

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.: **84V**

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:	84V
Expiry date:	2017-January-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:	83+1
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. 84V.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-B*07 LOT (74S)

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

A well containing Negative Control primer pairs has been added.

The format of the Product Insert and Worksheet have been changed.

Four wells have been added to HLA-B*07, wells **81 to 84**.

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. 74S**).

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As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

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

Well	5'-primer	3'-primer	rationale
2	Added	-	5'-primer added for the B*07:02:39 allele.
11	-	Added	3'-primer added for the B*07:132 allele.
16	-	Added	3'-primer added for the B*07:132 allele.
43	Exchanged	Exchanged	Exchanged primer pair for decreased tendency of primer oligomer formation.
69	-	Added	3'-primer added for the B*07:136 allele.
76	-	Added	3'-primer added for the B*07:136 allele.
81	New	New	New primer pair added for the B*07:151:01 allele.
82	New	New	New primer pair added for the B*07:163 allele.
83	New	New	New primer pair added for the B*07:174 allele.
84	-	-	Negative Control.

Changes in revision R01 compared to R00:

1. Primer mix 22 does not amplify the B*07:23 and the B*40:79, 40:190 and 41:14 alleles. Thus, this lot of the B*07 kit cannot distinguish the B*07:23 and the B*07:02:01-07:02:25, 07:02:27, 07:02:29-07:02:41, 07:124, 07:127, 07:133-07:134, 07:141-07:142, 07:144-07:145, 07:150, 07:152, 07:155, 07:157-07:159, 07:166, 07:170-07:171, 07:173, 07:177-07:179, 07:185, 07:187-07:190, 07:192, 07:194-07:195, 07:200, 07:203, 07:205, 07:208, 07:211-07:212, 07:215-07:218 alleles. This has been corrected in the Specificity and Interpretation Tables.

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Well **84** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP®* HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.
The PCR product generated by the positive control primer pair is 430 base pairs.

Length of PCR product	105	200	105	80	75	80	85
5'-primer¹	164	340	440	45	45	43	36
	5'-CAC ^{3'}	5'-Agg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-TAC ^{3'}
							36
							5'-TAT ^{3'}
3'-primer²	231	2nd I	507	59	58	57	47
	5'-TgC ^{3'}	5'-AAA ^{3'}	5'-TTg ^{3'}	5'-CTC ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}	5'-ACA ^{3'}
							48
							5'-gCA ^{3'}
							48
							5'-gCC ^{3'}
							52
							5'-TgT ^{3'}
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

¹The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codon 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 for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon 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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PRODUCT DESCRIPTION

HLA-B*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*07:02 to B*07:219 alleles.

PLATE LAYOUT

Each test consists of 84 PCR reactions in a 96 well cut PCR plate. Wells 85 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
81	82	83	NC	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 '84V'.

Wells 1 to 83 – HLA-B*07 high resolution primers.

Well 84 – Negative Control (NC).

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

Due 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 27, 29 to 33 35, 37 to 40, 43 to 53, 56, 59, 60, 62 to 69, 72 to 75, 77 and 81 to 83. In addition, a few HLA-C alleles will be amplified by primer mixes 3, 4, 5, 7, 9, 10, 12 to 14, 18, 20, 26, 27, 29 to 32, 48, 53, 56, 59, 63, 72, 81 and 82.

For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*07 alleles, i.e. **B*07:02 to B*07:219**, recognized by the HLA Nomenclature Committee in April 2014^{1,2} will be amplified by the primers in the HLA-B*07 subtyping kit^{3,4}.

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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 following HLA-B*07 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
B*07:42, 07:118	26	B*07:94, 07:135	63
B*07:49N, 07:169	73	B*07:102, 07:106	69
B*07:61, 07:149	33	B*07:107, 07:181N	71
B*07:63, 07:143	35	B*07:121, 07:126	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 07:02:29-07:02:41, 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*07:33:01-07:33:03, the B*07:56:01-07:56:02, the B*07:68:01-07:68:03, the B*07:96:01-07:96:02 or the B*07:151:01-07:151:02 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2014-April-14, release 3.16.0, www.ebi.ac.uk/imgt/hla.

²Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

³The 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 kit and/or the HLA-B*48 high resolution kit.

⁴This lot of the B*07 kit cannot distinguish the B*07:23 and the B*07:02:01-07:02:25, 07:02:27, 07:02:29-07:02:48, 07:124, 07:127, 07:133-07:134, 07:141-07:142, 07:144-07:145, 07:150, 07:152, 07:155, 07:157-07:159, 07:166, 07:170-07:171, 07:173, 07:177-07:179, 07:185, 07:187-07:190, 07:192, 07:194-07:195, 07:200, 07:203, 07:205, 07:211-07:212, 07:215-07:218, 07:221, 07:224, 07:230, 07:233-07:234, 07:241-07:245, 07:247, 07:250, 07:252, 07:254 and 07:256 alleles.

