

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.: **32N**

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:	32N
Expiry date:	2014-August-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:	79
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. 32N.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] HLA-B*07 LOT

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

Seven wells have been added to the HLA-B*07 kit, wells **73 to 79**.

The Lot-specific information for HLA- B*07 including and without *Taq* polymerase is now described in one common Product Insert.

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. 03L**).

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

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Well	5'-primer	3'-primer	rationale
9	Moved	Moved	Primer pair moved to well 73, for improved allelic solution.
54	Moved	Moved	Primer pair moved to well 73, for decreased tendencies of primer oligomer formation.
63	Added	Added	Primer pair added for the B*07:135N allele.
64	-	Added	Increased yield of specific PCR product.
67	-	-	Exchanged positive control primer pair.
73	New	New	Primer pair from well 9.
74	New	New	New primer pair for the B*07:120 allele.
75	New	New	New primer pairs for the B*07:121 and B*07:126 alleles.
76	New	New	New primer pairs for the B*07:122 and B*07:128 alleles.
77	New	New	Primer pair from well 54.
78	New	New	New primer pairs for the B*07:125 and B*07:129 alleles.
79	New	New	New primer pairs for the B*07:130 alleles.

Change in revision R01 compared to R00:

1. Primer mix 14 amplifies the B*39:03, 39:14, 39:24:01-39:24:02 and 40:90 alleles. This has been corrected in the Specificity and Interpretation tables.

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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*07:144 alleles.

PLATE LAYOUT

Each test consists of 79 PCR reactions in a 96 well cut PCR plate. Wells 80 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	empty
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 ‘32N’.

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.

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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, the B*18, the 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, three B*53, most B*54, most B*55, eight B*56, three B*57, four B*58, most 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*03:05, C*03:25 and C*03:27 alleles will be amplified by primer mixes 14, 26, 31 and 56, the C*03:124, C*04:49 and C*05:15 alleles will be amplified by primer mix 63, the C*03:137 allele will be amplified by primer mixes 5 and 72, the C*04:77 allele will be amplified by primer mixes 4, 10, 18 and 53, the C*07:38 allele will be amplified by primer mixes 10, 12, 13, 18, 29, 48 and 53, the C*07:102 allele will be weakly amplified by primer mixes 5 and 72, 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*07:144**, recognized by the HLA Nomenclature Committee in January 2012¹ 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*07:102 and 07:106 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 69.

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, 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*07:68:01-07:68:03 or the B*07:96:01-07:96:02 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2012-January-12, release 3.7.0, 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
B*07:02:01	Confirmed	B*07:18:02	Confirmed	B*07:67N	Unconfirmed	B*07:114	Unconfirmed
B*07:02:02	Confirmed	B*07:19	Confirmed	B*07:68:01	Confirmed	B*07:115	Unconfirmed
B*07:02:03	Confirmed	B*07:20	Confirmed	B*07:68:02	Confirmed	B*07:116	Unconfirmed
B*07:02:04	Unconfirmed	B*07:21	Unconfirmed	B*07:68:03	Confirmed	B*07:117	Unconfirmed
B*07:02:05	Unconfirmed	B*07:22:01	Unconfirmed	B*07:69	Confirmed	B*07:118	Unconfirmed
B*07:02:06	Unconfirmed	B*07:22:02	Confirmed	B*07:70	Unconfirmed	B*07:119	Unconfirmed
B*07:02:07	Confirmed	B*07:23	Unconfirmed	B*07:71	Confirmed	B*07:120	Unconfirmed
B*07:02:08	Confirmed	B*07:24	Confirmed	B*07:72	Confirmed	B*07:121	Unconfirmed
B*07:02:09	Unconfirmed	B*07:25	Unconfirmed	B*07:73	Confirmed	B*07:122	Confirmed
B*07:02:10	Confirmed	B*07:26	Confirmed	B*07:74	Confirmed	B*07:123	Unconfirmed
B*07:02:11	Unconfirmed	B*07:27	Unconfirmed	B*07:75	Unconfirmed	B*07:124	Unconfirmed
B*07:02:12	Unconfirmed	B*07:28	Unconfirmed	B*07:76	Confirmed	B*07:125	Confirmed
B*07:02:13	Confirmed	B*07:29	Unconfirmed	B*07:77	Confirmed	B*07:126	Confirmed
B*07:02:14	Confirmed	B*07:30	Unconfirmed	B*07:78	Unconfirmed	B*07:127	Unconfirmed
B*07:02:15	Confirmed	B*07:31	Confirmed	B*07:79	Unconfirmed	B*07:128	Unconfirmed
B*07:02:16	Unconfirmed	B*07:32	Confirmed	B*07:80	Confirmed	B*07:129	Unconfirmed
B*07:02:17	Confirmed	B*07:33	Confirmed	B*07:81	Unconfirmed	B*07:130	Unconfirmed
B*07:02:18	Unconfirmed	B*07:34	Unconfirmed	B*07:82	Unconfirmed	B*07:131	Unconfirmed
B*07:02:19	Unconfirmed	B*07:35	Unconfirmed	B*07:83	Unconfirmed	B*07:132	Unconfirmed
B*07:02:20	Unconfirmed	B*07:36	Confirmed	B*07:84	Unconfirmed	B*07:133	Unconfirmed
B*07:02:21	Confirmed	B*07:37	Confirmed	B*07:85	Unconfirmed	B*07:134	Unconfirmed
B*07:02:22	Unconfirmed	B*07:38	Confirmed	B*07:86	Confirmed	B*07:135N	Unconfirmed
B*07:02:23	Confirmed	B*07:39	Unconfirmed	B*07:87	Confirmed	B*07:136	Unconfirmed
B*07:02:24	Unconfirmed	B*07:40	Unconfirmed	B*07:88	Confirmed	B*07:137	Unconfirmed
B*07:02:25	Unconfirmed	B*07:41	Unconfirmed	B*07:89	Unconfirmed	B*07:138	Unconfirmed
B*07:02:26	Unconfirmed	B*07:42	Confirmed	B*07:90	Unconfirmed	B*07:139	Unconfirmed
B*07:02:27	Confirmed	B*07:43	Confirmed	B*07:91	Unconfirmed	B*07:140	Unconfirmed
B*07:02:28	Confirmed	B*07:44	Unconfirmed	B*07:92	Confirmed	B*07:141	Unconfirmed
B*07:02:29	Unconfirmed	B*07:45	Unconfirmed	B*07:93	Unconfirmed	B*07:142	Unconfirmed
B*07:03	Confirmed	B*07:46	Unconfirmed	B*07:94	Confirmed	B*07:143	Unconfirmed
B*07:04	Confirmed	B*07:47	Confirmed	B*07:95	Confirmed	B*07:144	Unconfirmed
B*07:05:01	Confirmed	B*07:48	Confirmed	B*07:96:01	Confirmed		
B*07:05:02	Unconfirmed	B*07:49N	Unconfirmed	B*07:96:02	Unconfirmed		
B*07:05:03	Unconfirmed	B*07:50	Unconfirmed	B*07:97	Unconfirmed		
B*07:05:04	Unconfirmed	B*07:51	Confirmed	B*07:98	Confirmed		
B*07:05:05	Confirmed	B*07:52	Unconfirmed	B*07:99	Unconfirmed		
B*07:05:06	Unconfirmed	B*07:53	Confirmed	B*07:100	Unconfirmed		
B*07:06	Confirmed	B*07:54	Confirmed	B*07:101	Unconfirmed		
B*07:07	Confirmed	B*07:55	Unconfirmed	B*07:102	Confirmed		
B*07:08	Confirmed	B*07:56	Unconfirmed	B*07:103	Confirmed		
B*07:09	Confirmed	B*07:57	Confirmed	B*07:104	Unconfirmed		
B*07:10	Confirmed	B*07:58	Unconfirmed	B*07:105	Confirmed		
B*07:11	Unconfirmed	B*07:59	Unconfirmed	B*07:106	Confirmed		
B*07:12	Confirmed	B*07:60	Unconfirmed	B*07:107	Unconfirmed		
B*07:13	Confirmed	B*07:61	Unconfirmed	B*07:108	Unconfirmed		
B*07:14	Confirmed	B*07:62	Confirmed	B*07:109	Confirmed		
B*07:15	Confirmed	B*07:63	Confirmed	B*07:110	Confirmed		
B*07:16	Confirmed	B*07:64	Confirmed	B*07:111N	Confirmed		
B*07:17	Confirmed	B*07:65	Unconfirmed	B*07:112	Unconfirmed		
B*07:18:01	Unconfirmed	B*07:66	Confirmed	B*07:113	Unconfirmed		

