

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **38R**

Lot-specific information
Olerup SSP[®] HLA-C*07

Product number:	101.615-24/04 – including <i>Taq</i> pol. 101.615-24u/04u – without <i>Taq</i> pol.
Lot number:	38R
Expiry date:	2015-June-01
Number of tests:	24 tests – Product No. 101.615-24/24u 4 tests – Product No. 101.615-04/04u
Number of wells per test:	64
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. 38R.

**CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP[®]*
HLA-C*07 Lot (66N)**

The HLA-C*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

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

¹As described in section Uniquely Identified Alleles.

The HLA-C*07 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP[®]* HLA-C*07 lot was made (Lot No. 66N).

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

Well	5'-primer	3'-primer	rationale
18	-	Added	3'-primer added for the C*07:243 allele.
30	Added	-	5'-primer added for the C*07:227N allele.
35	Added	Added	Primer pair added for the C*07:224 allele.
36	Added	Added	Primer pair added for the C*07:224 allele, exchanged positive control primer pair.
37	-	Added	3'-primer added for the C*07:121Q allele.
40	Added	Added	Primer pair added for the C*07:235 allele.
43	-	-	Exchanged positive control primer pair.
45	Added	Added	Primer pair added for the C*07:245 allele.
48	Added	-	3'-primer added for the C*07:122 allele.
55	Added	-	5'-primer added for the C*07:252 allele.
57	Added	Added	Primer pair added for the C*07:01:25 allele.

Change in revision R01 compared to R00:

1. The HLA-C*07:24 and 07:218 and the C*03:125, 05:81, 06:87, 12:45 and 16:13 alleles are not amplified by primer mix 61. This has been corrected in the Specificity and Interpretation Tables. Thus, this lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:198N and the C*07:218 alleles.

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PRODUCT DESCRIPTION

HLA-C*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C*07:01 to HLA-C*07:263 alleles.

PLATE LAYOUT

Each test consists of 64 PCR reactions in a 64 well cut PCR plate.

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	54

The 64 well cut PCR plate is marked with ‘HLA-C*07’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘38R’.

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 heat-sealed with a PCR-compatible foil.

INTERPRETATION

The interpretation of HLA-C*07 SSP subtypings will be influenced by the C*01:60 allele, three C*02, thirteen C*03, fourteen C*04, the C*05, most C*06, most C*08, five C*12, the C*14:17 allele, two C*15, two C*16, the C*17 and the C*18 alleles when present on the other haplotype.

In addition, the A*01:110 allele will be amplified by primer mix 22, the A*29:10 and B*14:32 alleles will be amplified by primer mix 12, the A*30:01:03 allele will be amplified by primer mix 20, the A*33:03:09 allele will be amplified by primer mixes 20 and 24, the A*68:01:12 allele will be amplified by primer mix 24, the B*07:77 allele will be amplified by primer mixes 18 and 37, the B*07:87 and B*27:55 will be amplified by primer mix 50, the B*08:17, B*08:39 and B*08:47 alleles by primer mix 32, the B*15:193 allele by primer mixes 35 and 36, the B*27:36, B*48:21 and B*48:26 alleles by primer mix 7, the B*35:08:04 allele by primer mixes 2, 11, 20, 27, 42, 56 and 59, the B*35:178 and B*73:01-73:02 alleles will be amplified by primer mix 45, the B*37:04:02 allele by primer mixes 11, 14, 20, 53 and 59, the B*38:23 and B*39:73 alleles by primer mix 8, the B*40:60 allele by primer mixes 4, 18 and 37, the B*40:100 allele by primer mix 10, the B*44:148 allele by primer mixes 6 and 12, the B*46:06 allele by primer mix 16 and the B*56:08 and B*56:14 alleles will be amplified by primer mix 25.

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UNIQUELY IDENTIFIED ALLELES

All the HLA-C*07 alleles, i.e. **C*07:01 to C*07:263**, recognized by the HLA Nomenclature Committee in July 2012^{1,2,3} will be amplified by the primers in the HLA-C*07 SSP kit.

The HLA-C*07 kit enables separation of the confirmed HLA-C*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-C*07 alleles is listed below.

The HLA-C*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 C*07:78 and 07:235 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 40.

The C*07:93 and 07:207 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 42.

The C*07:99 and 07:183 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 43.

The C*07:100 and 07:161 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 49.

The C*07:104N, 07:119 and 07:124 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 50.

The C*07:117 and 07:126 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 51.

The C*07:118 and 07:203 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 52.

The C*07:122 and 07:151 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 53.

The C*07:129 and 07:153 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 54.

The C*07:132 and 07:179 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 55.

The C*07:147 and 07:241 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

The C*07:164N and 07:212 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 58.

The C*07:165 and 07:180 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

The C*07:227N and 07:254 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 30.

The HLA-C*07 subtyping kit cannot distinguish the following silent mutations: the C*07:01:01:01-07:01:04, 07:01:06-07:01:24 and 07:01:26-07:01:27 alleles, the C*07:02:01:01-07:02:36 alleles, the C*07:04:01-07:04:08, the C*07:27:01-07:27:02, the C*07:38:01-07:38:02, the C*07:56:01-07:56:02 or the C*07:141:01-07:141:02 alleles.

¹This lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:137:02 and C*07:186 alleles.

²This lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:198N and the C*07:218 alleles.

³HLA-C alleles listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, www.ebi.ac.uk/imgt/hla.