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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*07:07	Confirmed	B*07:53	Confirmed	B*07:99	Unconfirmed
B*07:02:02	Confirmed	B*07:08	Confirmed	B*07:54	Confirmed	B*07:100	Unconfirmed
B*07:02:03	Confirmed	B*07:09	Confirmed	B*07:55	Unconfirmed	B*07:101	Unconfirmed
B*07:02:04	Unconfirmed	B*07:10	Confirmed	B*07:56:01	Unconfirmed	B*07:102	Confirmed
B*07:02:05	Unconfirmed	B*07:11	Unconfirmed	B*07:56:02	Confirmed	B*07:103	Confirmed
B*07:02:06	Unconfirmed	B*07:12	Confirmed	B*07:57	Confirmed	B*07:104	Unconfirmed
B*07:02:07	Confirmed	B*07:13	Confirmed	B*07:58	Unconfirmed	B*07:105	Confirmed
B*07:02:08	Confirmed	B*07:14	Confirmed	B*07:59	Unconfirmed	B*07:106	Confirmed
B*07:02:09	Unconfirmed	B*07:15	Confirmed	B*07:60	Unconfirmed	B*07:107	Unconfirmed
B*07:02:10	Confirmed	B*07:16	Confirmed	B*07:61	Unconfirmed	B*07:108	Unconfirmed
B*07:02:11	Unconfirmed	B*07:17	Confirmed	B*07:62	Confirmed	B*07:109	Confirmed
B*07:02:12	Unconfirmed	B*07:18:01	Unconfirmed	B*07:63	Confirmed	B*07:110	Confirmed
B*07:02:13	Confirmed	B*07:18:02	Confirmed	B*07:64	Confirmed	B*07:111N	Confirmed
B*07:02:14	Confirmed	B*07:19	Confirmed	B*07:65	Unconfirmed	B*07:112	Unconfirmed
B*07:02:15	Confirmed	B*07:20	Confirmed	B*07:66	Unconfirmed	B*07:113	Unconfirmed
B*07:02:16	Unconfirmed	B*07:21	Unconfirmed	B*07:67N	Unconfirmed	B*07:114	Unconfirmed
B*07:02:17	Confirmed	B*07:22:01	Unconfirmed	B*07:68:01	Confirmed	B*07:115	Unconfirmed
B*07:02:18	Unconfirmed	B*07:22:02	Confirmed	B*07:68:02	Confirmed	B*07:116	Unconfirmed
B*07:02:19	Unconfirmed	B*07:23	Unconfirmed	B*07:68:03	Confirmed	B*07:117	Unconfirmed
B*07:02:20	Unconfirmed	B*07:24	Confirmed	B*07:69	Confirmed	B*07:118	Unconfirmed
B*07:02:21	Confirmed	B*07:25	Unconfirmed	B*07:70	Unconfirmed	B*07:119	Confirmed
B*07:02:22	Unconfirmed	B*07:26	Confirmed	B*07:71	Confirmed	B*07:120	Unconfirmed
B*07:02:23	Confirmed	B*07:27	Unconfirmed	B*07:72	Confirmed	B*07:121	Unconfirmed
B*07:02:24	Unconfirmed	B*07:28	Unconfirmed	B*07:73	Confirmed	B*07:122	Confirmed
B*07:02:25	Unconfirmed	B*07:29	Unconfirmed	B*07:74	Confirmed	B*07:123	Unconfirmed
B*07:02:26	Unconfirmed	B*07:30	Unconfirmed	B*07:75	Unconfirmed	B*07:124	Unconfirmed
B*07:02:27	Confirmed	B*07:31	Confirmed	B*07:76	Confirmed	B*07:125	Confirmed
B*07:02:28	Confirmed	B*07:32	Confirmed	B*07:77	Confirmed	B*07:126	Confirmed
B*07:02:29	Unconfirmed	B*07:33:01	Confirmed	B*07:78	Unconfirmed	B*07:127	Unconfirmed
B*07:02:30	Unconfirmed	B*07:33:02	Unconfirmed	B*07:79	Unconfirmed	B*07:128	Unconfirmed
B*07:02:31	Unconfirmed	B*07:33:03	Unconfirmed	B*07:80	Confirmed	B*07:129	Unconfirmed
B*07:02:32	Unconfirmed	B*07:34	Unconfirmed	B*07:81	Unconfirmed	B*07:130	Unconfirmed
B*07:02:33	Confirmed	B*07:35	Unconfirmed	B*07:82	Confirmed	B*07:131	Confirmed
B*07:02:34	Unconfirmed	B*07:36	Confirmed	B*07:83	Unconfirmed	B*07:132	Confirmed
B*07:02:35	Confirmed	B*07:37	Confirmed	B*07:84	Unconfirmed	B*07:133	Unconfirmed
B*07:02:36	Confirmed	B*07:38	Confirmed	B*07:85	Unconfirmed	B*07:134	Unconfirmed
B*07:02:37	Unconfirmed	B*07:39	Unconfirmed	B*07:86	Confirmed	B*07:135N	Unconfirmed
B*07:02:38	Unconfirmed	B*07:40	Unconfirmed	B*07:87	Confirmed	B*07:136	Confirmed
B*07:02:39	Unconfirmed	B*07:41	Unconfirmed	B*07:88	Confirmed	B*07:137	Unconfirmed
B*07:02:40	Unconfirmed	B*07:42	Confirmed	B*07:89	Unconfirmed	B*07:138	Unconfirmed
B*07:02:41	Confirmed	B*07:43	Confirmed	B*07:90	Unconfirmed	B*07:139	Unconfirmed
B*07:03	Confirmed	B*07:44	Unconfirmed	B*07:91	Confirmed	B*07:140	Unconfirmed
B*07:04	Confirmed	B*07:45	Unconfirmed	B*07:92	Confirmed	B*07:141	Unconfirmed
B*07:05:01	Confirmed	B*07:46	Unconfirmed	B*07:93	Unconfirmed	B*07:142	Unconfirmed
B*07:05:02	Unconfirmed	B*07:47	Confirmed	B*07:94	Confirmed	B*07:143	Confirmed
B*07:05:03	Unconfirmed	B*07:48	Confirmed	B*07:95	Confirmed	B*07:144	Unconfirmed
B*07:05:04	Unconfirmed	B*07:49N	Unconfirmed	B*07:96:01	Confirmed	B*07:145	Unconfirmed
B*07:05:05	Confirmed	B*07:50	Unconfirmed	B*07:96:02	Unconfirmed	B*07:146	Unconfirmed
B*07:05:06	Unconfirmed	B*07:51	Confirmed	B*07:97	Unconfirmed	B*07:147	Unconfirmed
B*07:06	Confirmed	B*07:52	Unconfirmed	B*07:98	Confirmed	B*07:148	Confirmed

