 bp	1070 bp	*07:27, 07:117	*38:17, 40:188 [?]
26^{5,23}	95 bp, 205 bp, 235 bp, 290 bp	800 bp	*07:20, 07:24, 07:28, 07:42, 07:51, 07:60, 07:100, 07:118, 07:131	*08:14, 08:21, 08:25, 08:87, 15:07:01-15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207, 27:32, 35:05:01-35:05:03, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 40:05, 40:71, 40:174, 40:180, 44:54, 44:106, 44:135, 44:158, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*03:167, C*07:294, C*08:08
27²⁴	165 bp, 215 bp	800 bp	*07:29, 07:41, 07:186	
28^{5,8}	110 bp	1070 bp	*07:30	
29^{5,6,8,25}	85 bp, 200 bp	800 bp	*07:31, 07:34, 07:43- 07:44	*40:199, 41:08, 42:05:01-42:05:02, C*07:38:01-07:38:02
30	190 bp	800 bp	*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90,	*08:40, 08:79, 13:01:01-13:01:02, 13:01:04-13:02:15, 13:07N-13:09, 13:11, 13:13-13:23, 13:25,

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31²⁶	215 bp, 280 bp	800 bp	*07:19, 07:33:01, 07:53, 07:55, 07:60, 07:100	*08:70, 08:103, 14:05, 14:13, 15:07:01-15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207, 18:14, 27:07:01-27:07:03, 27:11, 27:24, 27:32-27:34, 27:43, 35:05:01-35:05:03, 35:22, 35:31, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 37:09, 38:19, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 39:76, 40:02:01-40:03, 40:05, 40:08-40:09, 40:13, 40:18-40:19, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:39-40:40, 40:50, 40:56-40:58, 40:71, 40:78, 40:82, 40:85, 40:89-40:91, 40:94, 40:97, 40:104-40:105, 40:107, 40:111, 40:115, 40:119, 40:122, 40:133Q, 40:142N-40:145, 40:157, 40:164, 40:169, 40:173-40:174, 40:176, 40:180-40:181, 40:189, 40:200-40:203, 40:205-40:206,

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32¹⁰	190 bp	1070 bp	*07:34	*08:01:01-08:05, 08:08N-08:10, 08:12:01-08:13, 08:15-08:20, 08:22-08:24, 08:26-08:27, 08:29-08:36, 08:38-08:39, 08:41-08:48, 08:50-08:73, 08:75-08:76, 08:78, 08:80-08:86N, 08:88, 08:90-08:106, 13:06, 13:53, 14:13, 15:42, 15:83, 15:86, 15:188, 15:224, 15:252, 18:26, 18:61, 35:60, 35:87, 37:12, 38:01:01, 38:01:03-38:01:05, 38:01:07-38:07, 38:09-38:21, 38:23-38:28, 38:31-38:43, 39:01:01:01-39:01:01:03, 39:01:03-39:06:02, 39:08-39:14, 39:16, 39:18-39:20, 39:22-39:24:02, 39:26-39:28, 39:30-39:31, 39:34-39:37, 39:39:01-39:39:02, 39:41-39:42, 39:44-39:46, 39:48, 39:51-39:54, 39:56-39:66, 39:68-39:73, 39:75-39:82, 40:39, 40:51, 40:163, 40:184, 40:199, 41:01-41:03:02, 41:05-41:09, 41:11-41:16, 41:20, 41:22-41:27, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 42:17-42:19, 44:166, 46:18, 51:21, 51:36, 51:101, 51:143, 54:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10-54:13, 54:17-54:25, 54:27-54:28, 55:01:01-55:05, 55:07, 55:10-55:13, 55:15-55:21, 55:25-55:26, 55:28-55:40, 55:42-55:45, 55:47-55:50, 55:52-55:57, 56:10, 56:12, 56:23, 58:20, 59:01:01:01-59:03, 59:05, 67:01:01-67:03, 78:07, C*15:24
33^{5,6,27}	90 bp, 350 bp	1070 bp	*07:61, 07:149	*08:02, 13:36, 15:89, 15:115, 18:09, 38:02:01-38:02:05, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 38:43, 44:12, 51:54, 51:78:01-51:78:02, 53:09, 53:11-53:13, 56:07

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35^{5,8,28}	105 bp, 215 bp	1070 bp	*07:63, 07:143	*40:166, 42:02, 42:09, 42:17-42:18, 45:06, 54:02, 55:16, 56:35
36²⁹	180 bp, 250 bp	1070 bp	*07:64, 07:167N	
37	210 bp	1070 bp	*07:65	*18:04, 35:08:05, 35:42:02, 35:185, 39:63, 40:01:11, 40:58, 56:05:01, 56:06, 78:01:01-78:01:02, 78:02:02- 78:03, 78:07
38^{8,30}	190 bp, 215 bp	1070 bp	*07:66, 07:103, 07:113	*08:64
39	425 bp	1070 bp	*07:05:01-07:06, 07:34, 07:40, 07:53, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123 ^w , 07:137- 07:138, 07:140, 07:176, 07:182N	*40:61 ^w , 40:166, 42:01:01-42:02, 42:04-42:05:02, 42:07-42:08, 42:10, 42:12-42:15, 42:17-42:19, 54:04, 54:11, 55:04, 55:08, 55:17, 55:20, 55:28, 55:49, 55:51, 56:05:01-56:06, 56:12, 56:15, 56:21, 81:01-81:04N, 81:06
40^{8,31}	265 bp, 395 bp	1070 bp	*07:56:01-07:56:02, 07:72, 07:83	*08:26, 08:56:01-08:56:02, 38:28, 39:63, 40:21 [?] , 40:58 [?] , 40:137 [?] , 41:12, 49:03
41³²	400 bp, 425 bp	1070 bp	*07:58, 07:156	
42³³	195 bp, 225 bp	1070 bp	*07:67N, 07:71	
43⁶	140 bp	1070 bp	*07:68:01-07:68:03, 07:100	*08:71, 14:05, 14:13, 15:07:01- 15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207, 18:14, 27:32, 35:05:01-35:05:03, 35:22, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 35:199, 38:19, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 39:76, 40:35, 40:71, 41:24, 42:10, 42:17, 44:54, 44:106, 44:135, 44:158, 46:12, 48:12, 48:14, 48:29, 51:64, 53:14, 58:18
44	150 bp	1070 bp	*07:10	*27:75 ^w , 73:01 ^w -73:02 ^w
45⁵	105 bp	1070 bp	*07:27, 07:50	*08:04, 08:17, 08:54, 15:03:01- 15:03:04, 15:47:01-15:47:02, 15:54, 15:61-15:62, 15:64:01-15:64:02, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 15:253, 15:259, 15:266, 15:274,

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46	425 bp	1070 bp	*07:13, 07:15, 07:92	*08:15, 39:27, 40:73, 67:02, 73:01 ^w - 73:02 ^w
47	215 bp	800 bp	*07:04, 07:19, 07:25, 07:146	*08:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:14-08:15, 08:17- 08:19N, 08:21-08:24, 08:26-08:39, 08:41-08:48, 08:50-08:54, 08:56:01- 08:59:02, 08:61-08:69, 08:71-08:78, 08:80-08:83, 08:85-08:88, 08:90- 08:106, 08:108, 35:87, 37:09, 41:02:01-41:02:05, 41:04, 41:10- 41:11, 41:13, 41:15, 41:18-41:19, 41:23-41:24, 41:27, 42:01:01-42:02, 42:05:01-42:12, 42:14-42:18, 42:20, 44:106, 44:158, 44:166
48³⁴	200 bp, 280 bp	1070 bp	*07:76-07:77	*40:60, C*07:38:01-07:38:02
49	200 bp	1070 bp	*07:82	*44:129
50^{5,35}	75 bp, 105 bp, 165 bp	1070 bp	*07:74, 07:87, 07:175	*08:77, 15:126, 48:27
51³⁶	345 bp, 470 bp	1070 bp	*07:93, 07:97	*08:39, 38:27
52	290 bp	800 bp	*07:95	*40:233
53⁸	235 bp	800 bp	*07:14, 07:17, 07:28, 07:96:01-07:96:02, 07:115	*15:230, 27:36, 40:42, 40:60, 40:124:01-40:124:02, 40:172, 44:150, 48:17, 48:26, C*04:77, C*07:38:01-07:38:02
54⁶	185 bp	1070 bp	*07:98, 07:167N	
55	260 bp	1070 bp	*07:99	
56^{6,8}	230 bp	1070 bp	*07:20, 07:24, 07:45, 07:60, 07:100, 07:131	*08:21, 08:25, 15:07:01-15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207, 35:05:01-35:05:03, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 40:05, 40:71, 40:174, 44:54, 44:106, 44:135, 44:158, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*03:167