¹ Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-January-12, release 3.7.0, 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 79 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, 07:04-07:07, 07:09, 07:10 ^w , 07:11-07:12, 07:14-07:15, 07:17-07:26, 07:28-07:31, 07:33-07:36, 07:39-07:49N, 07:51-07:64, 07:66-07:68:03, 07:70-07:82, 07:84, 07:86-07:124, 07:126-07:144	*14:21, 38:26, 40:166 [?] , 42:01:01-42:02, 42:04-42:06, 42:08-42:10, 42:12-42:16, 45:06, 67:01:01-67:01:02, 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, 07:140-07:144	*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, 48:01:01-48:01:03, 48:05-48:12, 48:14-48:16, 48:18-48:20, 48:22, 48:27, 81:01-81:05
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, 07:116-07:121, 07:124-07:136, 07:141-07:144	*15:138, 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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4⁶	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, 07:56-07:59, 07:61-07:65, 07:67N- 07:79, 07:81-07:99, 07:101-07:121, 07:123- 07:130, 07:132-07:138, 07:140-07:144	*08:79, 35:66, 37:07, 40:15-40:16, 40:23, 40:32, 40:98, 40:128, 48:05, 48:08, C*04:77
5⁷	220 bp	1070 bp	*07:02:01-07:02:29, 07:04-07:07, 07:09- 07:15, 07:17-07:26, 07:28, 07:30-07:31, 07:33-07:36, 07:39- 07:49N, 07:51-07:64, 07:66-07:68:03, 07:73- 07:84, 07:87-07:144	*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, 27:78-27:86, 38:26, 42:01:01-42:02, 42:04-42:06, 42:08-42:10, 42:12- 42:16, 54:02, 55:10, 67:01:01- 67:03, 73:01-73:02, 81:01-81:05, C*03:137, C*07:102^w
6	215 bp	1070 bp	*07:03, 07:08, 07:16, 07:27, 07:32, 07:38, 07:50, 07:69, 07:85	*13:14, 14:01:01-14:01:02, 14:07N- 14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 15:68, 15:71, 15:175, 18:01:01-18:01:12, 18:01:14-18:03, 18:05-18:15, 18:17N-18:24, 18:26- 18:67, 27:12, 27:16, 27:18, 27:23, 27:29, 35:50, 35:84, 35:162, 37:01:01-37:31, 38:01:01-38:04, 38:06-38:25, 38:27-38:32, 38:35- 38:37, 39:01:01:01-39:01:01:02L, 39:01:03-39:03, 39:05:01-39:11, 39:13:01-39:20, 39:22-39:51, 39:53- 39:62, 39:64-39:68, 40:02:01- 40:06:04, 40:08-40:09, 40:11:01- 40:11:02, 40:13, 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,