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Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*07:149	Confirmed	B*07:168	Unconfirmed	B*07:188	Unconfirmed	B*07:208	Unconfirmed
B*07:150	Unconfirmed	B*07:169	Unconfirmed	B*07:189	Unconfirmed	B*07:209	Unconfirmed
B*07:151:01	Confirmed	B*07:170	Unconfirmed	B*07:190	Unconfirmed	B*07:210	Unconfirmed
B*07:151:02	Unconfirmed	B*07:171	Unconfirmed	B*07:191	Unconfirmed	B*07:211	Unconfirmed
B*07:152	Unconfirmed	B*07:172	Unconfirmed	B*07:192	Unconfirmed	B*07:212	Unconfirmed
B*07:153	Unconfirmed	B*07:173	Unconfirmed	B*07:193	Unconfirmed	B*07:213	Unconfirmed
B*07:154	Unconfirmed	B*07:174	Confirmed	B*07:194	Unconfirmed	B*07:214	Unconfirmed
B*07:155	Unconfirmed	B*07:175	Confirmed	B*07:195	Unconfirmed	B*07:215	Unconfirmed
B*07:156	Unconfirmed	B*07:176	Unconfirmed	B*07:196	Unconfirmed	B*07:216	Unconfirmed
B*07:157	Unconfirmed	B*07:177	Unconfirmed	B*07:197	Unconfirmed	B*07:217	Unconfirmed
B*07:158	Unconfirmed	B*07:178	Unconfirmed	B*07:198	Unconfirmed	B*07:218	Unconfirmed
B*07:159	Unconfirmed	B*07:179	Unconfirmed	B*07:199	Unconfirmed	B*07:219	Unconfirmed
B*07:160	Confirmed	B*07:180	Unconfirmed	B*07:200	Unconfirmed		
B*07:161N	Unconfirmed	B*07:181N	Unconfirmed	B*07:201N	Unconfirmed		
B*07:162	Unconfirmed	B*07:182N	Unconfirmed	B*07:202	Unconfirmed		
B*07:163	Confirmed	B*07:183	Unconfirmed	B*07:203	Unconfirmed		
B*07:164	Unconfirmed	B*07:184	Unconfirmed	B*07:204	Unconfirmed		
B*07:165	Unconfirmed	B*07:185	Unconfirmed	B*07:205	Unconfirmed		
B*07:166	Unconfirmed	B*07:186	Unconfirmed	B*07:206	Unconfirmed		
B*07:167N	Unconfirmed	B*07:187	Unconfirmed	B*07:207	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2014-April-14, release 3.16.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B*07 homo- and heterozygotes is available upon request.