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57 ³⁷	150 bp, 215 bp	1070 bp	*07:70, 07:109	
58 ^{6,38}	245 bp, 440 bp	1070 bp	*07:79, 07:112	
59 ^{5,39}	95 bp, 190 bp	800 bp	*07:89, 07:113, 07:115, 07:182N	*08:64, 08:69, 14:05, 38:19, 39:03, 39:24:01-39:24:02, 39:37, 39:76, 40:71, 41:18, 42:06, 42:20, 48:07, C*08:08
60	145 bp	1070 bp	*07:73	*40:166, 44:90, 45:06
61 ⁴⁰	205 bp, 420 bp	1070 bp	*07:88, 07:105	
62	415 bp	800 bp	*07:16, 07:27, 07:37- 07:38, 07:50, 07:75, 07:91, 07:180	*08:03, 08:23, 08:54, 14:14, 14:18, 15:68, 38:01:01-38:02:05, 38:04- 38:12, 38:15-38:25, 38:27-38:40, 38:42-38:43, 39:05:01-39:05:02, 39:07-39:08, 39:11, 39:13:01- 39:13:02, 39:20, 39:37, 39:49, 39:55- 39:56, 40:01:01-40:01:29, 40:07, 40:09 [?] , 40:11:01 [?] -40:11:02 [?] , 40:14:01 [?] -40:15 [?] , 40:16, 40:18 [?] - 40:19 [?] , 40:21 [?] -40:22N [?] , 40:23, 40:24 [?] -40:38 [?] , 40:42 [?] , 40:44 [?] -40:49 [?] , 40:51, 40:52 [?] -40:58 [?] , 40:59-40:60, 40:61 [?] -40:65 [?] , 40:67 [?] -40:69 [?] , 40:71 [?] , 40:72:01-40:73, 40:74 [?] -40:76 [?] , 40:77, 40:78 [?] , 40:79, 40:80 [?] -40:88 [?] , 40:90 [?] -40:93 [?] , 40:95 [?] -40:96 [?] , 40:98 [?] - 40:121 [?] , 40:123 [?] , 40:124:01, 40:124:02 [?] -40:137 [?] , 40:138-40:140, 40:141 [?] , 40:145 [?] , 40:146, 40:148 [?] - 40:149 [?] , 40:150, 40:151 [?] , 40:152- 40:153, 40:154 [?] , 40:155N, 40:156 [?] - 40:165 [?] , 40:167 [?] -40:171 [?] , 40:172, 40:173 [?] -40:185 [?] , 40:186, 40:187 [?] - 40:213 [?] , 40:215 [?] -40:228 [?] , 40:231 [?] - 40:238 [?] , 41:01-41:26, 42:11, 44:18, 45:01-45:05, 45:07-45:14, 48:01:01- 48:30, 49:01:01-49:26, 50:01:01, 50:01:02 [?] , 50:01:03-50:02, 50:04- 50:20, 50:31-50:32
63 ^{5,41}	65 bp, 230 bp	1070 bp	*07:94, 07:135N	C*03:124, C*04:49, C*05:15, C*07:262, C*12:95
64	210 bp	1070 bp	*07:69, 07:85, 07:180	*14:01:01-14:01:03, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 18:33, 27:12, 27:16, 27:92,

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				38:01:01-38:02:05, 38:04, 38:08-38:25, 38:27-38:32, 38:34N-38:43, 39:01:01:01-39:01:01:03, 39:01:03-39:01:16, 39:03, 39:05:01-39:07, 39:09, 39:11, 39:14-39:15, 39:18-39:19:02, 39:22, 39:24:01-39:38Q, 39:40:01N-39:48, 39:50-39:51, 39:53-39:57, 39:59-39:62, 39:64-39:71, 39:73-39:75, 39:77-39:82, 40:75
65⁴²	385 bp, 450 bp	1070 bp	*07:54, 07:111N, 07:123	*45:06
66	435 bp	1070 bp	*07:36, 07:38, 07:81, 07:180	*08:03, 08:52, 08:78, 38:01:01-38:01:07, 38:05-38:07, 38:09-38:14, 38:16, 38:19-38:22, 38:24-38:28, 38:30-38:34N, 38:36-38:42, 40:19 [?] , 40:109 [?] , 40:117 [?] , 44:18, 48:18, 49:01:01-49:01:04, 49:03-49:26
67⁷	230 bp	800 bp	*07:29, 07:72, 07:86, 07:114	*08:01:01-08:05, 08:07-08:56:02, 08:58-08:93, 08:95-08:108, 14:11, 14:28, 38:33, 39:04, 39:63, 40:01:01-40:01:29, 40:07, 40:14:01 [?] -40:15 [?] , 40:16, 40:21 [?] -40:22N [?] , 40:23, 40:25 [?] , 40:30 [?] -40:34 [?] , 40:36 [?] , 40:38 [?] , 40:42 [?] -40:43 [?] , 40:45 [?] -40:49 [?] , 40:51, 40:52 [?] -40:55 [?] , 40:58 [?] , 40:59-40:60, 40:61 [?] -40:63 [?] , 40:65 [?] , 40:66, 40:67 [?] , 40:69 [?] , 40:72:01-40:73, 40:76 [?] , 40:77, 40:79, 40:80 [?] -40:81 [?] , 40:84 [?] , 40:87:01 [?] -40:88 [?] , 40:92 [?] , 40:100 [?] -40:102 [?] , 40:106 [?] , 40:108 [?] , 40:110 [?] , 40:112 [?] -40:114 [?] , 40:116 [?] -40:118N [?] , 40:121 [?] , 40:123 [?] , 40:124:01, 40:124:02 [?] -40:126 [?] , 40:128 [?] -40:130 [?] , 40:132 [?] , 40:134 [?] -40:137 [?] , 40:138-40:140, 40:141 [?] , 40:146-40:147, 40:150, 40:151 [?] , 40:152-40:153, 40:154 [?] , 40:155N, 40:156 [?] , 40:158 [?] , 40:160:01 [?] -40:160:02 [?] , 40:163 [?] , 40:166 [?] , 40:168 [?] , 40:170 [?] -40:171 [?] , 40:172, 40:175 [?] , 40:178 [?] -40:179 [?] , 40:182 [?] -40:183 [?] , 40:185 [?] , 40:186, 40:187 [?] -40:188 [?] , 40:191 [?] -40:194 [?] , 40:196 [?] -40:199 [?] , 40:204 [?] , 40:207 [?] -40:208 [?] , 40:212 [?] -40:213 [?] , 40:215 [?] -40:219 [?] ,

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				40:221 [?] -40:223 [?] , 40:227 [?] -40:228 [?] , 40:231 [?] , 40:233 [?] , 40:235 [?] -40:238 [?] , 41:01-41:27, 44:18, 45:01-45:14, 48:22, 49:01:01-49:23, 49:25-49:26, 50:01:01, 50:01:02 [?] , 50:01:03-50:02, 50:04-50:20, 50:31-50:32
68 ⁴³	335 bp, 365 bp, 415 bp	1070 bp	*07:13, 07:15, 07:101, 07:148, 07:160	*08:16, 40:193 [?] , 42:18, 67:02
69 ^{6,44}	190 bp, 245 bp, 465 bp	1070 bp	*07:102, 07:106, 07:108	*08:18, 73:01-73:02
70 ^{5,45}	125 bp, 205 bp	800 bp	*07:104, 07:114	
71 ^{11,46}	245 bp, 280 bp, 390 bp	1070 bp	*07:107-07:108, 07:181N	
72	165 bp	1070 bp	*07:13, 07:110	*38:11, 54:02, 67:02, 81:06, C*03:137, C*03:182, C*07:102^w, C*12:82
73 ^{5,47}	85 bp, 240 bp	1070 bp	*07:49N, 07:119, 07:169	
74 ⁴⁸	345 bp, 425 bp	1070 bp	*07:120, 07:156	*40:150, 57:29
75 ^{5,49}	105 bp, 250 bp	1070 bp	*07:121, 07:126, 07:175	*15:126
76 ⁵⁰	170 bp, 285 bp	1070 bp	*07:122, 07:128	
77 ⁵¹	335 bp, 405 bp	800 bp	*07:116, 07:148	*40:193 [?]
78 ^{5,52}	110 bp, 380 bp	1070 bp	*07:125, 07:129	
79 ^{5,53}	65 bp, 95 bp	1070 bp	*07:119, 07:130	
80	405 bp	1070 bp	*07:161N	

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B*07 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits the respective lengths of the HLA-specific PCR product(s) are given for the alleles amplified by these primer mixes.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

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PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*07 subtyping.