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7^{6,12}	105 bp, 215 bp	1070 bp	*07:04, 07:25, 07:29, 07:52	*40:136, 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	*08:79, 40:01:01-40:01:20, 40:01:22-40:01:23, 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, 40:166, 40:168, 40:170-40:171, 40:175, 40:179, 41:08, 42:05:01-42:05:02, 44:31, 48:01:01-48:01:03, 48:03:01-48:03:02, 48:05-48:07, 48:09-48:12, 48:14-48:16, 48:18-48:22, 81:01-81:05
9⁸	355 bp	1070 bp	*07:05:01-07:05:06	*35:46, 37:07
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	*08:52, 15:138, 15:230, 18:35, 40:01:01-40:01:17, 40:01:19-40:01:23, 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, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 41:08, 44:31, 46:06, 48:03:01-48:03:02,

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				48:17-48:18, 48:23, C*02:23, C*04:77, C*07:38
11¹⁵	130 bp, 210 bp	1070 bp	*07:08, 07:10, 07:32, 07:38-07:39	*18:07:01-18:07:02, 18:29, 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, 35:50, 35:84, 35:162, 37:21, 38:06-38:07, 39:58, 40:08, 40:13, 40:68, 40:162, 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	*15:138, 18:35, 35:66, 40:38, 40:52, 40:59-40:60, 40:158, 46:06, 48:14, 48:23, C*07:38
13^{6,16}	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, 41:08, 42:05:01-42:05:02, 48:17, C*07:38
14⁹	215 bp	800 bp	*07:26, 07:34, 07:43, 07:48, 07:80, 07:131	*08:13, 08:25, 14:05, 14:13, 15:55, 18:14, 18:22, 27:07:01-27:07:02, 27:11, 27:24, 27:32-27:34, 27:43, 35:05:01-35:05:02, 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, 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, 44:54, 44:110, 44:135, 48:01:01-48:01:03, 48:04, 48:06-48:07, 48:09-48:16, 48:18, 48:20, 48:22, 48:24, 48:27, 51:64, 51:81, 53:14, 55:04, 55:49, 55:51, 58:18, 58:27, 81:01-81:05, C*03:05, C*03:25, C*03:27, 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,	*13:14, 14:14, 15:68, 15:71, 15:175, 18:01:01, 18:01:03-18:01:12,

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07:91			18:01:14-18:02, 18:05-18:15, 18:17N-18:24, 18:26-18:67, 27:01, 27:18, 27:23, 27:29, 27:44, 35:50, 35:84, 35:162, 37:01:01-37:31, 38:01:01-38:02:03, 38:04, 38:06-38:12, 38:15-38:25, 38:27-38:32, 38:34N-38:37, 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, 40:02:01-40:06:04, 40:08-40:09, 40:11:01-40:11:02, 40:13, 40:18-40:20, 40:24, 40:26-40:29, 40:35, 40:37, 40:39-40:40, 40:44, 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, 40:103-40:105, 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, 42:11, 44:103, 44:130-44:131, 48:01:01-48:21, 48:23-48:27, 51:57, 51:103, 51:116, 53:21, 57:10	
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	*35:66, 40:59-40:60, 40:125, 48:17, C*02:23, C*04:77, C*07:38
19¹⁹	205 bp, 250 bp, 295 bp	800 bp	*07:20, 07:35, 07:140	*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, 45:09, 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*08:08
21^{6,21}	100 bp, 165 bp	1070 bp	*07:22:01-07:22:02, 07:52	

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22	385 bp	1070 bp	*07:23	*40:79, 41:14
23⁶	85 bp	1070 bp	*07:20, 07:24, 07:131	*15:230, 40:63
24^{6,7}	125bp	800 bp	*07:25, 07:39, 07:48	*18:35, 27:36, 35:66, 40:01:01-40:01:19, 40:01:21-40:01:23, 40:07, 40:10:01-40:10:02, 40:12, 40:14:01-40:14:03, 40:21-40:22N, 40:25, 40:30-40:31, 40:33-40:34, 40:36, 40:38, 40:42-40:43, 40:45-40:49, 40:52, 40:54-40:55, 40:59-40:63, 40:65-40:66, 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, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:160, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 41:08, 42:05:01-42:05:02, 44:31, 46:06, 48:01:01-48:01:03, 48:03:01-48:03:02, 48:06-48:07, 48:09-48:12, 48:14, 48:16-48:23, 48:26-48:27, 81:01-81:05
25^{10,22}	305 bp, 425 bp	1070 bp	*07:27, 07:117	*38:17
26^{6,9,11,23}	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, 15:07:01-15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207, 27:32, 35:05:01-35:05:02, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 40:05, 40:71, 40:174, 40:180, 44:54, 44:106, 44:135, 46:12, 51:64, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*08:08
27²⁴	165 bp, 215 bp	800 bp	*07:29, 07:41	
28^{6,9}	110 bp	1070 bp	*07:30	
29^{6,7,9,25}	85 bp, 200 bp	800 bp	*07:31, 07:34, 07:43-07:44	*41:08, 42:05:01-42:05:02, C*07:38
30	190 bp	800 bp	*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140	*08:40, 08:79, 13:01:01-13:01:02, 13:01:04-13:02:12, 13:07N-13:09, 13:11, 13:13-13:23, 13:25, 13:27-13:33, 13:36-13:45, 13:47, 13:49N-13:50, 13:52, 27:07:01-27:07:02, 27:11, 27:20, 27:24, 27:27, 27:33,