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SPECIFICITY TABLE

HLA-B*07 SSP subtyping

Specificities and sizes of the PCR products of the 83+1 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	Other amplified HLA Class I alleles ⁴
1	395 bp	800 bp	*07:02:01-07:02:27, 07:02:29-07:02:41, 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, 07:184-07:206, 07:208- 07:218	*08:123, 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- 67:05, 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, 07:166-07:192, 07:194- 07:195, 07:199-07:213, 07:215-07:219	*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, 48:01:01-48:01:06, 48:05-48:12, 48:14-48:16, 48:18-48:20, 48:22, 48:27- 48:34, 81:01-81:07
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, 07:141-07:153, 07:155- 07:164, 07:166-07:167N, 07:169-07:171, 07:173- 07:175, 07:177-07:181N, 07:183-07:190, 07:192- 07:196, 07:198-07:200, 07:202-07:205, 07:208, 07:211-07:212, 07:215- 07:219	*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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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, 07:166-07:208, 07:210-07:219	*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	*07:02:01-07:02:41, 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- 07:203, 07:205-07:206, 07:208-07:209, 07:211-07:218	*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, 27:107-27:118, 27:120-27:125, 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, 67:01:01-67:05, 73:01-73:02, 81:01-81:07, C*03:137, C*03:182, C*07:102^w, C*07:351, C*12:82
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	215 bp		*07:29, 07:186	*08:123, C*07:335
8	160 bp	1070 bp	*07:59	
	235 bp		*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, 07:182N, 07:201N, 07:206-07:207, 07:209-07:210, 07:213-07:214	*08:79, 27:125, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29-40:01:31, 40:01:33-40:01:39, 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, 40:233-40:242, 40:245, 40:247, 40:249-40:253, 40:257-40:265N, 40:272-40:273, 40:277-40:279, 40:281-40:282, 40:285, 41:08, 42:05:01-42:05:02, 44:31, 48:01:01-48:01:06, 48:03:01-48:03:02, 48:05-48:07, 48:09-48:12, 48:14-48:16, 48:18-48:22, 48:28-48:34, 81:01-81:07
9⁷	355 bp	1070 bp	*07:05:01-07:05:06	*35:46, 37:07, C*03:04:36
10	285 bp	800 bp	*07:07, 07:12, 07:14, 07:18:01-07:18:02, 07:77, 07:137, 07:162-07:163, 07:193, 07:214	*15:138, 15:297, 15:230, 15:241, 18:35, 27:125, 40:01:01-40:01:17, 40:01:19-40:01:39, 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, 40:134-40:141, 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, 40:234-40:242, 40:245, 40:247, 40:249-40:253, 40:257-40:265N, 40:272-40:273, 40:277-40:282, 40:285, 41:08, 44:31, 44:150, 46:06, 48:03:01-48:03:02, 48:17, 48:23, C*02:23, C*04:77, C*07:38:01-07:38:02
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12	225 bp	1070 bp	*07:09, 07:11, 07:17, 07:162	*15:138, 15:241, 15:297, 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
13⁵	85 bp 290 bp	1070 bp	*07:31, 07:34, 07:43 *07:12, 07:14, 07:18:01- 07:18:02, 07:137, 07:162- 07:163, 07:199	*40:199, 41:08, 42:05:01-42:05:02, C*07:38:01-07:38:02 *15:297, 40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02, 44:150, 48:17
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15	385 bp 420 bp	1070 bp	*07:54, 07:123 *07:11, 07:47 07:57, 07:75	*45:06 *08:17, 08:47, 39:20, 42:15
16	205 bp 230 bp	1070 bp	*07:132 *07:16, 07:27, 07:37-07:38, 07:50, 07:75, 07:91, 07:132, 07:180, 07:207, 07:219	*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- 18:93, 18:95-18:103, 27:01, 27:18, 27:23, 27:29, 27:44, 27:92, 27:119, 35:50, 35:84,

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20	160 bp 205 bp 275 bp	1070 bp	*07:59 *07:51 *07:21	C*07:294, C*08:08:01-08:08:02
21^{5,6}	100 bp 165 bp	1070 bp	*07:52 *07:22:01-07:22:02	
22	385 bp	1070 bp		
23⁵	85 bp	1070 bp	*07:20, 07:24, 07:131	*15:230, 15:297, 40:63
24^{5,6}	125 bp	800 bp	*07:25, 07:39, 07:48, 07:202, 07:209	*18:35, 27:36, 27:125, 35:66, 40:01:01-40:01:19, 40:01:21-40:01:39, 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,