In addition, wells number 4, 10, 14, 19, 24, 26, 27, 29 to 31, 47, 52, 53, 59, 62, 67, 70 and 77 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

³For several HLA B alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B*07 alleles will be amplified by primer mixes 1 to 19, 22 to 26, 29 to 33, 35, 37 to 40, 43 to 53, 56, 59, 60, 62, 64 to 69, 72, 74, 75 and 77. In addition, the C*02:23 allele will be amplified by primer mixes 3, 10 and 18, the C*02:60 allele will be amplified by primer mix 31, the C*03:04:36 allele will be amplified by primer mix 9, the C*03:05, C*03:25, C*03:27 and C*03:167 alleles will be amplified by primer mixes 14, 26, 31 and 56, the C*03:124, C*04:49, C*05:15, C*07:262 and C*12:95 alleles will be amplified by primer mix 63, the C*03:137, C*03:182, C*07:102^w and C*12:82 allele will be amplified by primer mixes 5 and 72, the C*03:143 will be amplified by primer mix 14, the C*04:77 allele will be amplified by primer mixes 4, 10, 18 and 53, the C*07:38:01-07:38:02 alleles will be amplified by primer mixes 10, 12, 13, 18, 29, 48 and 53, the C*07:294 allele will be amplified by primer mixes 14, 20 and 26, the C*08:08 allele will be amplified by primer mixes 14, 20, 26, 31 and 59 and the C*15:24 allele will be amplified by primer mix 32.

⁵HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁶Primer mixes 21, 24, 29, 33, 43, 54, 56, 58 and 69 have a tendency to giving rise to primer oligomer formation.

⁷Primer mixes 9 and 67 may give rise to a lower yield of HLA-specific PCR product than the other B*07 primer mixes.

⁸Primer mixes 14, 28, 29, 35, 38, 40, 53 and 56 may have tendencies of unspecific amplifications, most pronounced in primer mixes 29, 35 and 53.

⁹Primer mix 25 may give rise to unspecific amplification in B*73 alleles.

¹⁰Primer mix 32 may give rise to a faint band in many B*14, B*37, C*04, C*05, C*08 and C*18 alleles.

¹¹Primer mix 71 may give rise to an unspecific amplification product of approx. 900 bp in some HLA-B alleles. This band should be disregarded in the interpretation of HLA-B*07 typings.

¹²Primer mix 7: Specific PCR fragment of 105 bp in the B*07:04, 07:25, 07:52 and 07:146 and the B*40:136, 40:231 41:08 and 42:05:01-42:05:02 alleles. Specific PCR fragment of 215 bp in the B*07:29 and 07:186 alleles.

¹³Primer mix 8: Specific PCR fragment of 160 bp in the B*07:59 allele. Specific PCR fragment of 235 bp in the B*07:05:01-07:06, 07:32, 07:34, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176 and 07:182N and the B*08:79, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29, 40:07, 40:10:01-40:10:02, 40:12, 40:14:01-40:16, 40:21-40:23, 40:25, 40:30, 40:34, 40:36, 40:38, 40:43, 40:45-40:49, 40:54-40:55, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114, 40:116-40:118N, 40:121, 40:123, 40:125-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:171, 40:175, 40:179, 40:182-40:183, 40:185-40:186, 40:188, 40:191-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:233-40:238, 41:08,

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42:05:01-42:05:02, 44:31, 48:01:01-48:01:04, 48:03:01-48:03:02, 48:05-48:07, 48:09-48:12, 48:14-48:16, 48:18-48:22, 48:28-48:30 and 81:01-81:06 alleles.

¹⁴Primer mix 10: Specific PCR fragment of 285 bp in the B*07:07, 07:12, 07:14, 07:18:01-07:18:02, 07:77, 07:137, 07:162-07:163 and the B*15:138, 15:230, 15:241, 18:35, 40:01:01-40:01:17, 40:01:19-40:01:29, 40:07, 40:10:01-40:10:02, 40:12, 40:14:01-40:14:03, 40:21-40:23, 40:25, 40:33, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:52, 40:54-40:55, 40:59, 40:60-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114, 40:116-40:118N, 40:121, 40:123-40:126, 40:128, 40:132, 40:134-40:136, 40:137, 40:138-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 40:182-40:183, 40:185-40:188, 40:191-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:234-40:238 41:08, 44:31, 44:150 46:06, 48:03:01-48:03:02, 48:17 48:23 and in the C*02:23, C*04:77, C*07:38:01-07:38:02 alleles. Specific PCR fragment of 415 bp in the B*07:47, 07:81 and the B*08:52, 38:41, 40:109² and 48:18 alleles

¹⁵Primer mix 11: Specific PCR fragment of 130 bp in B*07:39 allele. Specific PCR fragment of 210 bp in the B*07:08, 07:10 07:32, 07:38 and the B*08:94, 18:07:01-18:07:02, 18:29, 18:79, 27:01-27:05:08, 27:05:10-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:23, 27:24-27:28, 27:30-27:36, 27:38-27:76, 27:78-27:84, 27:86-27:91, 27:93-27:100 27:102-27:105 35:50, 35:84, 35:162, 35:197, 37:21, 38:06-38:07, 39:58, 40:08, 40:13, 40:68, 40:162, 40:220, 40:232 48:06, 51:57, 51:103, 51:116, 53:21 and 73:01-73:02 alleles.

¹⁶Primer mix 13: Specific PCR fragment of 85 bp in the B*07:31, 07:34 and 07:43 and the B*40:199, 41:08 and 42:05:01-42:05:02 and in the C*07:38:01-07:38:02 alleles. Specific PCR fragment of 290 bp in the B*07:12, 07:14, 07:18:01-07:18:02, 07:137 and 07:162-07:163 and the B*40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02, 44:150 and 48:17 alleles.

¹⁷Primer mix 15: Specific PCR fragment of 385 bp in the B*07:54 and 07:123 and the B*45:06 alleles. Specific PCR fragment of 415 bp in the B *07:11, 07:47, 07:57 and 07:75 and the B*08:17, 08:47, 39:20 and 42:15 alleles.

¹⁸Primer mix 17: Specific PCR fragment of 345 bp in the B*07:46 allele. Specific PCR fragment of 425 bp in the the B*07:11, 07:27, 07:57 and 07:75 and the B*08:17, 08:47, 38:17, 39:20 and 42:15 alleles.

¹⁹Primer mix 19: Specific PCR fragment of 205 bp in the B*15:14, 15:91, 15:131, 15:161, 18:56, 35:45, 35:71, 35:169, 40:132, 40:178, 44:10, 44:14, 44:17, 44:31, 44:43:01-44:43:02, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 45:09, 45:14, 46:17, 51:23, 51:108, 52:15, 53:22, 57:07, 58:07 and 82:01-82:03 alleles. Specific PCR fragment of 250 bp in the B* 44:54, 44:106 and 44:158 alleles. Specific PCR fragment of 205 and 250 bp in the B*07:20, 07:140 and 07:153 and the B*44:135 alleles. Specific PCR fragment of 250 and 295 bp in the B*07:35 allele.