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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:01:01:01	Confirmed	C*07:02:21	Unconfirmed	C*07:29	Unconfirmed	C*07:78	Unconfirmed
C*07:01:01:02	Unconfirmed	C*07:02:22	Unconfirmed	C*07:30	Unconfirmed	C*07:79	Confirmed
C*07:01:02	Confirmed	C*07:02:23	Unconfirmed	C*07:31	Confirmed	C*07:80	Confirmed
C*07:01:03	Unconfirmed	C*07:02:24	Confirmed	C*07:32N	Confirmed	C*07:81	Unconfirmed
C*07:01:04	Unconfirmed	C*07:02:25	Unconfirmed	C*07:33N	Confirmed	C*07:82	Unconfirmed
C*07:01:05	Confirmed	C*07:02:26	Unconfirmed	C*07:35	Confirmed	C*07:83	Confirmed
C*07:01:06	Unconfirmed	C*07:02:27	Unconfirmed	C*07:36	Confirmed	C*07:84	Unconfirmed
C*07:01:07	Confirmed	C*07:02:28	Unconfirmed	C*07:37	Unconfirmed	C*07:85	Confirmed
C*07:01:08	Confirmed	C*07:02:29	Unconfirmed	C*07:38:01	Unconfirmed	C*07:86	Unconfirmed
C*07:01:09	Confirmed	C*07:02:30	Unconfirmed	C*07:38:02	Unconfirmed	C*07:87	Unconfirmed
C*07:01:10	Confirmed	C*07:02:31	Unconfirmed	C*07:39	Confirmed	C*07:88	Confirmed
C*07:01:11	Unconfirmed	C*07:02:32	Confirmed	C*07:40	Confirmed	C*07:89	Confirmed
C*07:01:12	Unconfirmed	C*07:02:33	Unconfirmed	C*07:41	Unconfirmed	C*07:90	Confirmed
C*07:01:13	Unconfirmed	C*07:02:34	Unconfirmed	C*07:42	Unconfirmed	C*07:91	Confirmed
C*07:01:14	Unconfirmed	C*07:02:35	Unconfirmed	C*07:43	Confirmed	C*07:92	Unconfirmed
C*07:01:15	Confirmed	C*07:02:36	Unconfirmed	C*07:44	Unconfirmed	C*07:93	Confirmed
C*07:01:16	Unconfirmed	C*07:03	Unconfirmed	C*07:45	Unconfirmed	C*07:94	Unconfirmed
C*07:01:17	Unconfirmed	C*07:04:01	Confirmed	C*07:46	Confirmed	C*07:95	Confirmed
C*07:01:18	Confirmed	C*07:04:02	Unconfirmed	C*07:47	Unconfirmed	C*07:96	Confirmed
C*07:01:19	Unconfirmed	C*07:04:03	Unconfirmed	C*07:48	Confirmed	C*07:97	Confirmed
C*07:01:20	Unconfirmed	C*07:04:04	Unconfirmed	C*07:49	Confirmed	C*07:98N	Unconfirmed
C*07:01:21	Unconfirmed	C*07:04:05	Unconfirmed	C*07:50	Unconfirmed	C*07:99	Unconfirmed
C*07:01:22	Unconfirmed	C*07:04:06	Unconfirmed	C*07:51	Confirmed	C*07:100	Confirmed
C*07:01:23	Unconfirmed	C*07:04:07	Unconfirmed	C*07:52	Unconfirmed	C*07:101	Confirmed
C*07:01:24	Unconfirmed	C*07:04:08	Unconfirmed	C*07:53	Unconfirmed	C*07:102	Unconfirmed
C*07:01:25	Unconfirmed	C*07:05	Confirmed	C*07:54	Confirmed	C*07:103	Unconfirmed
C*07:01:26	Unconfirmed	C*07:06	Confirmed	C*07:55N	Confirmed	C*07:104N	Confirmed
C*07:01:27	Unconfirmed	C*07:07	Unconfirmed	C*07:56:01	Unconfirmed	C*07:105	Unconfirmed
C*07:02:01:01	Confirmed	C*07:08	Unconfirmed	C*07:56:02	Confirmed	C*07:106	Confirmed
C*07:02:01:02	Unconfirmed	C*07:09	Unconfirmed	C*07:57	Unconfirmed	C*07:107	Unconfirmed
C*07:02:01:03	Confirmed	C*07:10	Confirmed	C*07:58	Unconfirmed	C*07:108	Confirmed
C*07:02:02	Unconfirmed	C*07:11	Unconfirmed	C*07:59	Confirmed	C*07:109	Confirmed
C*07:02:03	Unconfirmed	C*07:12	Confirmed	C*07:60	Confirmed	C*07:110	Unconfirmed
C*07:02:04	Confirmed	C*07:13	Confirmed	C*07:61N	Confirmed	C*07:111	Unconfirmed
C*07:02:05	Unconfirmed	C*07:14	Unconfirmed	C*07:62	Unconfirmed	C*07:112	Confirmed
C*07:02:06	Confirmed	C*07:15	Confirmed	C*07:63	Unconfirmed	C*07:113	Unconfirmed
C*07:02:07	Confirmed	C*07:16	Confirmed	C*07:64	Unconfirmed	C*07:114	Unconfirmed
C*07:02:08	Confirmed	C*07:17	Confirmed	C*07:65	Confirmed	C*07:115	Unconfirmed
C*07:02:09	Unconfirmed	C*07:18	Confirmed	C*07:66	Confirmed	C*07:116	Unconfirmed
C*07:02:10	Confirmed	C*07:19	Confirmed	C*07:67	Confirmed	C*07:117	Confirmed
C*07:02:11	Confirmed	C*07:20	Confirmed	C*07:68	Confirmed	C*07:118	Confirmed
C*07:02:12	Unconfirmed	C*07:21	Unconfirmed	C*07:69	Confirmed	C*07:119	Confirmed
C*07:02:13	Unconfirmed	C*07:22	Confirmed	C*07:70	Confirmed	C*07:120	Confirmed
C*07:02:14	Unconfirmed	C*07:23	Unconfirmed	C*07:71	Unconfirmed	C*07:121Q	Confirmed
C*07:02:15	Unconfirmed	C*07:24	Unconfirmed	C*07:72	Confirmed	C*07:122	Confirmed
C*07:02:16	Confirmed	C*07:25	Unconfirmed	C*07:73	Confirmed	C*07:123	Confirmed
C*07:02:17	Confirmed	C*07:26	Confirmed	C*07:74	Unconfirmed	C*07:124	Confirmed
C*07:02:18	Confirmed	C*07:27:01	Unconfirmed	C*07:75	Confirmed	C*07:125	Confirmed
C*07:02:19	Unconfirmed	C*07:27:02	Confirmed	C*07:76	Confirmed	C*07:126	Confirmed
C*07:02:20	Confirmed	C*07:28	Confirmed	C*07:77	Unconfirmed	C*07:127	Confirmed