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31²⁶	215 bp, 280 bp	800 bp	*07:19, 07:33, 07:53, 07:55, 07:60, 07:100	*08:70, 14:05, 14:13, 15:07:01-15:07:02, 15:45, 15:55, 15:68, 15:126, 15:207, 18:14, 27:07:01-27:07:02, 27:11, 27:24, 27:32-27:34, 27:43, 35:05:01-35:05:02, 35:22, 35:31, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 37:09, 38:19, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 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, 42:08, 44:54, 44:106, 44:135, 46:12, 48:04, 48:13, 48:19, 48:24, 51:64, 51:81, 53:14, 55:04, 55:49, 55:51, 58:18, 58:27, C*03:05, C*03:25, C*03:27, C*08:08
32¹¹	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,

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33	350 bp	1070 bp	*07:61	
34	155 bp	1070 bp	*07:62, 07:90	
35⁶	105 bp	1070 bp	*07:63	
36	250 bp	1070 bp	*07:64	
37	210 bp	1070 bp	*07:65	*18:04, 35:08:05, 35:42:02, 35:43:02, 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^{9,27}	190 bp, 215 bp	1070 bp	*07:66, 07:103, 07:113	*08:64
39⁸	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, 07:137-07:138, 07:140	*40:166, 42:01:01-42:02, 42:04-42:05:02, 42:07-42:08, 42:10, 42:12-42:15, 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
40^{9,28}	265 bp, 395 bp	1070 bp	*07:56, 07:72, 07:83	*08:26, 08:56, 38:28, 39:63, 40:10:01 [?] -40:10:02 [?] , 40:21 [?] , 40:58 [?] , 40:137 [?] , 41:12, 49:03

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41	400 bp	1070 bp	*07:58	
42²⁹	195 bp, 225 bp	1070 bp	*07:67N, 07:71	
43⁷	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, 35:05:01-35:05:02, 35:22, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 38:19, 39:03, 39:14, 39:24:01- 39:24:02, 39:29, 39:37, 40:35, 40:71, 42:10, 44:54, 44:106, 44:135, 46:12, 48:12, 48:14, 51:64, 53:14, 58:18
44	150 bp	1070 bp	*07:10	*27:75 ^W , 73:01 ^W -73:02 ^W
45⁶	105 bp	1070 bp	*07:27, 07:50	*08:04, 08:17, 08:54, 15:03:01- 15:03:03, 15:47, 15:54, 15:61- 15:62, 15:64, 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, 18:37, 27:18, 27:29, 37:28, 38:03, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:23, 39:39, 39:49, 40:12, 40:46, 40:93, 42:11, 44:40, 44:44, 44:130, 48:01:01- 48:05, 48:07-48:27, 52:16, 55:18
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	*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- 08:59, 08:61-08:69, 08:71-08:78, 08:80, 35:87, 37:09, 41:02:01- 41:02:04, 41:04, 41:10-41:11, 41:13, 41:15, 41:18-41:19, 42:01:01-42:02, 42:05:01-42:12, 42:14-42:16, 44:106
48³⁰	200 bp, 280 bp	1070 bp	*07:76-07:77	*40:60, C*07:38
49	200 bp	1070 bp	*07:82	
50^{6,31}	75 bp, 165 bp	1070 bp	*07:74, 07:87	*08:77, 48:27
51³²	345 bp, 470 bp	1070 bp	*07:93, 07:97	*08:39, 38:27

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52	290 bp	800 bp	*07:95	
53⁹	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, 48:17, 48:26, C*04:77, C*07:38
54⁷	190 bp	1070 bp	*07:98	
55	260 bp	1070 bp	*07:99	
56^{7,9,11}	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, 35:05:01-35:05:02, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 40:05, 40:71, 40:174, 44:54, 44:106, 44:135, 46:12, 51:64, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27
57³³	150 bp, 215 bp	1070 bp	*07:70, 07:109	
58³⁴	245 bp, 440 bp	1070 bp	*07:79, 07:112	
59^{6,35}	95 bp, 190 bp	800 bp	*07:89, 07:113, 07:115	*08:64, 08:69, 14:05, 38:19, 39:03, 39:24:01-39:24:02, 39:37, 41:18, 42:06, 48:07, C*08:08
60	145 bp	1070 bp	*07:73	*40:166, 44:90, 45:06
61³⁶	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	*08:03, 08:23, 08:54, 14:14, 14:18, 15:68, 38:01:01-38:02:03, 38:04- 38:12, 38:15-38:25, 38:27-38:37, 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, 40:01:01-40:01:23, 40:07, 40:09 [?] - 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,

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63^{6,37}	65 bp, 230 bp	1070 bp	*07:94, 07:135N	C*03:124, C*04:49, C*05:15
64	210 bp	1070 bp	*07:69, 07:85	*14:01:01-14:01:02, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 18:33, 27:12, 27:16, 38:01:01- 38:02:03, 38:04, 38:08-38:25, 38:27-38:32, 38:34N-38:37, 39:01:01:01-39:01:01:02L, 39:01:03-39:01:12, 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, 39:40N-39:48, 39:50- 39:51, 39:53-39:57, 39:59-39:62, 39:64-39:68, 40:75
65³⁸	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	*08:03, 08:52, 08:78, 38:01:01- 38:01:05, 38:05-38:07, 38:09-38:14, 38:16, 38:19-38:22, 38:24-38:28, 38:30-38:34N, 38:36-38:37, 40:19 [?] , 40:109 [?] , 40:117 [?] , 44:18, 48:18, 49:01:01-49:01:03, 49:03-49:20
67⁸	230 bp	800 bp	*07:29, 07:72, 07:86, 07:114	*08:01:01-08:05, 08:07-08:56, 08:58-08:80, 14:11, 14:28, 38:33, 39:04, 39:63, 40:01:01-40:01:23, 40:07, 40:10:01 [?] -40:10:02 [?] , 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 [?] ,