²⁰Primer mix 20: Specific PCR fragment of 160 bp in the B*07:59 allele. Specific PCR fragment of 205 bp in the B*07:51 and in the C*07:294 and C*08:08 alleles. Specific PCR fragment of 275 bp in the B*07:21 allele.

²¹Primer mix 21: Specific PCR fragment of 100 bp in the B*07:52 allele. Specific PCR fragment of 165 bp in the B*07:22:01-07:22:02 alleles.

²²Primer mix 25: Specific PCR fragment of 305 bp in the B*07:117 allele. Specific PCR fragment of 425 bp in the B*07:27 and the B*38:17 and 40:188² alleles.

²³Primer mix 26: Specific PCR fragment of 95 bp in the B*07:28 and 07:118 and the B*08:14, 08:87, 27:32 and 40:180 alleles. Specific PCR fragment of 205 bp in the B*07:51 and in the C*07:294 and 08:08 alleles. Specific PCR fragment of 235 bp in the B*07:20, 07:24, 07:60, 07:100 and 07:131 and the B*08:21, 08:25, 15:07:01-15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207, 35:05:01-35:05:03, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 40:05, 40:71, 40:174, 44:158, 46:12, 51:64, 51:148, 53:14, 55:51 and 58:18 and in the C*03:05, C*03:25, C*03:27 and C*03:167 alleles. Specific PCR fragment of 290 bp in the B*07:42 allele. Specific PCR fragments of 95 and 235 bp in the B*44:54 and 44:106 and 44:135 alleles.

²⁴Primer mix 27: Specific PCR fragment of 165 bp in the B*07:41 allele . Specific PCR fragment of 215 bp in the B*07:29 and 07:186 alleles.

²⁵Primer mix 29: Specific PCR fragment of 85 bp in the B*07:31, 07:34 and 07:43 and the B*40:199 41:08 and 42:05:01-42:05:02 and in the C*07:38:01-07:38:02 alleles. Specific PCR fragment of 200 bp in the B*07:44 allele.

²⁶Primer mix 31: Specific PCR fragment of 215 bp in the B*07:55 and the B*08:70 and 48:19 alleles. Specific PCR fragment of 280 bp in the B*07:19, 07:33:01, 07:53, 07:60 and the B*08:103,

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²⁷Primer mix 33: Specific PCR fragment of 90 bp in the B *07:149 and the B*08:02, 13:36, 15:89, 15:115, 18:09, 38:02:01-38:02:05, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 38:43, 44:12, 51:54, 51:78:01-51:78:02, 53:09, 53:11-53:13 and 56:07 alleles. Specific PCR fragment of 350 bp in the B*07:61 allele.

²⁸Primer mix 35: Specific PCR fragment of 105 bp in the B*07:63 allele. Specific PCR fragment of 215 bp in the B*07:143 and the B*40:166, 42:02, 42:09, 42:17-42:18, 45:06, 54:02, 55:16 and 56:35 alleles.

²⁹Primer mix 36: Specific PCR fragment of 180 bp in the B*07:167N allele. Specific PCR fragment of 250 bp in the B*07:64 allele.

³⁰Primer mix 38: Specific PCR fragment of 190 bp in the B*07:103 and 07:113 and the B*08:64 alleles. Specific PCR fragment of 215 bp in the B*07:66 allele.

³¹Primer mix 40: Specific PCR fragment of 265 bp in the B*07:56:01-07:56:02, 07:72 and the B*08:26, 08:56:01-08:56:02, 38:28, 39:63, 40:21[?], 40:58[?], 40:137[?], 41:12 and 49:03 alleles. Specific PCR fragment of 395 bp in the B*07:83 allele.

³²Primer mix 41: Specific PCR fragment of 400 bp in the B*07:58 allele. Specific PCR fragment of 425 bp in the B*07:156 allele.

³³Primer mix 42: Specific PCR fragment of 195 bp in the B*07:67N allele. Specific PCR fragment of 225 bp in the B*07:71 allele.

³⁴Primer mix 48: Specific PCR fragment of 200 bp in the B*07:76 allele. Specific PCR fragment of 280 bp in the B*07:77 and the B*40:60 and in the C*07:38:01-07:38:02 alleles.

³⁵Primer mix 50: Specific PCR fragment of 75 bp in the B*07:74 and the B*08:77 and 48:27 alleles. Specific PCR fragment of 105 bp in the B*07:175 and the 15:126 alleles. Specific PCR fragment of 165 bp in the B*07:87 allele.

³⁶Primer mix 51: Specific PCR fragment of 345 bp in the B*07:97 allele. Specific PCR fragment of 470 bp in the B*07:93 and the B*08:39 and 38:27 alleles.

³⁷Primer mix 57: Specific PCR fragment of 150 bp in the B*07:109 allele. Specific PCR fragment of 215 bp in the B*07:70 allele.

³⁸Primer mix 58: Specific PCR fragment of 245 bp in the B*07:112 allele. Specific PCR fragment of 440 bp in the B*07:79 allele.

³⁹Primer mix 59: Specific PCR fragment of 95 bp in the B*07:115 and 07:182N and the B*08:69, 14:05, 38:19, 39:03, 39:24:01-39:24:02, 39:37, 39:76, 40:71, 41:18, 42:06, 42:20 and 48:07 and in the C*08:08 alleles. Specific PCR fragment of 190 bp in the B*07:89 and 07:113 and the B*08:64 alleles.

⁴⁰Primer mix 61: Specific PCR fragment of 205 bp in the B*07:88 allele. Specific PCR fragment of 420 bp in the B*07:105 allele.

⁴¹Primer mix 63: Specific PCR fragment of 65 bp in the B*07:94 and in the C*03:124, C*04:49, C*05:15, C*07:262 and C*12:95 alleles. Specific PCR fragment of 230 bp in the B*07:135N allele.

⁴²Primer mix 65: Specific PCR fragment of 385 bp in the B*07:54 and 07:123 and the B*45:06 alleles. Specific PCR fragment of 450 bp in the B*07:111N allele.

⁴³Primer mix 68: Specific PCR fragment of 335 bp in the B*07:148 and the B*40:193[?] alleles. Specific PCR fragment of 365 bp in the B*07:101 allele. Specific PCR fragment of 415 bp in the B*07:13, 07:15 and 07:160 and the B*08:16, 42:18 and 67:02 alleles.

⁴⁴Primer mix 69: Specific PCR fragment of 190 bp in the B*07:106 allele. Specific PCR fragment of 245 bp in the B*07:108 allele. Specific PCR fragment of 465 bp in the B*07:102 and the B*08:18 and 73:01-73:02 alleles.

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⁴⁵Primer mix 70: Specific PCR fragment of 125 bp in the B*07:104 allele. Specific PCR fragment of 205 bp in the B*07:114 allele.

⁴⁶Primer mix 71: Specific PCR fragment of 245 bp in the B*07:108 allele. Specific PCR fragment of 280 bp in the B*07:107 allele. Specific PCR fragment of 390 bp in the B*07:181N allele.

⁴⁷Primer mix 73: Specific PCR fragment of 85 bp in the B*07:119 and *07:169 alleles. Specific PCR fragment of 240 bp in the B *07:49N allele.

⁴⁸Primer mix 74: Specific PCR fragment of 345 bp in the B*07:120 and the B*40:150 and 57:29 alleles. Specific PCR fragment of 425 bp in the B*07:156 allele.

⁴⁹Primer mix 75: Specific PCR fragment of 105 bp in the B*07:126 and 07:175 and the B*15:126 alleles. Specific PCR fragment of 250 bp in the B*07:121 allele.

⁵⁰Primer mix 76: Specific PCR fragment of 170 bp in the B*07:128 allele. Specific PCR fragment of 285 bp in the B*07:122 allele.

⁵¹Primer mix 77: Specific PCR fragment of 335 bp in the B*07:148 and the B*40:193[?] alleles. Specific PCR fragment of 405 bp in the B*07:116 allele.

⁵²Primer mix 78: Specific PCR fragment of 110 bp in the B*07:125 allele. Specific PCR fragment of 380 bp in the B*07:129 allele.

⁵³Primer mix 79: Specific PCR fragment of 65 bp in the B*07:130 allele. Specific PCR fragment of 95 bp in the B*07:119 allele.