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Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:128	Unconfirmed	C*07:166	Unconfirmed	C*07:205	Confirmed	C*07:245	Unconfirmed
C*07:129	Confirmed	C*07:167	Unconfirmed	C*07:206	Unconfirmed	C*07:246	Unconfirmed
C*07:130	Confirmed	C*07:168	Unconfirmed	C*07:207	Confirmed	C*07:247	Unconfirmed
C*07:131	Unconfirmed	C*07:169	Unconfirmed	C*07:208	Unconfirmed	C*07:248	Unconfirmed
C*07:132	Confirmed	C*07:170	Unconfirmed	C*07:209	Unconfirmed	C*07:249	Unconfirmed
C*07:133	Unconfirmed	C*07:171	Unconfirmed	C*07:210	Unconfirmed	C*07:250	Unconfirmed
C*07:134	Unconfirmed	C*07:172	Confirmed	C*07:211	Unconfirmed	C*07:251	Unconfirmed
C*07:135	Unconfirmed	C*07:173	Confirmed	C*07:212	Confirmed	C*07:252	Confirmed
C*07:136	Unconfirmed	C*07:174	Unconfirmed	C*07:213	Unconfirmed	C*07:253	Unconfirmed
C*07:137:01	Unconfirmed	C*07:175	Unconfirmed	C*07:214	Unconfirmed	C*07:254	Unconfirmed
C*07:137:02	Confirmed	C*07:176	Confirmed	C*07:215	Unconfirmed	C*07:255	Unconfirmed
C*07:138	Unconfirmed	C*07:177	Unconfirmed	C*07:216	Unconfirmed	C*07:256	Unconfirmed
C*07:139	Unconfirmed	C*07:178	Unconfirmed	C*07:217	Unconfirmed	C*07:257	Unconfirmed
C*07:140	Confirmed	C*07:179	Confirmed	C*07:218	Confirmed	C*07:258	Unconfirmed
C*07:141:01	Confirmed	C*07:180	Confirmed	C*07:219	Unconfirmed	C*07:259	Unconfirmed
C*07:141:02	Confirmed	C*07:181	Unconfirmed	C*07:220	Unconfirmed	C*07:260	Unconfirmed
C*07:142	Unconfirmed	C*07:182	Unconfirmed	C*07:221	Unconfirmed	C*07:261	Unconfirmed
C*07:143	Confirmed	C*07:183	Unconfirmed	C*07:222	Unconfirmed	C*07:262	Unconfirmed
C*07:144	Unconfirmed	C*07:184	Confirmed	C*07:223	Unconfirmed	C*07:263	Unconfirmed
C*07:145	Confirmed	C*07:185	Unconfirmed	C*07:224	Confirmed		
C*07:146	Unconfirmed	C*07:186	Confirmed	C*07:225	Unconfirmed		
C*07:147	Confirmed	C*07:187	Unconfirmed	C*07:226	Unconfirmed		
C*07:148	Confirmed	C*07:188	Unconfirmed	C*07:227N	Unconfirmed		
C*07:149	Unconfirmed	C*07:189	Unconfirmed	C*07:228	Unconfirmed		
C*07:150Q	Unconfirmed	C*07:190	Unconfirmed	C*07:229	Unconfirmed		
C*07:151	Confirmed	C*07:191N	Unconfirmed	C*07:230	Unconfirmed		
C*07:152N	Unconfirmed	C*07:192	Confirmed	C*07:231	Unconfirmed		
C*07:153	Confirmed	C*07:193	Unconfirmed	C*07:232	Unconfirmed		
C*07:154	Confirmed	C*07:194	Unconfirmed	C*07:233	Unconfirmed		
C*07:155	Confirmed	C*07:195	Unconfirmed	C*07:234	Unconfirmed		
C*07:156	Unconfirmed	C*07:196	Confirmed	C*07:235	Unconfirmed		
C*07:157	Unconfirmed	C*07:197	Unconfirmed	C*07:236	Unconfirmed		
C*07:158	Unconfirmed	C*07:198N	Unconfirmed	C*07:237	Unconfirmed		
C*07:159	Unconfirmed	C*07:199:01	Unconfirmed	C*07:238	Confirmed		
C*07:160	Unconfirmed	C*07:199:02	Unconfirmed	C*07:239	Unconfirmed		
C*07:161	Unconfirmed	C*07:200	Unconfirmed	C*07:240	Unconfirmed		
C*07:162	Unconfirmed	C*07:201	Unconfirmed	C*07:241	Unconfirmed		
C*07:163	Unconfirmed	C*07:202	Confirmed	C*07:242	Unconfirmed		
C*07:164N	Unconfirmed	C*07:203	Confirmed	C*07:243	Confirmed		
C*07:165	Confirmed	C*07:204	Unconfirmed	C*07:244	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 380 alleles generate 162 amplification patterns that can be combined in 13203 homozygous and heterozygous combinations. 4562 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

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Lot-specific information
SPECIFICITY TABLE

HLA-C*07 SSP subtyping

Specificities and sizes of the PCR products of the 64 primer mixes used for
 HLA-C*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*07 alleles ³	Other amplified HLA-Class I alleles ⁴
1¹⁰	245 bp, 425 bp	800 bp	*07:01:01:01-07:33N, 07:35-07:263	
2	290 bp	800 bp	*07:01:01:01-07:01:04, 07:01:06-07:01:27, 07:05-07:07, 07:09, 07:14, 07:16, 07:18, 07:20-07:22, 07:24, 07:26-07:28, 07:30-07:31, 07:35-07:36, 07:40, 07:43-07:44, 07:52-07:53, 07:55N, 07:58-07:60, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96, 07:98N, 07:103-07:104N, 07:106, 07:109, 07:111, 07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:184, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:225, 07:227N-07:228, 07:231, 07:235-07:237, 07:246-07:249, 07:253-07:257, 07:263	*03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 08:15:02, 12:03:10, B*35:08:04
3⁵	110 bp	800 bp	*07:01:01:01-07:01:24, 07:01:26-07:01:27, 07:06, 07:09, 07:18-07:22, 07:24, 07:26, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:59, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96, 07:98N, 07:103-07:104N, 07:106,	*04:112, 06:44, 18:05

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			07:108, 07:110-07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:225, 07:227N-07:228, 07:230-07:231, 07:235-07:237, 07:246-07:250, 07:253-07:257, 07:263	
4	185 bp	1070 bp	*07:02:01:01-07:02:36, 07:10, 07:13, 07:15, 07:19, 07:23, 07:25, 07:29, 07:32N-07:33N, 07:37-07:39, 07:42, 07:46-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:62, 07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:100, 07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:138, 07:143-07:147, 07:149, 07:152N, 07:154-07:155, 07:157-07:161, 07:167-07:169, 07:172, 07:174-07:175, 07:178, 07:183, 07:185-07:187, 07:192-07:195, 07:198N, 07:202, 07:208-07:209, 07:211, 07:213, 07:216-07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238-07:241, 07:243-07:245, 07:251-07:252, 07:259-07:262	B*40:60
5^{5,11}	70 bp, 145 bp, 245 bp	800 bp	*07:03, 07:53, 07:57, 07:216	
6⁵	100 bp	1070 bp	*07:04:01-07:04:08, 07:11-07:12, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02	*05:62, B*44:148
7	190 bp	1070 bp	*07:05	B*27:36, B*48:21, B*48:26