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Lot-specific information

				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 [?] , 40:163 [?] , 40:166 [?] , 40:168 [?] , 40:170 [?] - 40:172 [?] , 40:175 [?] , 40:178 [?] -40:179 [?] , 41:01-41:19, 44:18, 45:01-45:13, 48:22, 49:01:01-49:20, 50:01:01, 50:01:02 [?] , 50:01:03-50:02, 50:04- 50:15
68 ³⁹	365 bp, 415 bp	1070 bp	*07:13, 07:15, 07:101	*08:16, 67:02
69 ^{7,40}	190 bp, 245 bp, 465 bp	1070 bp	*07:102, 07:106, 07:108	*08:18, 73:01-73:02
70 ^{6,41}	125 bp, 205 bp	800 bp	*07:104, 07:114	
71 ⁴²	245 bp, 280 bp	1070 bp	*07:107-07:108	
72	165 bp	1070 bp	*07:13, 07:110	*38:11, 54:02, 67:02, C*03:137, C*07:102^w
73	240 bp	1070 bp	*07:49N	
74	345 bp	1070 bp	*07:120	*40:150, 57:29
75 ^{6,43}	105 bp, 250 bp	1070 bp	*07:121, 07:126	
76 ⁴⁴	170 bp, 285 bp	1070 bp	*07:122, 07:128	
77	405 bp	800 bp	*07:116	
78 ^{6,45}	110 bp, 380 bp	1070 bp	*07:125, 07:129	
79 ⁶	65 bp	1070 bp	*07:130	

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 specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

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.

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.

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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, 4th and 5th exon 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 exons are conserved within allelic groups.

⁴The 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*07:50 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.

⁵Due 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 32, 37 to 40, 43 to 48, 50, 51, 53, 56, 59, 60, 62, 62, 64 to 69, 72 and 74. In addition, the C*02:23 allele will be amplified by primer mixes 3, 10 and 18, the C*03:05, C*03:25 and C*03:27 alleles will be amplified by primer mixes 14, 26, 31 and 56, the C*03:124, C*04:49 and C*05:15 alleles will be amplified by primer mix 63, the C*03:137 allele will be amplified by primer mixes 5 and 72, the C*04:77 allele will be amplified by primer mixes 4, 10, 18 and 53, the C*07:38 allele will be amplified by primer mixes 10, 12, 13, 18, 29, 48 and 53, the C*07:102 allele will be weakly amplified by primer mixes 5 and 72, 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.

⁶Specific PCR fragments shorter than 125 base pairs are less intense and not as sharp as longer specific bands.

⁷Primer mixes 5, 24, 29, 43, 56 and 69 have tendencies of giving rise to primer dimer artefacts.

⁸Primer mixes 9, 39 and 67 may yield less specific PCR product than the other HLA-B*07 primer mixes.

⁹Primer mixes 14, 28, 29, 38, 40, 53 and 56 may have tendencies of non-specific amplification, most pronounced in primer mixes 29 and 53.

¹⁰Primer mix 25 may give rise to non-specific amplification in B*73 alleles.

¹¹Primer 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.

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

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 and 07:140 and the B*08:79, 40:01:01-40:01:20, 40:01:22-40:01:23, 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, 40:166, 40:168, 40:170-40:171, 40:175, 40:179, 41:08, 42:05:01-42:05:02, 44:31, 48:01:01-48:01:03, 48:03:01-48:03:02, 48:05-48:07, 48:09-48:12, 48:14-48:16, 48:18-48:22 and 81:01-81:05 alleles.

¹⁴Primer mix 10: Specific PCR fragment of 285 bp in the B*07:07 and 07:77 and the B*15:138, 15:230, 18:35, 40:01:01-40:01:17, 40:01:19-40:01:23, 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, 40:60-40:63, 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, 40:138-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 41:08, 44:31, 46:06, 48:03:01-48:03:02 and 48:23 and in

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the C*02:23, C*04:77 and C*07:38 alleles. Specific PCR fragment of 415 bp in B*07:47 and 07:81 and the B*08:52, 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 and 07:38 and the B*18:07:01-18:07:02, 18:29, 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, 35:50, 35:84, 35:162, 37:21, 38:06-38:07, 39:58, 40:08, 40:13, 40:68, 40:162, 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*41:08 and 42:05:01-42:05:02 and in the C*07:38 alleles. Specific PCR fragment of 290 bp in the B*07:12, 07:14, 07:18:01-07:18:02 and 07:137 and the B*40:30, 40:34, 40:59, 40:137, 40:160 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 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, 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 and 44:106 alleles. Specific PCR fragment of 205 and 250 bp in the B*07:20 and 07:140 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 the 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 38:17 alleles.

²³Primer mix 26: Specific PCR fragment of 95 bp in the B*07:28 and 07:118 and B*08:14, 27:32 and 40:180 alleles. Specific PCR fragment of 205 bp in the B*07:51 and C*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, 35:05:01-35:05:02, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 40:05, 40:71, 40:174, 46:12, 51:64, 53:14, 55:51 and 58:18 and in the C*03:05, C*03:25 and C*03:27 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 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 allele.

²⁵Primer mix 29: Specific PCR fragment of 85 bp in the B*07:31, 07:34 and 07:43 and the B*41:08 and 42:05:01-42:05:02 and in the C*07:38 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, 07:53 and 07:60 and the B*14:05, 14:13, 15:55, 18:14, 27:07:01-27:07:02, 27:11, 27:24, 27:32-27:34, 27:43, 35:05:01-35:05:02, 35:22, 35:31, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 37:09, 38:19, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 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, 42:08, 44:54, 44:106, 44:135, 48:04, 48:13, 48:24, 51:64, 51:81, 53:14, 55:04, 55:49, 55:51, 58:18 and 58:27 and in the C*03:05, C*03:25, C*03:27 and C*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 alleles.