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25⁹	305 bp 425 bp	1070 bp	*07:117 *07:27	*40:250 *38:17, 40:188 ⁷
26⁵	95 bp 205 bp 235 bp	800 bp	*07:28, 07:118 *07:51 *07:20, 07:24, 07:60, 07:100, 07:131	*08:14, 08:87, 27:32, 40:180, 44:54, 44:106, 44:135 C*07:294, C*08:08:01-08:08:02 *08:21, 08:25, 15:07:01-15:07:03, 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, 35:232, 40:05, 40:71, 40:174, 44:54, 44:106, 44:135, 44:158, 44:184, 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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29^{5,6,8}	85 bp	800 bp	*07:31, 07:34, 07:43	*40:199, 41:08, 42:05:01-42:05:02, C*07:38:01-07:38:02
30	200 bp 190 bp	800 bp	*07:44 *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, 07:176, 07:182N, 07:201N, 07:206-07:207, 07:209-07:210, 07:213-07:214	*08:40, 08:79, 13:01:01-13:01:02, 13:01:04-13:02:16, 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, 13:54-13:61, 13:63N-13:71, 13:73-13:78, 27:07:01-27:07:04, 27:11, 27:20, 27:24, 27:27, 27:33, 27:43, 27:125, 35:31, 35:88, 35:230, 39:47, 39:50, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29-40:01:31, 40:01:33-40:02:09, 40:02:11-40:02:12, 40:02:14-40:02:17, 40:02:19, 40:04, 40:06:01:01-40:06:09, 40:07-40:08, 40:10:01-40:16, 40:19, 40:21-40:23, 40:25, 40:27:01-40:27:02, 40:29-40:30, 40:34-40:38, 40:40, 40:43, 40:45-40:50, 40:53-40:58, 40:61-40:62, 40:64-40:70:02, 40:72:01-40:88, 40:90-40:91, 40:93-40:97,

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31	215 bp	800 bp	*07:55, 07:100	*08:70, 15:07:01-15:07:03, 15:45, 15:68, 15:126, 15:207, 46:12, 48:19, C*02:60
	280 bp		*07:19, 07:33:01-07:33:03, 07:53, 07:60, 07:100	*08:103, 13:71, 14:05, 14:13, 15:07:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:207, 18:14, 27:07:01-27:07:04, 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, 35:232, 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, 40:35:01-40:35:02, 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, 40:246, 40:248, 40:254-40:255, 40:266-40:267, 40:271, 40:274, 40:276, 40:283-40:284, 42:08, 44:54, 44:106, 44:135, 44:158, 44:184, 46:12, 48:04, 48:13, 48:24, 51:64, 51:81, 51:148, 53:14, 55:04, 55:49, 55:51, 58:18, 58:27, C*02:60, C*03:05, C*03:25, C*03:27, C*03:167, C*08:08:01-08:08:02
32¹⁰	190 bp	1070 bp	*07:34	*08:01:01-08:01:22, 08:01:24-08:05, 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, 08:109-08:110, 08:112-08:123, 13:06, 13:53, 14:13, 15:42, 15:83, 15:86, 15:188, 15:224, 15:252, 18:26, 18:61, 18:97, 35:60, 35:87, 37:12, 38:01:01, 38:01:03-38:01:05, 38:01:07-38:02:05, 38:02:07-38:07, 38:09-38:21, 38:23-38:28, 38:31-38:51, 38:53, 39:01:01:01-39:01:01:03, 39:01:03-39:01:18, 39:02:01-39:06:04, 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,

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				39:44-39:46, 39:48, 39:51-39:54, 39:56-39:66, 39:68-39:73, 39:75-39:88, 39:90, 39:92, 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, 41:22-41:32, 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, 51:153, 51:157, 52:37, 54:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10-54:13, 54:17-54:25, 54:27-54:32, 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, 55:59-55:64, 56:10, 56:12, 56:23, 58:20, 59:01:01:01-59:03, 59:05-59:08, 67:01:01-67:05, 78:07, C*01:90, C*15:24
33^{5,6}	90 bp	1070 bp	*07:149	*08:02, 08:117, 13:36, 15:89, 15:115, 18:09, 38:02:01-38:02:06, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 38:43-38:50, 44:12, 51:54, 51:78:01-51:78:02, 53:09, 53:11-53:13, 53:31, 56:07, 59:08
	350 bp		*07:61	
34	155 bp	1070 bp	*07:62, 07:90	
35^{5,8}	105 bp	1070 bp	*07:63	
	215 bp		*07:143	*40:166, 42:02, 42:09, 42:17-42:18, 45:06, 54:02, 55:16, 56:35
36	180 bp	1070 bp	*07:167N, 07:201N	
	250 bp		*07:64	
37	210 bp	1070 bp	*07:65, 07:206	*15:32:02, 18:04, 35:08:05, 35:42:02, 35:185, 39:63, 40:01:11, 40:58, 46:40, 56:05:01, 56:06, 78:01:01-78:01:02, 78:02:02-78:03, 78:07
38⁸	190 bp	1070 bp	*07:103, 07:113	*08:64
	215 bp		*07:66	
39⁷	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, 07:201N, 07:206, 07:209-07:210, 07:213	*08:123, 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, 81:06-81:07
40⁸	265 bp	1070 bp	*07:56:01-07:56:02, 07:72, 07:206	*08:26, 08:56:01-08:56:02, 38:28, 39:63, 40:21 [?] , 40:58 [?] , 40:137 [?] , 40:248 [?] , 40:282 [?] , 41:12, 49:03
	395 bp		*07:83	
41	400 bp	1070 bp	*07:58	
	425 bp		*07:156	
42	195 bp	1070 bp	*07:67N	
	225 bp		*07:71	
43	185 bp	1070 bp	*07:68:01-07:68:03, 07:214	*15:138, 15:230, 15:241, 15:297, 18:35, 35:66, 40:77, 40:87:01-40:87:02, 40:121, 40:158, 40:222, 40:237, 44:150, 48:12, 48:14, 48:26, 48:29
44	150 bp	1070 bp	*07:10	*27:75 ^w , 73:01 ^w -73:02 ^w