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

8¹²	285 bp, 505 bp	1070 bp	*07:06, 07:45	*02:57, 04:40, B*38:23, B*39:73
9^{6,13}	215 bp, 240 bp, 425 bp	800 bp	*07:07, 07:09, 07:29, 07:33N, 07:49, 07:76, 07:177, 07:184, 07:210, 07:238, 07:247-07:248	*03:04:19, 03:113, 06:17, 18:01-18:05
10	185 bp	1070 bp	*07:08, 07:108	*04:58, B*40:100
11¹⁴	275 bp 305 bp	800 bp	*07:10, 07:24, 07:43, 07:112, 07:184, 07:196, 07:218	*03:04:19, 03:113, B*35:08:04, B*37:04:02
12	130 bp	1070 bp	*07:12, 07:41	*04:120, 05:01:01:01-05:01:21, 05:03-05:08, 05:10-05:16, 05:18:01-05:22:02, 05:24-05:48N, 05:50-05:51Q, 05:53-05:61, 05:63-05:81, 08:01:01-08:06, 08:08-08:14, 08:16:01-08:46, 08:48-08:50, 08:52N-08:63, 08:33:03, A*29:10, B*14:32, B*44:148
13^{5,7}	90 bp	1070 bp	*07:11, 07:56:01-07:56:02, 07:60, 07:79, 07:109	*03:69, 04:27, 04:52, 06:53:01, 12:58
14	240 bp	800 bp	*07:13, 07:28	*05:01:17, 05:09:02, 05:17, 08:15:02, B*37:04:02
15^{5,15}	80 bp, 290 bp, 460 bp	1070 bp	*07:14, 07:50, 07:89	
16	535 bp	1070 bp	*07:02:01:01-07:02:36, 07:04:01-07:05, 07:08, 07:10-07:11, 07:13-07:15, 07:23, 07:25, 07:27:01-07:27:02, 07:29, 07:31-07:33N, 07:37-07:39, 07:42-07:43, 07:45-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:139, 07:142-07:147, 07:149, 07:152N, 07:154-07:155, 07:157-07:161, 07:167-07:169, 07:172, 07:174-07:175, 07:177-	*01:60, 03:14, 03:162, 04:58, 05:23, 05:62, 08:07, 08:47, 12:14:01-12:14:02, 14:17, 17:01:01:01-17:13, B*46:06

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **38R**

Lot-specific information

Lot No.: 38R		Lot-specific information	
			07:178, 07:181, 07:183-07:187, 07:192-07:195, 07:198N- 07:199:02, 07:202, 07:208- 07:209, 07:211, 07:213, 07:216- 07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238- 07:241, 07:243-07:245, 07:251- 07:252, 07:258-07:262
17⁷	130 bp	1070 bp	*07:04:01-07:04:08, 07:11, 07:63, *05:23, 05:62, 08:07, 07:68, 07:101, 07:139, 07:142, 08:47 07:181, 07:199:01-07:199:02, 07:260
18^{5,16}	120 bp, 230 bp	800 bp	*07:15, 07:52, 07:243 *05:03, B*07:77, B*40:60
19^{6,17}	220 bp, 355 bp, 465 bp	800 bp	*07:07, 07:16, 07:26, 07:33N, 07:51, 07:80, 07:92, 07:96, 07:177, 07:181
20^{7,8,18}	145 bp, 170 bp, 195 bp	1070 bp	*07:03, 07:17, 07:44, 07:48, 07:81, 07:140-07:141:02, 07:168 *03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 08:15:02, 12:03:10, A*30:01:03, A*33:03:09, B*35:08:04, B*37:04:02
21^{5,19}	100 bp, 225 bp	800 bp	*07:06, 07:18-07:19, 07:54
22²⁰	250 bp, 205 bp	800 bp	*07:20, 07:84, 07:96, 07:127, 07:263 *02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 06:70, 15:25, A*01:110
23^{7,21}	155 bp, 185 bp	1070 bp	*07:21, 07:23
24⁷	130 bp	1070 bp	*07:22, 07:25, 07:137:01, 07:138 *12:03:10, A*33:03:09, A*68:01:12
25^{5,22}	105 bp, 150 bp	1070 bp	*07:30, 07:46 B*56:08^w, 56:14
26^{5,23}	100 bp, 250 bp, 300 bp	1070 bp	*07:31-07:32N, 07:55N, 07:177 *12:03:10
27⁵	125 bp	1070 bp	*07:37, 07:69, 07:176 *05:01:17, 05:09:02, 08:15:02, B*35:08:04
28²⁴	175 bp, 260 bp	800 bp	*07:35, 07:44, 07:47
29	255 bp	1070 bp	*07:36, 07:42
30^{5,7,25}	60 bp, 260 bp	1070 bp	*07:75, 07:227N, 07:254 *04:66

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **38R**

Lot-specific information

31	415 bp	1070 bp	*07:39-07:40, 07:177, 07:210 ^W , 07:238 ^W	
32²⁶	245 bp, 285 bp	1070 bp	*07:07, 07:09, 07:49, 07:60, 07:76, 07:79, 07:210, 07:238, 07:247	*02:14, 03:39, 03:67, 04:42, 05:43, 06:02:01:01- 06:02:01:02, 06:02:03- 06:02:05, 06:02:07- 06:02:11, 06:02:13- 06:02:21, 06:04-06:10, 06:12-06:51, 06:53:01- 06:75, 06:78-06:87, 15:23, 18:01-18:05, B*08:17, B*08:39, B*08:47
33²⁷	205 bp, 230 bp	1070 bp	*07:66, 07:82	
34^{5,28}	105 bp, 270 bp	1070 bp	*07:67, 07:70	
35^{6,29}	185 bp, 320 bp, 360 bp	1070 bp	*07:71-07:72, 07:107, 07:224	*06:22, 16:31, B*15:193
36^{6,30}	185 bp, 265 bp	800 bp	*07:20, 07:64, 07:73, 07:92, 07:96, 07:107, 07:172, 07:224	*06:22, 16:31, 18:04, B*15:193
37^{7,31}	245 bp, 275 bp	1070 bp	*07:38:01-07:38:02, 07:63, 07:68, 07:121Q, 07:260	*08:38, B*07:77, B*40:60
38^{6,7,9,32}	135 bp, 195 bp, 405 bp	1070 bp	*07:58, 07:61N, 07:65	
39^{5,33}	100 bp, 255 bp	800 bp	*07:59, 07:74	
40^{5,7,34}	120 bp, 205 bp, 440 bp	1070 bp	*07:07, 07:09, 07:62, 07:76, 07:78, 07:235	*06:17, 18:01-18:05
41³⁵	140 bp, 255 bp	1070 bp	*07:88, 07:91	
42^{5,36}	100 bp, 205 bp, 250 bp	1070 bp	*07:15, 07:77, 07:93, 07:123, 07:173, 07:207	B*35:08:04
43^{5,6,37}	105 bp, 140 bp, 175 bp	800 bp	*07:80, 07:94, 07:99, 07:183	
44^{6,7,38}	165 bp, 195 bp	1070 bp	*07:65, 07:77, 07:98N	
45^{7,39}	240 bp, 475 bp	1070 bp	*07:95, 07:245	*04:34, 04:122, B*35:178, B*73:01- 73:02
46⁴⁰	200 bp, 315 bp, 350 bp, 420 bp	1070 bp	*07:83, 07:90, 07:152N, 07:202	
47⁴¹	200 bp, 420 bp, 455 bp	1070 bp	*07:86, 07:97, 07:152N	