²⁷Primer 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.

²⁸Primer mix 40: Specific PCR fragment of 265 bp in the B*07:56 and 07:72 and the B*08:26, 08:56, 38:28, 39:63, 40:10:01²-40:10:02², 40:21², 40:58², 40:137², 41:12 and 49:03 alleles. Specific PCR fragment of 395 bp in the B*07:83 allele.

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- ²⁹Primer 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.
- ³⁰Primer 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 C*07:38 alleles.
- ³¹Primer 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 165 bp in the B*07:87 allele.
- ³²Primer 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.
- ³³Primer 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.
- ³⁴Primer 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 and 07:112 alleles.
- ³⁵Primer mix 59: Specific PCR fragment of 95 bp in the B*07:115 and the B*08:69, 14:05, 38:19, 39:03, 39:24:01-39:24:02, 39:37, 41:18, 42:06 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.
- ³⁶Primer 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.
- ³⁷Primer mix 63: Specific PCR fragment of 65 bp in the B*07:94 and in the C*03:124, C*04:49 and C*05:15 alleles. Specific PCR fragment of 230 bp in the B*07:135N allele.
- ³⁸Primer 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.
- ³⁹Primer mix 68: Specific PCR fragment of 365 bp in the B*07:101 allele. Specific PCR fragment of 415 bp in the B*07:13 and 07:15 and the B*08:16 and 67:02 alleles.
- ⁴⁰Primer 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.
- ⁴¹Primer 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.
- ⁴²Primer 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.
- ⁴³Primer mix 75: Specific PCR fragment of 105 bp in the B*07:126 allele. Specific PCR fragment of 250 bp in the B*07:121 allele.
- ⁴⁴Primer 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.
- ⁴⁵Primer 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.
- ‘w’, might be weakly amplified.
- ‘?’, nucleotide sequence information not available for the primer matching sequence.

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Lot-specific information

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Lot No.: **32N**

Lot-specific information

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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*81:02	1	2			5		8							14										24							30									39	
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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	

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 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 3.7.0, January 2012.

⁴The B*07:50 and B*48:08 alleles will give rise to identical amplification pattern with the HLA-B*07 subtyping kit. These two alleles can be distinguished e.g with the HLA-B low resolution kit.

⁵The B*07:102 and 07:106 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 69.

⁶Primer mix 7: Specific PCR fragment of 105 bp in the B*07:04, 07:25 and 07:52 and the B*40:136, 41:08 and 42:05:01-42:05:02 alleles. Specific PCR fragment of 215 bp in the B*07:29 allele.

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 and 07:140 and the B*08:79, 40:01:01-40:01:20, 40:01:22-40:01:23, 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, 40:166, 40:168, 40:170-40:171, 40:175, 40:179, 41:08, 42:05:01-42:05:02, 44:31, 48:01:01-48:01:03, 48:03:01-48:03:02, 48:05-48:07, 48:09-48:12, 48:14-48:16, 48:18-48:22 and 81:01-81:05 alleles.

Primer mix 10: Specific PCR fragment of 285 bp in the B*07:07 and 07:77 and the B*15:138, 15:230, 18:35, 40:01:01-40:01:17, 40:01:19-40:01:23, 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, 40:60-40:63, 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, 40:138-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 41:08, 44:31, 46:06, 48:03:01-48:03:02 and 48:23 and in the C*02:23, C*04:77 and C*07:38 alleles. Specific PCR fragment of 415 bp in B*07:47 and 07:81 and the B*08:52, 40:109⁷ and 48:18 alleles.

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101. 512-24u/03u – without *Taq* pol., IFU-02

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Lot-specific information

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	Well No.		
				45								53									62																			*48:26	
				45					50												62																			*48:27	
																					62					66	67													*49:03	
																															72									*54:02	
																																								*54:04, 54:11, 55:17, 55:20, 55:28, 56:12	
																																								*55:04, 55:49	
																																								*55:08, 56:05:02, 56:15, 56:21	
																																								*55:10	
				45																																				*55:18	
															56																									*55:51	
																																								*56:05:01, 56:06	
																																								*57:10	
																																								*57:29	
																																								*67:01:01-67:01:02, 67:03	
					46																							68				72									*67:02
			w	w																									69											*73:01-73:02	
																																								*78:07	
																																								*81:01, 81:03-81:04N	
																																								*81:02	
																																								*81:05	
																						63																	C*02:23		
																																								C*03:124, C*04:49, C*05:15	
																																								C*03:137	
																																								C*04:77	
																																								C*07:38	
																																								C*07:102	
																																								C*08:08	
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	Well No.		

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 and 07:38 and the B*18:07:01-18:07:02, 18:29, 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, 35:50, 35:84, 35:162, 37:21, 38:06-38:07, 39:58, 40:08, 40:13, 40:68, 40:162, 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*41:08 and 42:05:01-42:05:02 and in the C*07:38 alleles. Specific PCR fragment of 290 bp in the B*07:12, 07:14, 07:18:01-07:18:02 and 07:137 and the B*40:30, 40:34, 40:59, 40:137, 40:160 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, 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 and 44:106 alleles. Specific PCR fragment of 205 and 250 bp in the B*07:20 and 07:140 and the B*44:135 alleles. Specific PCR fragment of 250 and 295 bp in the B*07:35 allele.

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 the 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 38:17 alleles.