‘w’, might be weakly amplified.

‘?’ , nucleotide sequence information not available for the primer matching sequence.

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*07:156	1	2	3	4	5																																			
*07:161N	1	2	3	4	5																																			
*07:162	1		3	4	5					10		12	13					18																						
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101.512-24/03– including *Taq* pol., IFU-01
101.512-24u/03u – without *Taq* pol., IFU-02

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Lot-specific information

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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	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
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Lot-specific information

For *In Vitro* Diagnostic Use.

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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	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
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*48:03:01-48:03:02						6		8		10					16								24							30											
*48:04, 48:13, 48:24						6							14		16															30	31										
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*48:06		2				6		8			11		14		16									24						30											
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*48:14		2				6		8				12	14		16									24						30											
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*48:17						6				10			13		16			18							24																
*48:18		2				6		8		10			14		16									24						30											
*48:19		2				6		8							16									24						30	31										
*48:21						6		8							16									24						30											
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*81:02	1	2			5			8					14											24						30										39	
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*81:06		2			5			8					14											24						30										39	
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C*04:77				4						10								18																							
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C*07:102				w																																					
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C*08:08													14													20					31										
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¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*07 subtyping.

In addition, wells number 4, 10, 14, 19, 24, 26, 27, 29 to 31, 47, 52, 53, 59, 62, 67, 70 and 77 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

²The sequence of B*0701 allele has been shown to be in error.

³HLA-B*07 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.12.0, April 2013.

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[illegible]

The B*07:63 and 07:143 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

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⁹The B*07:94 and 07:135 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 63.

¹⁰The B*07:102 and 07:106 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 69.

¹¹The B*07:107 and 07:181N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 71.

¹²The B*07:121 and 07:126 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 75.

¹³Primer mix 7: Specific PCR fragment of 105 bp in the B*07:04, 07:25, 07:52 and 07:146 and the B*40:136, 40:231 41:08 and 42:05:01-42:05:02 alleles. Specific PCR fragment of 215 bp in the B*07:29 and 07:186 alleles.

Primer mix 8: Specific PCR fragment of 160 bp in the B*07:59 allele. Specific PCR fragment of 235 bp in the B*07:05:01-07:06, 07:32, 07:34, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176 and 07:182N and the B*08:79, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29, 40:07, 40:10:01-40:10:02, 40:12, 40:14:01-40:16, 40:21-40:23, 40:25, 40:30, 40:34, 40:36, 40:38, 40:43, 40:45-40:49, 40:54-40:55, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114, 40:116-40:118N, 40:121, 40:123, 40:125-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:171, 40:175, 40:179, 40:182-40:183, 40:185-40:186, 40:188, 40:191-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:233-40:238, 41:08, 42:05:01-42:05:02, 44:31, 48:01:01-48:01:04, 48:03:01-48:03:02, 48:05-48:07, 48:09-48:12, 48:14-48:16, 48:18-48:22, 48:28-48:30 and 81:01-81:06 alleles.

Primer mix 10: Specific PCR fragment of 285 bp in the B*07:07, 07:12, 07:14, 07:18:01-07:18:02, 07:77, 07:137, 07:162-07:163 and the B*15:138, 15:230, 15:241, 18:35, 40:01:01-40:01:17, 40:01:19-40:01:29, 40:07, 40:10:01-40:10:02, 40:12, 40:14:01-40:14:03, 40:21-40:23, 40:25, 40:33, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:52, 40:54-40:55, 40:59, 40:60-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114, 40:116-40:118N, 40:121, 40:123-40:126, 40:128, 40:132, 40:134-40:136, 40:137, 40:138-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 40:182-40:183, 40:185-40:188, 40:191-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:234-40:238 41:08, 44:31, 44:150 46:06, 48:03:01-48:03:02, 48:17 48:23 and in the C*02:23, C*04:77, C*07:38:01-07:38:02 alleles. Specific PCR fragment of 415 bp in the B*07:47, 07:81 and the B*08:52, 38:41, 40:109² and 48:18 alleles

Primer mix 11: Specific PCR fragment of 130 bp in B*07:39 allele. Specific PCR fragment of 210 bp in the B*07:08, 07:10 07:32, 07:38 and the B*08:94, 18:07:01-18:07:02, 18:29, 18:79, 27:01-27:05:08, 27:05:10-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:23, 27:24-27:28, 27:30-27:36, 27:38-27:76, 27:78-27:84, 27:86-27:91, 27:93-27:100 27:102-27:105 35:50, 35:84, 35:162, 35:197, 37:21, 38:06-38:07, 39:58, 40:08, 40:13, 40:68, 40:162, 40:220, 40:232 48:06, 51:57, 51:103, 51:116, 53:21 and 73:01-73:02 alleles.

Primer mix 13: Specific PCR fragment of 85 bp in the B*07:31, 07:34 and 07:43 and the B*40:199, 41:08 and 42:05:01-42:05:02 and in the C*07:38:01-07:38:02 alleles. Specific PCR fragment of 290 bp in the B*07:12, 07:14, 07:18:01-07:18:02, 07:137 and 07:162-07:163 and the B*40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02, 44:150 and 48:17 alleles.

Primer mix 15: Specific PCR fragment of 385 bp in the B*07:54 and 07:123 and the B*45:06 alleles. Specific PCR fragment of 415 bp in the B *07:11, 07:47, 07:57 and 07:75 and the B*08:17, 08:47, 39:20 and 42:15 alleles.

Primer mix 17: Specific PCR fragment of 345 bp in the B*07:46 allele. Specific PCR fragment of 425 bp in the the B*07:11, 07:27, 07:57 and 07:75 and the B*08:17, 08:47, 38:17, 39:20 and 42:15 alleles.

Primer mix 19: Specific PCR fragment of 205 bp in the B*15:14, 15:91, 15:131, 15:161, 18:56, 35:45, 35:71, 35:169, 40:132, 40:178, 44:10, 44:14, 44:17, 44:31, 44:43:01-44:43:02, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 45:09, 45:14, 46:17, 51:23, 51:108, 52:15, 53:22, 57:07, 58:07 and 82:01-82:03 alleles. Specific PCR fragment of 250 bp in the B* 44:54, 44:106 and 44:158 alleles.

Specific PCR fragment of 205 and 250 bp in the B*07:20, 07:140 and 07:153 and the B*44:135 alleles. Specific PCR fragment of 250 and 295 bp in the B*07:35 allele.

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Primer mix 20: Specific PCR fragment of 160 bp in the B*07:59 allele. Specific PCR fragment of 205 bp in the B*07:51 and in the C*07:294 and C*08:08 alleles. Specific PCR fragment of 275 bp in the B*07:21 allele.

Primer mix 21: Specific PCR fragment of 100 bp in the B*07:52 allele. Specific PCR fragment of 165 bp in the B*07:22:01-07:22:02 alleles.

Primer mix 25: Specific PCR fragment of 305 bp in the B*07:117 allele. Specific PCR fragment of 425 bp in the B*07:27 and the B*38:17 and 40:188[?] alleles.

Primer mix 26: Specific PCR fragment of 95 bp in the B*07:28 and 07:118 and the B*08:14, 08:87, 27:32 and 40:180 alleles. Specific PCR fragment of 205 bp in the B*07:51 and in the C*07:294 and 08:08 alleles. Specific PCR fragment of 235 bp in the B*07:20, 07:24, 07:60, 07:100 and 07:131 and the B*08:21, 08:25, 15:07:01-15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207, 35:05:01-35:05:03, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 40:05, 40:71, 40:174, 44:158, 46:12, 51:64, 51:148, 53:14, 55:51 and 58:18 and in the C*03:05, C*03:25, C*03:27 and C*03:167 alleles. Specific PCR fragment of 290 bp in the B*07:42 allele. Specific PCR fragments of 95 and 235 bp in the B*44:54 and 44:106 and 44:135 alleles.

Primer mix 27: Specific PCR fragment of 165 bp in the B*07:41 allele. Specific PCR fragment of 215 bp in the B*07:29 and 07:186 alleles.

Primer mix 29: Specific PCR fragment of 85 bp in the B*07:31, 07:34 and 07:43 and the B*40:199 41:08 and 42:05:01-42:05:02 and in the C*07:38:01-07:38:02 alleles. Specific PCR fragment of 200 bp in the B*07:44 allele.