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

48 ^{7,42}	155 bp, 220 bp, 400 bp	1070 bp	*07:85, 07:87, 07:122	
49 ⁴³	155 bp, 220 bp	800 bp	*07:100-07:101, 07:148, 07:161	*05:42, 05:46, 06:67, 08:05, 08:21, 17:05
50 ^{5,44}	105 bp, 170 bp, 425 bp	1070 bp	*07:104N, 07:119, 07:124, 07:155	B*07:87, B*27:55
51 ^{5,45}	65 bp, 235 bp, 285 bp	1070 bp	*07:117, 07:121Q, 07:126	
52 ^{5,46}	65 bp, 205 bp, 280 bp	1070 bp	*07:106, 07:118, 07:203	
53 ^{5,47}	110 bp, 155 bp	1070 bp	*07:122, 07:140, 07:151, 07:154	B*37:04:02
54 ^{5,48}	120 bp, 235 bp, 340 bp, 370 bp	1070 bp	*07:64, 07:125, 07:129, 07:153	
55 ⁴⁹	150 bp, 210 bp, 290 bp	1070 bp	*07:132, 07:179, 07:252	*06:07
56 ⁵⁰	210 bp, 255 bp	1070 bp	*07:123, 07:143, 07:150Q, 07:173	B*35:08:04
57 ^{5,51}	70 bp, 175 bp	800 bp	*07:01:25, 07:130	*05:01:17, 05:09:02, 05:17, 08:15:02
58 ^{5,52}	80 bp, 450 bp	1070 bp	*07:137:01-07:137:02, 07:164N, 07:186, 07:212	*03:162
59 ⁶	200 bp	1070 bp	*07:81, 07:145, 07:168, 07:191N	B*35:08:04, B*37:04:02
60 ⁵³	130 bp, 305 bp, 370 bp	1070 bp	*07:147, 07:165, 07:180, 07:241	*03:04:19, 03:113, 05:01:17, 05:09:02, 08:15:02, 12:03:10
61	245 bp	1070 bp	*07:120	
62 ⁵⁴	200 bp, 280 bp	1070 bp	*07:84, 07:106, 07:205	
63 ⁵⁵	275 bp, 320 bp	800 bp	*07:24, 07:198N, 07:202, 07:218	
64 ^{7,56}	135 bp, 225 bp	1070 bp	*07:69, 07:192	

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-C*07 SSP typings.

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

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

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

101.615-24/04 – including *Taq* pol., IFU-01
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Lot No.: 38R**Lot-specific information**

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

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

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

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

In addition, wells number 2, 3, 5, 9, 11, 14, 18, 19, 21, 22, 28, 39, 43, 49, 57 and 63 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 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. We assume that unknown sequences in these regions are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-C alleles non-HLA-C*07 alleles will be amplified by primer mixes 2, 3, 6, 8 to 14, 16 to 18, 20, 22, 24, 26, 27, 30, 32, 35, 36, 37, 40, 45, 49, 55, 57, 58, 60 and 61. In addition, the A*01:110 allele will be amplified by primer mix 22, the A*29:10 and B*14:32 alleles will be amplified by primer mix 12, the A*30:01:03 allele will be amplified by primer mix 20, the A*33:03:09 allele will be amplified by primer mixes 20 and 24, the A*68:01:12 allele will be amplified by primer mix 24, the B*07:77 allele will be amplified by primer mixes 18 and 37, the B*07:87 and B*27:55 will be amplified by primer mix 50, the B*08:17, B*08:39 and B*08:47 alleles by primer mix 32, the B*15:193 allele by primer mixes 35 and 36, the B*27:36, B*48:21 and B*48:26 alleles by primer mix 7, the B*35:08:04 allele by primer mixes 2, 11, 20, 27, 42, 56 and 59, the B*35:178 and B*73:01-73:02 alleles will be amplified by primer mix 45, the B*37:04:02 allele by primer mixes 11, 14, 20, 53 and 59, the B*38:23 and B*39:73 alleles by primer mix 8, the B*40:60 allele by primer mixes 4, 18 and 37, the B*40:100 allele by primer mix 10, the B*44:148 allele by primer mixes 6 and 12, the B*46:06 allele by primer mix 16 and the B*56:08 and B*56:14 alleles will be amplified by primer mix 25.

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

⁶Primer mixes 9, 19, 35, 36, 38, 43, 44 and 59 have a tendency to give rise to primer oligomer formation.

⁷Primer mixes 13, 17, 20, 23, 24, 30, 37, 38, 40, 44, 45, 48 and 64 may have tendencies of unspecific amplifications, most pronounced in primer mix 24.

⁸Primer mix 20 may give rise to a lower yield of HLA-specific PCR product than the other C*07 primer mixes.

⁹Primer mix 38 may generate a false band of about 900 base pairs. This band should be disregarded when interpreting HLA-C*07 SSP typings.

¹⁰Primer mix 1: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49, 07:76, 07:115, 07:210, 07:223, 07:238 and 07:247 alleles. Specific PCR fragment of 425 bp in the C*07:02:21, 07:41 and 07:166 alleles. Specific PCR fragment of 245 and 425 bp in the C*07:01:01:01-07:02:20, 07:02:22-07:06, 07:08, 07:10-07:33N, *07:35-07:40, 07:42-07:48, 07:50-07:75, 07:77-07:114, 07:116-07:165, 07:167-07:209 and 07:211-07:222, 07:224-07:237, 07:239-07:246 and 07:248-07:263 alleles.

¹¹Primer mix 5: Specific PCR fragment of 70 bp in the C*07:53 and 07:216 alleles. Specific PCR fragment of 145 bp in the C*07:57 allele. Specific PCR fragment of 245 bp in the C*07:03 allele.

¹²Primer mix 8: Specific PCR fragment of 285 bp in the C*07:45 and the C*02:57 and 04:40 and in the B*38:23 and B*39:73 alleles. Specific PCR fragment of 505 bp in the C*07:06 allele.

¹³Primer mix 9: Specific PCR fragment of 215 bp in the C*07:33N allele. Specific PCR fragment of 240 bp in the C*07:29, 07:177, 07:184 and 07:248 and the C*03:04:19 and 03:113 alleles. Specific PCR fragment of 425 bp in the C*07:07, 07:09, 07:49, 07:76, 07:210, 07:238 and 07:247 and the C*06:17 and 18:01-18:05 alleles.

101.615-24/04 – including *Taq* pol., IFU-01
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¹⁴Primer mix 11: Specific PCR fragment of 275 bp in the C*07:24 and 07:218 alleles. Specific PCR fragment of 300 bp in the C*07:10, 07:43, 07:112, 07:184 and 07:196 and the C*03:04:19 and 03:113 and in the B*35:08:04 and B*37:04:02 alleles.