Primer mix 26: Specific PCR fragment of 95 bp in the B*07:28 and 07:118 and B*08:14, 27:32 and 40:180 alleles. Specific PCR fragment of 205 bp in the B*07:51 and C*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, 35:05:01-35:05:02, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 40:05, 40:71, 40:174, 46:12, 51:64, 53:14, 55:51 and 58:18 and in the C*03:05, C*03:25 and C*03:27 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 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 allele.

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Primer mix 29: Specific PCR fragment of 85 bp in the B*07:31, 07:34 and 07:43 and the B*41:08 and 42:05:01-42:05:02 and in the C*07:38 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, 07:53 and 07:60 and the B*14:05, 14:13, 15:55, 18:14, 27:07:01-27:07:02, 27:11, 27:24, 27:32-27:34, 27:43, 35:05:01-35:05:02, 35:22, 35:31, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 37:09, 38:19, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 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, 42:08, 44:54, 44:106, 44:135, 48:04, 48:13, 48:24, 51:64, 51:81, 53:14, 55:04, 55:49, 55:51, 58:18 and 58:27 and in the C*03:05, C*03:25, C*03:27 and C*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 alleles.

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 and 07:72 and the B*08:26, 08:56, 38:28, 39:63, 40:10:01[?]-40:10:02[?], 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 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 C*07:38 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 165 bp in the B*07:87 allele.

³²Primer 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.

³⁴Primer 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 and 07:112 alleles.

Primer mix 59: Specific PCR fragment of 95 bp in the B*07:115 and the B*08:69, 14:05, 38:19, 39:03, 39:24:01-39:24:02, 39:37, 41:18, 42:06 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 and C*05:15 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 365 bp in the B*07:101 allele. Specific PCR fragment of 415 bp in the B*07:13 and 07:15 and the B*08:16 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.

Primer mix 75: Specific PCR fragment of 105 bp in the B*07:126 allele. 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 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.

‘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	
5'-primer(s) ¹	44 5'-ggC 3'	363 5'-AgC 3'	412 5'-ATg 3'	540 5'-Cgg 3'	103 5'-CCT 3'	103 5'-CCT 3'	97 5'-TCg 3'	412 5'-ATA 3'	693 5'-ggT 3'	44 5'-ggC 3'	103 5'-CCT 3'	419 5'-gTC 3'
					103 5'-CCT 3'	103 5'-CCT 3'	540 5'-gAC 3'	636 5'-CAC 3'		363 5'-Agg 3'	103 5'-CCT 3'	
							545 5'-AgT 3'			363 5'-Agg 3'		
3'-primer(s) ²	272 5'-TgT 3'	605 5'-gCT 3'	605 5'-gCT 3'	605 5'-gCT 3'	282 5'-gCC 3'	277 5'-ggT 3'	272 5'-TgT 3'	605 5'-gCT 3'	916 5'-gAT 3'	287 5'-TCC 3'	191 5'-CgA 3'	605 5'-gCT 3'
							605 5'-gCT 3'	754 5'-AgA 3'		302 5'-ggC 3'	272 5'-TgC 3'	
										605 5'-gCT 3'	272 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				
5'-primer(s) ¹	355 5'-TCA 3'	363 5'-AgC 3'	44 5'-ggC 3'	103 5'-CCT 3'	44 5'-ggC 3'	379 5'-ACC 3'	363 5'-AgC 3'	25 5'-CCg 3'	481 5'-CgA 3'	322 5'-gCC 3'	560 5'-CCT 3'	103 5'-CCT 3'
	560 5'-CAC 3'	363 5'-AgC 3'		103 5'-CCT 3'			409 5'-ggC 3'	363 5'-AgC 3'	545 5'-AgT 3'			103 5'-CCT 3'
								636 5'-CAC 3'				527 5'-TgT 3'
3'-primer(s) ²	605 5'-gCT 3'	539 5'-TCA 3'	259 5'-CTC 3'	292 5'-gTA 3'	218 5'-gCA 3'	605 5'-gCT 3'	572 5'-gCg 3'	131 5'-ggA 3'	605 5'-gCT 3'	419 5'-CgT 3'	605 5'-gCT 3'	191 5'-CgA 3'
			287 5'-TCC 3'	292 5'-gTA 3'	301 5'-gTC 3'		616 5'-AgA 3'	527 5'-CCg 3'				605 5'-gCT 3'
			302 5'-ggT 3'	292 5'-gTA 3'	302 5'-ggT 3'			754 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	350	155	105	250
	425	205	215		200		280					
		235										
		290										
5'-primer(s) ¹	44 5'-ggC 3'	363 5'-AgC 3'	97 5'-TCg 3'	215 5'-gCC 3'	560 5'-CAC 3'	412 5'-ATA 3'	363 5'-AgC 3'	412 5'-ATA 3'	756 5'-ACT 3'	483 5'-gAA 3'	207 5'-gAC 3'	363 5'-AgC 3'
			148 5'-TgC 3'		852 5'-CAg 3'					503 5'-CCg 3'		
	181 5'-gTT 3'	418 5'-gTC 3'	272 5'-TgT 3'	282 5'-gCC 3'	605 5'-gCT 3'	559 5'-CTC 3'	538 5'-CCA 3'	559 5'-CgT 3'	973 5'-TCT 3'	605 5'-gCT 3'	272 5'-TgT 3'	570 5'-CCg 3'
3'-primer(s) ²	301 5'-gTC 3'	527 5'-CCg 3'			916 5'-gAC 3'		603 5'-gTC 3'					
		559 5'-CAg 3'										
		613 5'-gCT 3'										
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

101.512-24/03– including *Taq* pol., IFU-01
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Lot-specific information