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45⁵	105 bp	1070 bp	*07:27, 07:50	*08:04, 08:17, 08:54, 08:110, 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, 15:281-15:282, 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, 39:39:01-39:39:02, 39:49, 39:88, 40:12, 40:46, 40:93, 42:11, 44:40, 44:44, 44:130, 44:156, 48:01:01-48:05, 48:07-48:30, 48:32-48:34, 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, 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, 08:108-08:123, 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, 41:31, 42:01:01-42:02, 42:05:01-42:12, 42:14-42:18, 42:20, 44:106, 44:158, 44:166
48	200 bp 280 bp	1070 bp	*07:76 *07:77, 07:193	*40:60, 40:245, C*07:38:01-07:38:02
49	200 bp	1070 bp	*07:82	*44:129
50⁵	75 bp 105 bp 165 bp	1070 bp	*07:74 *07:175 *07:87	*08:77, 48:27 *15:126
51	345 bp 470 bp	1070 bp	*07:97 *07:93	*08:114 *08:39, 38:27
52⁸	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, 07:197	*15:230, 15:297, 27:36, 40:42, 40:60, 40:124:01-40:124:02, 40:172, 40:280, 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, 07:201N	
55	260 bp	1070 bp	*07:99	
56^{6,8}	220 bp 235 bp	1070 bp	*07:45 *07:20, 07:24, 07:60, 07:100, 07:131	*08:21, 08:25, 15:07:01-15:07:03, 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, 35:232, 40:05, 40:71, 40:174, 44:54, 44:106, 44:135, 44:158, 44:184, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*03:167
57	150 bp 215 bp	1070 bp	*07:109 *07:70	
58⁶	245 bp 440 bp	1070 bp	*07:112 *07:79	

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59⁵	100 bp	800 bp	*07:115, 07:182N	*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*08:08:01-08:08:02
	190 bp		*07:89, 07:113	*08:64
60	145 bp	1070 bp	*07:73	*40:166, 44:90, 45:06
61	205 bp	1070 bp	*07:88	
	420 bp		*07:105	
62	415 bp	800 bp	*07:16, 07:27, 07:37-07:38, 07:50, 07:75, 07:91, 07:180, 07:207, 07:219	*08:03, 08:23, 08:54, 08:110, 14:14, 14:18, 15:68, 38:01:01-38:02:07, 38:04-38:12, 38:15-38:25, 38:27-38:40, 38:42-38:53, 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, 40:01:01-40:01:39, 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 [?] , 40:155:01N-40:155:02N, 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 [?] -40:249 [?] , 40:250-40:253, 40:257 [?] , 40:258-40:265N, 40:272, 40:273 [?] -40:276 [?] , 40:277-40:278, 40:279 [?] -40:283 [?] , 40:285, 41:01-41:26, 41:28-41:32, 42:11, 44:18, 45:01:01-45:05, 45:07-45:14, 48:01:01-48:34, 49:01:01-49:31, 50:01:01, 50:01:02 [?] , 50:01:03-50:02, 50:04-50:20, 50:31-50:38
63⁵	65 bp	1070 bp	*07:94	*67:04, C*03:124, C*04:49, C*05:15, C*07:262, C*12:95
	230 bp		*07:135N	
64	210 bp	1070 bp	*07:69, 07:85, 07:180	*14:01:01-14:01:04, 14:07N-14:08:02, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 14:40, 18:33, 27:12, 27:16, 27:92, 27:119, 38:01:01-38:02:07, 38:04, 38:08-38:25, 38:27-38:32, 38:34N-38:53, 39:01:01:01-39:01:01:03, 39:01:03-39:01:19, 39:03, 39:05:01-39:07, 39:09:01-39:09:02, 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, 39:84-39:87N, 39:90-39:92, 40:75
65	385 bp	1070 bp	*07:54, 07:123	*45:06
	450 bp		*07:111N	
66	435 bp	1070 bp	*07:36, 07:38, 07:81, 07:180, 07:219	*08:03, 08:52, 08:78, 38:01:01-38:01:07, 38:05-38:07, 38:09-38:14, 38:16,