¹⁵Primer mix 15: Specific PCR fragment of 80 bp in the C* 07:50 allele. Specific PCR fragment of 290 bp in the C*07:14 allele. Specific PCR fragment of 460 bp in the C*07:89 allele.

¹⁶Primer mix 18: Specific PCR fragment of 120 bp in the C*07:52 and 07:243 and the C*05:03 alleles. Specific PCR fragment of 230 bp in the C*07:15 and in the B*07:77 and B*40:60 alleles.

¹⁷Primer mix 19: Specific PCR fragment of 220 bp in the C*07:26, 07:33N, 07:92 and 07:96:01 alleles. Specific PCR fragment of 355 bp in the C*07:80 allele. Specific PCR fragment of 465 bp in the C*07:07, 07:16, 07:51, 07:177 and 07:181 alleles.

¹⁸Primer mix 20: Specific PCR fragment of 145 bp in the C*07:03, 07:17:01 and 07:140-07:141:02 and the C*03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 08:15:02 and 12:03:10 and in the A*30:01:03 and A*33:03:09 alleles. Specific PCR fragment of 170 bp in the 07:44 and 07:48 alleles. Specific PCR fragment of 195 bp in the C*07:81 and 07:168 alleles. Specific PCR fragment of 145 bp and 195 bp in the B*35:08:04 and B*37:04:02 alleles.

¹⁹Primer mix 21: Specific PCR fragment of 100 bp in the C*07:54 allele. Specific PCR fragment of 225 bp in the C*07:06, 07:18 and 07:19 alleles.

²⁰Primer mix 22: Specific PCR fragment of 205 bp in the C*07:84 allele. Specific PCR fragment of 250 bp in the C*07:20, 07:96:01, 07:127 and 07:263 and the C*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 06:70 and 15:25 and in the A*01:110 alleles.

²¹Primer mix 23: Specific PCR fragment of 155 bp in the C*07:23 allele. Specific PCR fragment of 185 bp in the C*07:21 allele.

²²Primer mix 25: Specific PCR fragment of 105 bp in the C*07:46 and B*56:06^w and B*56:14 alleles. Specific PCR fragment of 150 bp in the C*07:30 allele.

²³Primer mix 26: Specific PCR fragment of 100 bp in the C*07:32N allele. Specific PCR fragment of 250 bp in the C*07:55N allele. Specific PCR fragment of 300 bp in the C*07:31 and 07:177 and the C*12:03:10 alleles.

²⁴Primer mix 28: Specific PCR fragment of 175 bp in the C*07:44 allele. Specific PCR fragment of 260 bp in the C*07:35 and 07:47 alleles.

²⁵Primer mix 30: Specific PCR fragment of 60 bp in the C*07:75 and 07:254 alleles. Specific PCR fragment of 260 bp in the C*07:227N and the C*04:66 alleles.

²⁶Primer mix 32: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49, 07:76, 07:210, 07:238 and 07:247 and the C*02:14, 04:42, 05:43, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:21, 06:04-06:10, 06:12-06:51, 06:53:01-06:75, 06:78-06:87, 15:23 and 18:01-18:05 and in the B*08:17, B*08:47 alleles. Specific PCR fragment of 285 bp in the C*07:60 and 07:79 and the C*03:39 and 03:67 and the B*08:39 alleles.

²⁷Primer mix 33: Specific PCR fragment of 205 bp in the C*07:66 allele. Specific PCR fragment of 230 bp in the C*07:82 allele.

²⁸Primer mix 34: Specific PCR fragment of 105 bp in the C*07:67 allele. Specific PCR fragment of 270 bp in the C*07:70 allele.

²⁹Primer mix 35: Specific PCR fragment of 185 bp in the C*07:107 and 07:224 and the C*06:22 and 16:31 and the B*15:193 alleles. Specific PCR fragment of 320 bp in the C*07:72 allele. Specific PCR fragment of 360 bp in the C*07:71 allele.

³⁰Primer mix 36: Specific PCR fragment of 185 bp in the C*07:107 and 07:224 and in the C*06:22 and 16:31 and the B*15:193 alleles. Specific PCR fragment of 265 bp in the C*07:20, 07:64, 07:73, 07:92, 07:96:01 and 07:172 and the C*18:04 alleles.

³¹Primer mix 37: Specific PCR fragment of 245 bp in the C*07:63 and 07:121Q alleles. Specific PCR fragment of 275 bp in the C*07:38:01-07:38:02, 07:68 and 07:260 and the C*08:38 and the B*07:77 and B*40:60 alleles.

³²Primer mix 38: Specific PCR fragment of 135 bp in the C*07:58 allele. Specific PCR fragment of 195 bp in the C*07:65 allele. Specific PCR fragment of 405 bp in the C*07:61N allele.

³³Primer mix 39: Specific PCR fragment of 100 bp in the C*07:74 allele. Specific PCR fragment of 255 bp in the C*07:59 allele.

³⁴Primer mix 40: Specific PCR fragment of 120 bp in the C*07:235 allele. Specific PCR fragment of 205 bp in the C*07:62 allele. Specific PCR fragment of 440 bp in the C*07:07, 07:09, 07:76 and 07:78 and in the C*06:17 and 18:01-18:05 alleles.

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101.615-24u/04u – without *Taq* pol., IFU-02

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³⁵Primer mix 41: Specific PCR fragment of 140 bp in the C*07:91 allele. Specific PCR fragment of 255 bp in the C*07:88 allele.

³⁶Primer mix 42: Specific PCR fragment of 100 bp in the C*07:15 and 07:207 alleles. Specific PCR fragment of 205 bp in the C*07:77 and 07:93 alleles. Specific PCR fragment of 250 bp in the C*07:123 and 07:173 and the B*35:08:04 alleles.

³⁷Primer mix 43: Specific PCR fragment of 105 bp in the C*07:94 and 07:183 alleles. Specific PCR fragment of 140 bp in the C*07:99 allele. Specific PCR fragment of 175 bp in the C*07:80 allele.

³⁸Primer mix 44: Specific PCR fragment of 165 bp in the C*07:98N allele. Specific PCR fragment of 195 bp in the C*07:65 and 07:77 alleles.

³⁹Primer mix 45: Specific PCR fragment of 240 bp in the C*07:245 allele. Specific PCR fragment of 475 bp in the C*07:95 and the C*04:34 and 04:122 and in the B*35:178 and B*73:01-73:02 alleles.

⁴⁰Primer mix 46: Specific PCR fragment of 200 bp in the C*07:83 allele. Specific PCR fragment of 315 bp in the C*07:202 allele. Specific PCR fragment of 350 bp in the C*07:90 allele. Specific PCR fragment of 420 bp in the C*07:152N allele.

⁴¹Primer mix 47: Specific PCR fragment of 200 bp in the C*07:86 allele. Specific PCR fragment of 420 bp in the C*07:152N allele. Specific PCR fragment of 455 bp in the C*07:97 allele.