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of	210	190	425	265	400	195	140	150	105	425	215	200
spec. PCR		215		395		225						280
product(s)												
5'-primer(s) ¹	141 5'-ATT 3'	363 5'-AgC 3'	272 5'-CTA 3'	44 5'-ggC 3'	650 5'-CCT 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'
						118 5'-C.g 3'						368 5'-gTC 3'
3'-primer(s) ²	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
	200	75	345	290	235	190	260	230	150	245	95	145
		165	470						215	440	190	
5'-primer(s) ¹	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) ²	2 nd I 5'-TCg 3'	398 5'-ggC 3'	221 5'-ACC 3'	605 5'-gCT 3'	605 5'-gCT 3'	513 5'-TCA 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'
		488 5'-CCA 3'	343 5'-T 3'					559 5'-CAg 3'		317 5'-ggC 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	205	415	65	210	385	435	230	365	190	125	245	165
spec. PCR	420		230		450			415	245	205	280	
product(s)									465			
5'-primer(s) ¹	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) ²	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'	241 5'-CgA 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'			289 5'-AgC 3'	341 5'-CgT 3'		603 5'-TTC 3'	
		292 5'-gTA 3'							511 5'-CCg 3'			
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

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Lot-specific information

Well No.	73	74	75	76	77	78	79
Length of	240	345	105	170	405	110	65
spec. PCR			250	285		380	
product(s)							
5'-primer(s) ¹	693	704	363	363	44	206	693
	5'-ggT 3'	5'-TgT 3'	5'-AgC 3'	5'-AgC 3'	5'-ggC 3'	5'-AgA 3'	5'-ggT 3'
				880		671	
				5'-CCT 3'		5'-CAg 3'	
3'-primer(s) ²	893	916	427	607	278	277	719
	5'-CCT 3'	5'-gAC 3'	5'-gTT 3'	5'-CAC 3'	5'-ggA 3'	5'-ggT 3'	5'-AgA 3'
			571	916		916	
			5'-CCg 3'	5'-gAC 3'		5'-gAC 3'	
Well No.	73	74	75	76	77	78	79

¹The 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.

²The 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]

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[illegible]

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[illegible]

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CELL LINE VALIDATION SHEET																				
HLA-B*07 SSP subtyping kit																				
					Well															
					49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				Prod. No.:	200967549	200967550	200967551	201182152	200967553	201297054	200967555	201297056	201182157	201297058	201182159	200967560	201182161	200967562	201297063	201297064
	IHWC 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.: **32N**

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
				Prod. No.:		201182165	200967566	201297067	201182168	201297069	201297070	201297071	201297072	201297073	201297074	201297075	201297076	201297077	201297078	201297079
	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.: **32N**

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.
32N

Lot number:

2014-August-01

Expiry date:

Number of tests:

24 tests – Product No. 101.512-24/24u

3 tests – Product No. 101.512-03/03u

Number of wells per test:

79

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	2009-675-33	63	2012-970-63
4	2009-675-04	34	2009-675-34	64	2012-970-64
5	2009-675-05	35	2009-675-35	65	2011-821-65
6	2009-675-06	36	2009-675-36	66	2009-675-66
7	2009-675-07	37	2009-675-37	67	2012-970-67
8	2009-675-08	38	2011-821-38	68	2011-821-68
9	2012-970-09	39	2009-675-39	69	2012-970-69
10	2009-675-10	40	2009-675-40	70	2012-970-70
11	2009-675-11	41	2009-675-41	71	2012-970-71
12	2009-675-12	42	2009-675-42	72	2012-970-72
13	2009-675-13	43	2009-675-43	73	2012-970-73
14	2011-821-14	44	2009-675-44	74	2012-970-74
15	2009-675-15	45	2009-675-45	75	2012-970-75
16	2009-675-16	46	2009-675-46	76	2012-970-76
17	2009-675-17	47	2009-675-47	77	2012-970-77
18	2009-675-18	48	2012-970-48	78	2012-970-78
19	2009-675-19	49	2009-675-49	79	2012-970-79
20	2009-675-20	50	2009-675-50		
21	2009-675-21	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	2012-970-54		
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	2012-970-58		
29	2011-821-29	59	2011-821-59		
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.: 32N**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, 33 to 36, 38, 40 to 42, 48 to 55, 57 to 61, 63, 65, 68 and 70 to 79 were available.

The specificities of the primers in primer solutions 7, 12, 13, 15, 17, 18, 20, 23, 25, 27, 29, 36, 38, 40, 48, 51, 52, 53, 57, 59, 60, 63, 68, 70, 72, 76 and 78 were tested by separately adding additional 5'-primers, respectively additional 3'-primers. In primer solutions 33, 50, 54, 58, 61, 65, 71, 73, 75, 77 and 79 it was only possible to test the 5'-primer, the 3'-primer were not possible to test. In primer solutions 21, 22, 28, 34, 35, 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 7, 27, 29, 48, 57, 63, 70, 76 and 78 one or two 5'-primers were not possible to test, and in primer solutions 8, 10, 11, 15, 17, 19, 20, 24 to 26, 38, 40, 51, 56, 59, 63, 68, 69, 76 and 78 one or two 3'-primers were not possible to test. Additional primers in primer solutions 8, 10, 11, 19, 24, 26, 31 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: 2012-March-02

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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“Instructions for Use” (IFU)

Lot No.: **32N**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*07
Product number: 101.512-24/24u, 03/03u
Lot number: 32N

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 13485:2003, 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
2012-March-02

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

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

Lot No.: **32N**

Lot-specific information

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Olerup SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.com

Web page: <http://www.olerup-ssp.com>

Distributed by:

Olerup GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

Web page: <http://www.olerup.com>

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

Tel: 1-877-OLERUP1

Fax: 610-344-7989

E-mail: info.us@olerup.com

Web page: <http://www.olerup.com>

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