Primer mix 31: Specific PCR fragment of 215 bp in the B*07:55 and the B*08:70 and 48:19 alleles. Specific PCR fragment of 280 bp in the B*07:19, 07:33:01, 07:53, 07:60 and the B*08:103, 14:05, 14:13, 15:55, 18:14, 27:07:01-27:07:03, 27:11, 27:24, 27:32-27:34, 27:43, 35:05:01-35:05:03, 35:22, 35:31, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 37:09, 38:19, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 39:76, 40:02:01-40:03, 40:05, 40:08-40:09, 40:13, 40:18-40:19, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:39-40:40, 40:50, 40:56-40:58, 40:71, 40:78, 40:82, 40:85, 40:89-40:91, 40:94, 40:97, 40:104-40:105, 40:107, 40:111, 40:115, 40:119, 40:122, 40:133Q, 40:142N-40:145, 40:157, 40:164, 40:169, 40:173-40:174, 40:176, 40:180-40:181, 40:189, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224, 40:226, 40:229, 40:232, 42:08, 44:54, 44:106, 44:135, 44:158, 48:04, 48:13, 48:24, 51:64, 51:81, 51:148, 53:14, 55:04, 55:49, 55:51, 58:18, 58:27 and in the C*03:05, 03:25, 03:27, 03:167 and 08:08 alleles. Specific PCR fragments of 215 and 280 bp in the B*07:100 and the B*15:07:01-15:07:02, 15:45, 15:68, 15:126, 15:207 and 46:12 and in the C02:60 alleles.

Primer mix 33: Specific PCR fragment of 90 bp in the B*07:149 and the B*08:02, 13:36, 15:89, 15:115, 18:09, 38:02:01-38:02:05, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 38:43, 44:12, 51:54, 51:78:01-51:78:02, 53:09, 53:11-53:13 and 56:07 alleles. Specific PCR fragment of 350 bp in the B*07:61 allele.

Primer mix 35: Specific PCR fragment of 105 bp in the B*07:63 allele. Specific PCR fragment of 215 bp in the B*07:143 and the B*40:166, 42:02, 42:09, 42:17-42:18, 45:06, 54:02, 55:16 and 56:35 alleles.

Primer mix 36: Specific PCR fragment of 180 bp in the B*07:167N allele. Specific PCR fragment of 250 bp in the B*07:64 allele.

Primer mix 38: Specific PCR fragment of 190 bp in the B*07:103 and 07:113 and the B*08:64 alleles. Specific PCR fragment of 215 bp in the B*07:66 allele.

Primer mix 40: Specific PCR fragment of 265 bp in the B*07:56:01-07:56:02, 07:72 and the B*08:26, 08:56:01-08:56:02, 38:28, 39:63, 40:21[?], 40:58[?], 40:137[?], 41:12 and 49:03 alleles. Specific PCR fragment of 395 bp in the B*07:83 allele.

Primer mix 41: Specific PCR fragment of 400 bp in the B*07:58 allele. Specific PCR fragment of 425 bp in the B*07:156 allele.

Primer mix 42: Specific PCR fragment of 195 bp in the B*07:67N allele. Specific PCR fragment of 225 bp in the B*07:71 allele.

Primer mix 48: Specific PCR fragment of 200 bp in the B*07:76 allele. Specific PCR fragment of 280 bp in the B*07:77 and the B*40:60 and in the C*07:38:01-07:38:02 alleles.

Primer mix 50: Specific PCR fragment of 75 bp in the B*07:74 and the B*08:77 and 48:27 alleles. Specific PCR fragment of 105 bp in the B*07:175 and the 15:126 alleles. Specific PCR fragment of 165 bp in the B*07:87 allele.

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Primer mix 51: Specific PCR fragment of 345 bp in the B*07:97 allele. Specific PCR fragment of 470 bp in the B*07:93 and the B*08:39 and 38:27 alleles.

Primer mix 57: Specific PCR fragment of 150 bp in the B*07:109 allele. Specific PCR fragment of 215 bp in the B*07:70 allele.

Primer mix 58: Specific PCR fragment of 245 bp in the B*07:112 allele. Specific PCR fragment of 440 bp in the B*07:79 allele.

Primer mix 59: Specific PCR fragment of 95 bp in the B*07:115 and 07:182N and the B*08:69, 14:05, 38:19, 39:03, 39:24:01-39:24:02, 39:37, 39:76, 40:71, 41:18, 42:06, 42:20 and 48:07 and in the C*08:08 alleles. Specific PCR fragment of 190 bp in the B*07:89 and 07:113 and the B*08:64 alleles.

Primer mix 61: Specific PCR fragment of 205 bp in the B*07:88 allele. Specific PCR fragment of 420 bp in the B*07:105 allele.

Primer mix 63: Specific PCR fragment of 65 bp in the B*07:94 and in the C*03:124, C*04:49, C*05:15, C*07:262 and C*12:95 alleles. Specific PCR fragment of 230 bp in the B*07:135N allele.

Primer mix 65: Specific PCR fragment of 385 bp in the B*07:54 and 07:123 and the B*45:06 alleles. Specific PCR fragment of 450 bp in the B*07:111N allele.

Primer mix 68: Specific PCR fragment of 335 bp in the B*07:148 and the B*40:193[?] alleles

Specific PCR fragment of 365 bp in the B*07:101 allele. Specific PCR fragment of 415 bp in the B*07:13, 07:15 and 07:160 and the B*08:16, 42:18 and 67:02 alleles.

Primer mix 69: Specific PCR fragment of 190 bp in the B*07:106 allele. Specific PCR fragment of 245 bp in the B*07:108 allele. Specific PCR fragment of 465 bp in the B*07:102 and the B*08:18 and 73:01-73:02 alleles.

Primer mix 70: Specific PCR fragment of 125 bp in the B*07:104 allele. Specific PCR fragment of 205 bp in the B*07:114 allele.

Primer mix 71: Specific PCR fragment of 245 bp in the B*07:108 allele. Specific PCR fragment of 280 bp in the B*07:107 allele. Specific PCR fragment of 390 bp in the B*07:181N allele.

Primer mix 73: Specific PCR fragment of 85 bp in the B*07:119 and *07:169 alleles. Specific PCR fragment of 240 bp in the B *07:49N allele.

Primer mix 74: Specific PCR fragment of 345 bp in the B*07:120 and the B*40:150 and 57:29 alleles. Specific PCR fragment of 425 bp in the B*07:156 allele.

Primer mix 75: Specific PCR fragment of 105 bp in the B*07:126 and 07:175 and the B*15:126 alleles. Specific PCR fragment of 250 bp in the B*07:121 allele.

Primer mix 76: Specific PCR fragment of 170 bp in the B*07:128 allele. Specific PCR fragment of 285 bp in the B*07:122 allele.

Primer mix 77: Specific PCR fragment of 335 bp in the B*07:148 and the B*40:193[?] alleles. Specific PCR fragment of 405 bp in the B*07:116 allele.

Primer mix 78: Specific PCR fragment of 110 bp in the B*07:125 allele. Specific PCR fragment of 380 bp in the B*07:129 allele.

Primer mix 79: Specific PCR fragment of 65 bp in the B*07:130 allele. Specific PCR fragment of 95 bp in the B*07:119 allele.

‘w’, might be weakly amplified.

‘?’, nucleotide sequence information not available for the primer matching sequence.