⁴²Primer mix 48: Specific PCR fragment of 155 bp in the C*07:122 allele. Specific PCR fragment of 220 bp in the C*07:87 allele. Specific PCR fragment of 400 bp in the C*07:85 allele.

⁴³Primer mix 49: Specific PCR fragment of 155 bp in the C*07:101, 07:148 and 07:161 and the C*05:42, 05:46, 06:67, 08:05, 08:21 and 17:05 alleles. Specific PCR fragment of 220 bp in the C*07:100 allele.

⁴⁴Primer mix 50: Specific PCR fragment of 105 bp in the C*07:104N allele. Specific PCR fragment of 170 bp in the C*07:119 and in the B*07:87 and B*27:55 alleles. Specific PCR fragment of 425 bp in the C*07:124 and 07:155 alleles.

⁴⁵Primer mix 51: Specific PCR fragment of 65 bp in the C*07:126 allele. Specific PCR fragment of 235 bp in the C*07:121Q allele. Specific PCR fragment of 285 bp in the C*07:117 allele.

⁴⁶Primer mix 52: Specific PCR fragment of 65 bp in the C*07:203 allele. Specific PCR fragment of 205 bp in the C*07:118 allele. Specific PCR fragment of 280 bp in the C*07:106 allele.

⁴⁷Primer mix 53: Specific PCR fragment of 110 bp in the C*07:140, 07:151 and 07:154 and in the B*37:04:02 alleles. Specific PCR fragment of 155 bp in the C*07:122 allele.

⁴⁸Primer mix 54: Specific PCR fragment of 120 bp in the C*07:153 allele. Specific PCR fragment of 235 bp in the C*07:64 allele. Specific PCR fragment of 340 bp in the C*07:125 allele. Specific PCR fragment of 370 bp in the C*07:129 allele.

⁴⁹Primer mix 55: Specific PCR fragment of 150 bp in the C*07:179 and the C*06:07 alleles. Specific PCR fragment of 210 bp in the C*07:252 allele. Specific PCR fragment of 290 bp in the C*07:132 allele.

⁵⁰Primer mix 56: Specific PCR fragment of 210 bp in the C*07:150Q allele. Specific PCR fragment of 255 bp in the C*07:123, 07:143 and 07:173 and the B*35:08:04 alleles.

⁵¹Primer mix 57: Specific PCR fragment of 70 bp in the C*07:01:25 allele. Specific PCR fragment of 175 bp in the C*07:130 and the C*05:01:17, 05:09:02, 05:17 and 08:15:02 alleles.

⁵²Primer mix 58: Specific PCR fragment of 80 bp in the C*07:137:01-07:137:02, 07:186 and 07:212 and the C*03:162 alleles. Specific PCR fragment of 450 bp in the C*07:164N allele.

⁵³Primer mix 60: Specific PCR fragment of 130 bp in the C*07:165 and 07:241 and the C*03:04:19, 03:113, 05:01:17, 05:09:02, 08:15:02 and 12:03:10 alleles. Specific PCR fragment of 305 bp in the C*07:147 allele. Specific PCR fragment of 370 bp in the C*07:180 allele.

⁵⁴Primer mix 62: Specific PCR fragment of 200 bp in the C*07:84 and 07:205 alleles. Specific PCR fragment of 280 bp in the C*07:106 allele.

⁵⁵Primer mix 63: Specific PCR fragment of 275 bp in the C*07:24 and 07:218 alleles. Specific PCR fragment of 320 bp in the C*07:198N and 07:202 alleles.

⁵⁶Primer mix 64: Specific PCR fragment of 135 bp in the C*07:69 allele. Specific PCR fragment of 225 bp in the C*07:192 allele.

‘w’, may be weakly amplified.

101.615-24/04 – including Taq pol., IFU-01
 101.615-24u/04u – without Taq pol., IFU-02

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

Lot No.: **38R**

Lot-specific information

Well No.		INTERPRETATION TABLE																																
		HLA-C*07 SSP subtyping																																
		Amplification patterns of the C*07:01 to C*07:263 alleles																																
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	Length of spec. PCR product(s)		
205	270	320	265	275	405	255	440	255	250	175	195	475	350	455	400	220	425	285	280	155	370	290	255	175	450	200	370	405	280	320	225		Length of int. pos. control ¹	
431	388	47	47	368	47	125	47	125	409	97	463	341	47	47	47	176	47	368	179	503	47	91	397	270	47	454	47	270	176	47	193			5'-primer(s) ²
5'-CCA 3'	5'-ggt 3'	5'-gTC 3'	5'-gTC 3'	5'-CCT 3'	5'-gCT 3'	5'-CTC 3'	5'-ACC 3'	5'-CgA 3'	5'-TCA 3'	5'-gTT 3'	5'-gCT 3'	5'-CCA 3'	5'-ggg 3'	5'-AgC 3'	5'-ATC 3'	5'-TTT 3'	5'-AgA 3'	5'-gTC 3'	5'-gTC 3'	5'-gGC 3'	5'-gAC 3'	5'-CAC 3'	5'-CgG 3'	5'-ggc 3'	5'-CAA 3'	5'-gTT 3'	5'-TgA 3'	5'-TgA 3'	5'-CCC 3'	5'-CAA 3'	5'-ggT 3'	5'-gTC 3'		
688	554	419	419	388	464	794	486	520	445	512	464	652	458	457	439	440	361		317	540	648	173	409	485	512	463	527	355	185	385	368			



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **38R**

Lot-specific information

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245		
PCR product(s)	425				245	145		505	240	185	300				290			230	355	220	195	225	250	185		150	250			260		285		
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		
HLA-C allele ^{4,5}																																		
*07:01:01:01-07:01:04, 07:01:06-07:01:24, 07:01:26-07:01:27, 07:103, 07:111, 07:113, 07:115-07:116, 07:128, 07:131, 07:134, 07:156, 07:162-07:163, 07:166, 07:170, 07:182, 07:188- 07:190, 07:197, 07:200- 07:201, 07:204, 07:206, 07:214-07:215, 07:219, 07:222-07:223, 07:225, 07:228, 07:231, 07:236- 07:237, 07:246, 07:249, 07:253, 07:255-07:257	1	2	3																															
*07:01:05, 07:110, 07:230, 07:250	1		3																															
*07:01:25	1	2																																
*07:02:01:01-07:02:36, 07:102, 07:105, 07:114, 07:133, 07:135-07:136, 07:144, 07:146, 07:149, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193-07:195, 07:208- 07:209, 07:211, 07:213, 07:217, 07:220-07:221, 07:226, 07:229, 07:232- 07:234, 07:239-07:240, 07:244, 07:251, 07:259, 07:261-07:262	1			4											16																			
*07:03	1				5															20														
*07:04:01-07:04:08, 07:139, 07:142, 07:199:01-07:199:02	1					6									16	17																		
*07:05	1	2					7								16																			
*07:06	1	2	3					8													21													
*07:07	1	2							9											19													32	
*07:08	1								10						16																			
*07:09	1	2	3						9																									32
*07:10	1			4						11					16																			
*07:11	1					6							13		16	17																		
*07:12	1					6				12																								
*07:13	1			4										14	16																			
*07:14	1	2													15	16																		
*07:15	1			4											16		18																	
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		