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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, 08:95-08:123, 14:11, 14:28, 38:33, 39:04, 39:63, 40:01:01-40:01:33, 40:01:35- 40:01:39, 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 [?] -40:130:02 [?] , 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 [?] , 40:155:01N-40:155:02N, 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 [?] , 40:221 [?] -40:223 [?] , 40:227 [?] - 40:228 [?] , 40:231 [?] , 40:233 [?] , 40:235 [?] - 40:242 [?] , 40:245 [?] , 40:247 [?] , 40:249 [?] , 40:250-40:253, 40:257 [?] , 40:258-40:265N, 40:272, 40:273 [?] , 40:277-40:278, 40:279 [?] - 40:282 [?] , 40:285, 41:01-41:32, 44:18, 45:01:01-45:14, 48:22, 49:01:01-49:23, 49:25-49:30, 50:01:01, 50:01:02 [?] , 50:01:03-50:02, 50:04-50:20, 50:31-50:38
68	335 bp 365 bp 415 bp	1070 bp	*07:148 *07:101 *07:13, 07:15, 07:160	*40:193 [?] *08:16, 08:123, 42:18, 67:02
69^{6,8}	130 bp 190 bp 245 bp 465 bp	1070 bp	*07:136 *07:106 *07:108 *07:102	*08:18, 73:01-73:02
70⁵	125 bp 205 bp	800 bp	*07:104 *07:114	
71¹¹	245 bp 280 bp 390 bp	1070 bp	*07:108 *07:107 *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*07:351, C*12:82
73⁵	85 bp 240 bp	1070 bp	*07:119, 07:169 *07:49N	*48:34
74	345 bp 425 bp	1070 bp	*07:120 *07:156	*40:150, 57:29

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76⁸	130 bp 170 bp 285 bp	1070 bp	*07:136 *07:128 *07:122	
77	335 bp 405 bp	800 bp	*07:148 *07:116	40:193 [?]
78⁵	110 bp 380 bp	1070 bp	*07:125 *07:129	
79⁵	65 bp 95 bp	1070 bp	*07:130 *07:119	
80	405 bp	1070 bp	*07:161N	
81	135 bp	1070 bp	*07:147, 07:151:01- 07:151:02	*40:72:01-40:72:02, 40:77, 40:237, 48:14, C*07:38:01-07:38:02
82	280 bp	1070 bp	*07:77, 07:163, 07:193	*40:60, 40:245, C*07:38:01-07:38:02
83	175 bp	1070 bp	*07:174, 07:202	*27:24, 40:31, 40:45, 40:80, 48:01:01- 48:01:06, 48:04, 48:06-48:07, 48:09, 48:11, 48:15-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:34, 81:01-81:07
84¹²	Negative Control			

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 alleles listed are specified according to amplicon length.

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.

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 internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

³For several HLA Class I 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. Assumption is made 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 27, 29 to 33 35, 37 to 40, 43 to 53, 56, 59, 60, 62 to 69, 72 to 75, 77 and 81 to 83. In addition, a few HLA-C alleles will be amplified by primer mixes 3, 4, 5, 7, 9, 10, 12 to 14, 18, 20, 26, 27, 29 to 32, 48, 53, 56, 59, 63, 72, 81 and 82.

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

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

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

⁷Primer mixes 9, 11, 39 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, 52, 53, 56, 69 and 76 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 84 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

‘w’, might be weakly amplified.

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

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Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	395	285	235	105	220	215	100	160	355	285	130	225
PCR product							215	235		420	210	
Length of int.	800	1070	1070	800	1070	1070	1070	1070	1070	800	1070	1070
pos. control ¹												
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	268	
							5'-gCT 3'	5'-AgA 3'		5'-ggC 3'	5'-gAg 3'	
										605	272	
										5'-gCT 3'	5'-TgC 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.	85	215	385	205	345	265	205	160	100	385	85	125
PCR product	290		420	230	425		250	205	165			
							295	275				
Length of int.	1070	800	1070	1070	1070	1070	800	1070	1070	1070	1070	800
pos. control ¹												
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	268	218	605	572	131	605	419	605	191
	5'-gCT 3'	5'-TCA 3'	5'-CTC 3'	5'-gAg 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'				
				292								
				5'-gTA 3'								
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