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Lot-specific information

Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product(s)	395	285	235	105	220	215	105	160	355	285	130	225
							215	235		415	210	
Length of int. pos. control ¹	800	1070	1070	800	1070	1070	1070	1070	1070	800	1070	1070
5'-primer(s) ²	44	363	412	540	103	103	97	412	693	44	103	419
	5'-ggC 3'	5'-AgC 3'	5'-ATg 3'	5'-Cgg 3'	5'-CCT 3'	5'-CCT 3'	5'-TCg 3'	5'-ATA 3'	5'-ggT 3'	5'-ggC 3'	5'-CCT 3'	5'-gTC 3'
					103	103	540	636		363	103	
					5'-CCT 3'	5'-CCT 3'	5'-gAC 3'	5'-CAC 3'		5'-Agg 3'	5'-CCT 3'	
							545			363		
							5'-AgT 3'			5'-Agg 3'		
3'-primer(s) ³	272	605	605	605	282	277	272	605	916	287	191	605
	5'-TgT 3'	5'-gCT 3'	5'-gCT 3'	5'-gCT 3'	5'-gCC 3'	5'-ggT 3'	5'-TgT 3'	5'-gCT 3'	5'-gAT 3'	5'-TCC 3'	5'-CgA 3'	5'-gCT 3'
							605	754		302	272	
							5'-gCT 3'	5'-AgA 3'		5'-ggC 3'	5'-TgC 3'	
										605	272	
										5'-gCT 3'	5'-TgA 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product(s)	85	215	385	230	345	265	205	160	100	385	85	125
	290		415		425		250	205	165			
							295	275				
Length of int. pos. control ¹	1070	800	1070	1070	1070	1070	800	1070	1070	1070	1070	800
5'-primer(s) ²	355	363	44	103	44	379	363	25	481	322	560	103
	5'-TCA 3'	5'-AgC 3'	5'-ggC 3'	5'-CCT 3'	5'-ggC 3'	5'-ACC 3'	5'-AgC 3'	5'-CCg 3'	5'-CgA 3'	5'-gCC 3'	5'-CCT 3'	5'-CCT 3'
	560	363		103			409	363	545			103
	5'-CAC 3'	5'-AgC 3'		5'-CCT 3'			5'-ggC 3'	5'-AgC 3'	5'-AgT 3'			5'-CCT 3'
								636				527
								5'-CAC 3'				5'-TgT 3'
3'-primer(s) ³	605	539	259	292	218	605	572	131	605	419	605	191
	5'-gCT 3'	5'-TCA 3'	5'-CTC 3'	5'-gTA 3'	5'-gCA 3'	5'-gCT 3'	5'-gCg 3'	5'-ggA 3'	5'-gCT 3'	5'-CgT 3'	5'-gCT 3'	5'-CgA 3'
			287	292	301		616	527				605
			5'-TCC 3'	5'-gTA 3'	5'-gTC 3'		5'-AgA 3'	5'-CCg 3'				5'-gCT 3'
			302	292	302			754				
			5'-ggT 3'	5'-gTA 3'	5'-ggT 3'			5'-AgA 3'				
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product(s)	305	95	165	110	85	190	215	190	90	155	105	180
	425	205	215		200		280		350		215	250
		235										
		290										
Length of int. pos. control ¹	1070	800	800	1070	800	800	800	1070	1070	1070	1070	1070
5'-primer(s) ²	44	363	97	215	560	412	363	412	261	483	97	363
	5'-ggC 3'	5'-AgC 3'	5'-TCg 3'	5'-gCC 3'	5'-CAC 3'	5'-ATA 3'	5'-AgC 3'	5'-ATA 3'	5'-AAC 3'	5'-gAA 3'	5'-TCC 3'	5'-AgC 3'
			148		852				756	503	207	
			5'-TgC 3'		5'-CAg 3'				5'-ACT 3'	5'-CCg 3'	5'-gAC 3'	
3'-primer(s) ³	181	418	272	282	605	559	538	559	311	605	272	502
	5'-gTT 3'	5'-gTC 3'	5'-TgT 3'	5'-gCC 3'	5'-gCT 3'	5'-CTC 3'	5'-CCA 3'	5'-CgT 3'	5'-Cgg 3'	5'-gCT 3'	5'-TgT 3'	5'-CTA 3'
	301	527			916		603		970			570
	5'-gTC 3'	5'-CCg 3'			5'-gAC 3'		5'-gTC 3'		5'-TCT 3'			5'-CCg 3'
		559										
		5'-CAg 3'										
		613										
		5'-gCT 3'										
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

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Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product(s)	210	190 215	425	265 395	400 425	195 225	140	150	105	425	215	200 280
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070
5'-primer(s) ²	141 5'-ATT 3'	363 5'-AgC 3'	272 5'-CTA 3'	44 5'-ggC 3'	625 5'-CCg 3'	89 5'-gAC 3'	363 5'-AgC 3'	165 5'-ACC 3'	206 5'-AgA 3'	44 5'-ggC 3'	363 5'-AgC 3'	113 5'-CCA 3'
					650 5'-CCT 3'	118 5'-C.g 3'						368 5'-gTC 3'
3'-primer(s) ³	311 5'-ggT 3'	506 5'-Tgg 3'	412 5'-gTT 3'	142 5'-TgC 3'	916 5'-gAC 3'	272 5'-TgT 3'	463 5'-gCT 3'	272 5'-TgC 3'	272 5'-Tgg 3'	299 5'-TCA 3'	538 5'-gTC 3'	272 5'-TgT 3'
		516 5'-gCg 3'		272 5'-TgA 3'								605 5'-gCT 3'
		539 5'-TCT 3'										
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product(s)	200	75 105 165	345 470	290	235	185	260	230	150 215	245 440	95 190	145
Length of int. pos. control ¹	1070	1070	1070	800	800	1070	1070	1070	1070	1070	800	1070
5'-primer(s) ²	341 5'-ggg 3'	363 5'-AgC 3'	44 5'-ggC 3'	355 5'-CCT 3'	409 5'-ggT 3'	363 5'-AgC 3'	386 5'-gCA 3'	363 5'-AgC 3'	98 5'-CTg 3'	44 5'-ggC 3'	363 5'-AgC 3'	167 5'-gCT 3'
									161 5'-Cgg 3'			
3'-primer(s) ³	2 nd I 5'-TCg 3'	398 5'-ggC 3'	221 5'-ACC 3'	605 5'-gCT 3'	605 5'-gCT 3'	502 5'-CTA 3'	605 5'-gCT 3'	544 5'-ggT 3'	272 5'-TgT 3'	121 5'-gCC 3'	419 5'-CgA 3'	272 5'-TgT 3'
		425 5'-CgC 3'	343 5'-T 3'			513 5'-TCA 3'		559 5'-CAg 3'		317 5'-ggC 3'	420 5'-gCT 3'	
		488 5'-CCA 3'									506 5'-Tgg 3'	
											514 5'-CTT 3'	
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec. PCR product(s)	205 420	415	65 230	210	385 450	435	230	335 365	190 245	125 205	245 280	165
Length of int. pos. control ¹	1070	800	1070	1070	1070	1070	800	1070	1070	800	1070	1070
5'-primer(s) ²	44 5'-ggC 3'	44 5'-ggC 3'	256 5'-ACT 3'	103 5'-CCT 3'	44 5'-ggC 3'	44 5'-ggC 3'	44 5'-ggC 3'	44 5'-ggC 3'	44 5'-ggC 3'	106 5'-CCA 3'	44 5'-ggC 3'	103 5'-CCT 3'
			363 5'-AgC 3'	103 5'-CCT 3'					363 5'-AgC 3'	188 5'-Cgg 3'	363 5'-AgC 3'	103 5'-CCT 3'
3'-primer(s) ³	82 5'-ggC 3'	292 5'-gTA 3'	282 5'-gCC 3'	272 5'-TgC 3'	259 5'-CTC 3'	309 5'-ATC 3'	106 5'-CAT 3'	212 5'-gCA 3'	119 5'-ggT 3'	272 5'-TgT 3'	119 5'-ggT 3'	226 5'-CAC 3'
	293 5'-ggA 3'	292 5'-gTA 3'	553 5'-CTA 3'		327 5'-TTT 3'			241 5'-CgA 3'	341 5'-CgT 3'		265 5'-CTA 3'	
		292 5'-gTA 3'						289 5'-AgC 3'	511 5'-CCg 3'		603 5'-TTC 3'	
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

101.512-24/03– including *Taq* pol., IFU-01
 101.512-24u/03u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **74S**

Lot-specific information

Well No.	73	74	75	76	77	78	79	80
Length of	85	345	105	170	335	110	65	405
spec. PCR	240	425	250	285	405	380	95	
product(s)								
Length of int.	1070	1070	1070	1070	800	1070	1070	1070
pos. control ¹								
5'-primer(s) ²	244	625	363	363	44	206	244	693
	5'-CgC 3'	5'-CCg 3'	5'-AgC 3'	5'-AgC 3'	5'-ggC 3'	5'-AgA 3'	5'-CgC 3'	5'-ggT 3'
	693	704		880		671	693	
	5'-ggT 3'	5'-TgT 3'		5'-CCT 3'		5'-CAg 3'	5'-ggT 3'	
3'-primer(s) ³	299	916	425	607	212	277	299	962
	5'-TCT 3'	5'-gAC 3'	5'-CgC 3'	5'-CAC 3'	5'-gCA 3'	5'-ggT 3'	5'-TCT 3'	5'-CAA 3'
	728		427	916	278	916	719	
	5'-CCT 3'		5'-gTT 3'	5'-gAC 3'	5'-ggA 3'	5'-gAC 3'	5'-AgA 3'	
	893		571					
	5'-CCT 3'		5'-CCg 3'					
Well No.	73	74	75	76	77	78	79	80

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*07 subtyping.

In addition, wells number 4, 10, 14, 19, 24, 26, 27, 29 to 31, 47, 52, 53, 59, 62, 67, 70 and 77 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

²The nucleotide position, in the 1st, 2nd, 3rd or 4th exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in 2nd, 3rd, 4th or 5th exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

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Lot-specific information

[illegible]

101.512-24/03– including *Taq* pol., IFU-01
 101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **74S**

Lot-specific information

CELL LINE VALIDATION SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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						17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

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Lot-specific information

[illegible]

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Lot-specific information

[illegible]

101.512-24/03– including *Taq* pol., IFU-01
 101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **74S**

Lot-specific information

CELL LINE VALIDATION SHEET																							
HLA-B*07 SSP subtyping kit																							
						Well																	
						65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80		
					Prod. No.:	201314165	200967566	201297067	201314168	201323569	201297070	201323571	201297072	201314173	201314174	201314175	201297076	201314177	201297078	201314179	201314180		
	IHC cell line		B*																				
1	9001	SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	9280	LK707	*52:01		*73:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-		
3	9011	E4181324	*52:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	9275	GU373	*15:10		*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	9009	KAS011	*37:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
6	9353	SM	*39:01		*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
7	9020	QBL	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
8	9025	DEU	*35:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9	9026	YAR	*38:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10	9107	LKT3	*54:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
11	9051	PITOUT	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
12	9052	DBB	*57:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
13	9025	JESTHOM	*27:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14	9071	OLGA	*15:01		*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
15	9075	DKB	*40:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-		
16	9037	SWEIG007	*40:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
17	9282	CTM3953540	*08:01		*55:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-		
18	9257	32367	*14:01		*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
19	9038	BM16	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
20	9059	SLE005	*40:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-		
21	9064	AMALA	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
22	9056	KOSE	*35:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
23	9124	IHL	*40:02		*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
24	9035	JBUSH	*38:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
25	9049	IBW9	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
26	9285	WT49	*58:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
27	9191	CH1007	*07:05		*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
28	9320	BEL5GB	*44:02		*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
29	9050	MOU	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
30	9021	RSH	*42:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
31	9019	DUCAF	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
32	9297	HAG	*41:02			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-		
33	9098	MT14B	*40:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-		
34	9104	DHIF	*38:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
35	9302	SSTO	*44:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
36	9024	KT17	*15:01		*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
37	9065	HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
38	9099	LZL	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
39	9315	CML	*08:01		*27:05	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-		
40	9134	WHONP199	*13:02		*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
41	9055	H0301	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
42	9066	TAB089	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
43	9076	T7526	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
44	9057	TEM	*38:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
45	9239	SHJO	*42:01		*50:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-		
46	9013	SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
47	9045	TUBO	*51:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
48	9303	TER-ND	*35:01		*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

101.512-24/03– including *Taq* pol., IFU-01
 101.512-24u/03u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **74S**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*07 SSP

Product number: 101.512-24/03 – including *Taq* pol.
 101.512-24u/03u – without *Taq* pol.
 Lot number: 74S
 Expiry date: 2016-March-01
 Number of tests: 24 tests – Product No. 101.512-24/24u
 3 tests – Product No. 101.512-03/03u
 Number of wells per test: 80

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-675-01	31	2009-675-31	61	2011-821-61
2	2009-675-02	32	2009-675-32	62	2009-675-62
3	2009-675-03	33	2013-141-33	63	2012-970-63
4	2009-675-04	34	2009-675-34	64	2012-970-64
5	2009-675-05	35	2013-235-35	65	2013-141-65
6	2009-675-06	36	2013-141-36	66	2009-675-66
7	2013-141-07	37	2009-675-37	67	2012-970-67
8	2009-675-08	38	2011-821-38	68	2013-141-68
9	2012-970-09	39	2013-235-39	69	2013-235-69
10	2009-675-10	40	2009-675-40	70	2012-970-70
11	2009-675-11	41	2013-235-41	71	2013-235-71
12	2009-675-12	42	2009-675-42	72	2012-970-72
13	2009-675-13	43	2009-675-43	73	2013-141-73
14	2011-821-14	44	2009-675-44	74	2013-141-74
15	2009-675-15	45	2009-675-45	75	2013-141-75
16	2009-675-16	46	2009-675-46	76	2012-970-76
17	2009-675-17	47	2009-675-47	77	2013-141-77
18	2009-675-18	48	2012-970-48	78	2012-970-78
19	2009-675-19	49	2009-675-49	79	2013-141-79
20	2009-675-20	50	2013-141-50	80	2013-141-80
21	2013-141-21	51	2009-675-51		
22	2009-675-22	52	2011-821-52		
23	2009-675-23	53	2009-675-53		
24	2009-675-24	54	2013-141-54		
25	2011-821-25	55	2009-675-55		
26	2012-970-26	56	2012-970-56		
27	2012-970-27	57	2011-821-57		
28	2009-675-28	58	2013-235-58		
29	2011-821-29	59	2013-235-59		
30	2009-675-30	60	2009-675-60		

The specificity of each primer solution of the kit has been tested against 48 well characterized cell line DNAs.

101.512-24/03– including *Taq* pol., IFU-01
101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 74S**Lot-specific information**

No DNAs carrying the alleles to be amplified by primer solutions 7, 12, 13, 15, 17, 18, 20 to 23, 25, 27 to 29, 34, 36, 38, 40 to 42, 48 to 55, 57 to 61, 63, 65, 68 and 70 to 80 were available.

The specificities of the primers in primer solutions 7, 12, 13, 15, 17, 18, 20, 21, 23, 25, 27, 29, 36, 38, 40, 48, 50 to 53, 57, 59, 60, 63, 68, 70, 72, 73 and 75 to 79 were tested by separately adding additional 5'-primers, respectively additional 3'-primers. In primer solutions 54, 58, 61, 65, 71 and 80 it was only possible to test the 5'-primer, the 3'-primer were not possible to test. In primer solutions 22, 28, 34, 41, 42, 49, 55 and 74 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 21, 27, 29, 35, 48, 57, 63, 70, 73, 76, 78 and 79 one or two 5'-primers were not possible to test, and in primer solutions 8, 10, 11, 15, 17, 19, 20, 24 to 26, 33, 36, 38, 40, 50, 51, 56, 59, 63, 68, 69, 73 and 75 to 79 one or two 3'-primers were not possible to test. Additional primers in primer solutions 8, 10, 11, 19, 24, 26, 31, 33 and 69 were tested by separately adding one additional 5'-primer, or one additional 3'-primer.

Results: No false positive or false negative amplifications were obtained.

Date of approval: 2013-September-12

Approved by:

Production Quality Control

101.512-24/03– including *Taq* pol., IFU-01
101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **74S**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*07
Product number: 101.512-24/24u, 03/03u
Lot number: 74S

Intended use: HLA-B*07 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Franzengatan 5
SE-112 51 Stockholm, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2012, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom.
(Notified Body number: 0088.)

Stockholm, Sweden
2013-September-12

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.512-24/03– including *Taq* pol., IFU-01
101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **74S**

Lot-specific information

101.512-24/03– including *Taq* pol., IFU-01
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101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **74S**

Lot-specific information

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For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH**.