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

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	305	95	165	110	85	190	215	190	90	155	105	180
PCR product	425	205	215		200		280		350		215	250
		235										
		290										
Length of int.	1070	800	800	1070	800	800	800	1070	1070	1070	1070	1070
pos. control ¹												
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

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	210	190	425	265	400	195	185	150	105	425	215	200
PCR product		215		395	425	225						280
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070
pos. control ¹												
5'-primer(s) ²	141	363	272	44	625	89	463	165	206	44	363	113
	5'-ATT 3'	5'-AgC 3'	5'-CTA 3'	5'-ggC 3'	5'-CCg 3'	5'-gAC 3'	5'-TgA 3'	5'-ACC 3'	5'-AgA 3'	5'-ggC 3'	5'-AgC 3'	5'-CCA 3'
					650	118						368
					5'-CCT 3'	5'-C.g 3'						5'-gTC 3'
3'-primer(s) ³	311	506	412	142	916	272	605	272	272	299	538	272
	5'-ggT 3'	5'-Tgg 3'	5'-gTT 3'	5'-TgC 3'	5'-gAC 3'	5'-TgT 3'	5'-gCT 3'	5'-TgC 3'	5'-Tgg 3'	5'-TCA 3'	5'-gTC 3'	5'-TgT 3'
		516		272								605
		5'-gCg 3'		5'-TgA 3'								5'-gCT 3'
		539										
		5'-TCT 3'										
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.512-24/03– including *Taq* pol., IFU-01
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Lot No.: **84V**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	200	75	345	290	235	185	260	220	150	245	100	145
PCR product		105	470					235	215	440	190	
		165										
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.	205	415	65	210	385	435	230	335	130	125	245	165
PCR product	420		230		450			365	190	205	280	
								415	245		390	
									465			
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'	453 5'-TCC 3'		603 5'-TTC 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	80	81	82	83
Length of spec.	85	345	105	130	335	110	65	405	135	280	175
PCR product	240	425	250	170	405	380	95				
				285							
Length of int.	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070
pos. control ¹											
5'-primer(s) ²	244	625	363	363	44	206	244	693	512	368	363
	5'-CgC 3'	5'-CCg 3'	5'-AgC 3'	5'-AgC 3'	5'-ggC 3'	5'-AgA 3'	5'-CgC 3'	5'-ggT 3'	5'-gTT 3'	5'-gTC 3'	5'-AgC 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	453	212	277	299	962	605	605	499
	5'-TCT 3'	5'-gAC 3'	5'-CgC 3'	5'-TCC 3'	5'-gCA 3'	5'-ggT 3'	5'-TCT 3'	5'-CAA 3'	5'-gCT 3'	5'-gCT 3'	5'-ggA 3'
	728		427	607	278	916	719				
	5'-CCT 3'		5'-gTT 3'	5'-CAC 3'	5'-ggA 3'	5'-gAC 3'	5'-AgA 3'				
	893		571	916							
	5'-CCT 3'		5'-CCg 3'	5'-gAC 3'							
Well No.	73	74	75	76	77	78	79	80	81	82	83

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

²The nucleotide position 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 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.

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

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Lot No.: **84V**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-B*07 SSP subtyping kit ²																					
					Prod. No.:	Well															
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
						201436401	201436402	201436403	201436404	201436405	201436406	201436407	201436408	201436409	201436410	201436411	201436412	201436413	201436414	201436415	201436416
	IHCW cell line ¹		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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Lot No.: 84V

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.: **84V**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-B*07 SSP subtyping kit ²																					
					Prod. No.:	Well															
						33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
						201436433	201436434	201436435	201436436	201436437	201436438	201436439	201436440	201436441	201436442	201436443	201436444	201436445	201436446	201436447	201436448
	IHWC cell line ¹		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.: **84V**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*07 SSP subtyping kit ²																				
					Well															
				Prod. No.:	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
					201436449	201436450	201436451	201436452	201436453	201436454	201436455	201436456	201436457	201436458	201436459	201436460	201436461	201436462	201436463	201436464
	IHWC cell line ¹		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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Lot-specific information

CE
0088

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.: **84V**

Lot-specific information

CELL LINE VALIDATION SHEET								
HLA-B*07 SSP subtyping kit ²								
					Prod. No.:	Well		
						81	82	83
						201436465	201436466	201436467
	IHWC cell line ¹		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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Lot No.: 84V

Lot-specific information

¹The provided cell line HLA specificities are retrieved from the <http://www.ihwg.org/hla> web site. The specificity of an individual cell line may thus be subject to change.

²The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

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 43, 48 to 55, 57 to 61, 63, 65, 68 and 70 to 82 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, 43, 48, 50 to 53, 57, 59, 60, 63, 68, 70, 72, 73, 75 to 79 and 81 to 82 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 2, 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.

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.: **84V**

Lot-specific information

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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>

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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

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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**.