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **38R**

Lot-specific information

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245			
PCR product(s)	425				245	145		505	425	240	300			460	290			230	355	195	225	250	185		150	300	250		260		260	285			
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			
*07:16	1	2																	19																
*07:17	1																			20															
*07:18	1	2	3																			21													
*07:19	1		3	4																		21													
*07:20	1	2	3																				22												
*07:21	1	2	3																					23											
*07:22	1	2	3																						24										
*07:23	1			4											16									23											
*07:24	1	2	3							11																									
*07:25, 07:138	1			4											16									24											
*07:26	1	2	3																19																
*07:27:01-07:27:02	1	2													16																				
*07:28	1	2	3											14																					
*07:29	1			4					9						16																				
*07:30	1	2	3																							25									
*07:31	1	2													16												26								
*07:32N	1			4											16												26								
*07:33N	1			4					9						16			19																	
*07:35	1	2	3																													28			
*07:36	1	2	3																														29		
*07:37	1			4											16																				
*07:38:01-07:38:02	1			4											16																				
*07:39	1			4											16																			31	
*07:40	1	2	3																															31	
*07:41	1											12																							
*07:42	1			4											16																			29	
*07:43	1	2								11					16																				
*07:44	1	2	3																																
*07:45	1							8							16																				
*07:46	1			4											16												25								
*07:47	1			4											16																				
*07:48	1			4											16																				
*07:49	1			4					9						16																				32
*07:50	1			4											15	16																			
*07:51	1			4											16																				
*07:52	1	2	3																																
*07:53	1	2	3		5																														
*07:54	1			4											16												21								
*07:55N	1	2	3																																
*07:56:01-07:56:02	1			4											13	16																			
*07:57	1		3		5																														
*07:58	1	2	3																																
*07:59	1	2	3																																
*07:60	1	2													13																			32	
*07:61N	1			4												16																			
*07:62	1			4												16																			
*07:63	1					6									16	17																			
*07:64	1			4											16																				
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			



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **38R**

Lot-specific information

Length of spec.	245	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245				
PCR product(s)	425					245	145		505	240		300				460	290			230	355	220		225	250	185		150	250		260			285			
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					
*07:65	1	2	3																																		
*07:66	1			4												16																					
*07:67	1			4												16																					
*07:68	1			4		6										16	17																				
*07:69	1	2	3																									27									
*07:70	1	2	3																																		
*07:71	1	2	3																																		
*07:72	1			4												16																					
*07:73	1	2	3																																		
*07:74	1			4												16																					
*07:75	1			4												16																30					
*07:76	1			4					9							16																			32		
*07:77	1	2	3																																		
*07:78, 07:235 ⁷	1	2	3																																		
*07:79	1			4									13			16																			32		
*07:80	1			4												16				19																	
*07:81	1	2	3																		20																
*07:82	1	2	3																																		
*07:83	1	2	3																																		
*07:84	1			4												16								22													
*07:85	1	2	3																																		
*07:86	1	2	3																																		
*07:87	1			4												16																					
*07:88	1			4												16																					
*07:89	1	2	3													15																					
*07:90	1			4												16																					
*07:91	1	2	3																																		
*07:92	1	2	3																		19																
*07:93, 07:207 ⁸	1	2	3																																		
*07:94	1	2	3																																		
*07:95	1	2	3																																		
*07:96	1	2	3																		19			22													
*07:97	1			4												16																					
*07:98N	1	2	3																																		
*07:99, 07:183 ⁹	1			4												16																					
*07:100, 07:161 ¹⁰	1			4												16																					
*07:101	1					6										16	17																				
*07:104N, 07:119, 07:124 ¹¹	1	2	3																																		
*07:106	1	2	3																																		
*07:107	1			4												16																					
*07:108	1		3																																		
*07:109	1	2								10																											
*07:112	1		3									11																									
*07:117, 07:126 ¹²	1			4												16																					
*07:118, 07:203 ¹³	1	2	3																																		
*07:120	1	2	3																																		
*07:121Q	1			4												16																					
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					

101.615-24/04 – including **Taq** pol., IFU-01
 101.615-24u/04u – without **Taq** pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 38R

Lot-specific information

																																																																Length of spec.																																																																
230	205	270	105	360	320	185	265	185	275	245	405	195	135	255	100	440	205	120	255	140	250	205	100	175	140	105	195	165	475	240	420	350	315	200	455	420	200	400	220	155	220	155	425	170	105	285	235	65	280	205	65	155	110	370	340	235	120	290	210	150	255	210	175	70	450	80	200	370	305	130	405	245	70	280	200	320	275	225	135			PCR product(s)																																														
																																																																Well No.																																																																
																																											38			44																																																																	*07:65																	
33																																																																	*07:66																																																															
34																																																																	*07:67																																																															
																																					37																																																																	*07:68																										
																																																															64																																																																	*07:69
34																																																																	*07:70																																																															
																																			35																																																																	*07:71																												
																																			35																																																																	*07:72																												
																																				36																																																																	*07:73																											
																																							39																																																																	*07:74																								
																																								40																																																																	*07:75																							
																																										40	42	44																																																																	*07:76																			
																																										40																																																																	*07:77																					
																																										40																																																																	*07:78, 07:235 ⁷																					
																																											43																																																																	*07:79																				
																																																																*07:80																																																																
																																																											59																																																																	*07:81				
33																																																																	*07:82																																																															
																																														46																																																																	*07:83																	
																																																														62																																																																	*07:84	
																																																48																																																																	*07:85															
																																															47																																																																	*07:86																
																																																48																																																																	*07:87															
																																									41																																																																	*07:88																						
																																																																*07:89																																																																
																																														46																																																																	*07:90																	
																																									41																																																																	*07:91																						
36																																																																	*07:92																																																															
																																										42																																																																	*07:93, 07:207 ⁸																					
																																											43																																																																	*07:94																				
																																													45																																																																	*07:95																		
36																																																																	*07:96																																																															
																																															47																																																																	*07:97																
																																												44																																																																	*07:98N																			
																																											43																																																																	*07:99, 07:183 ⁹																				
																																																	49																																																																	*07:100, 07:161 ¹⁰														
																																																	49																																																																	*07:101														
																																																		50																																																																	*07:104N, 07:119, 07:124 ¹¹													
																																																				52																																																																	*07:106											
35	36																																																																	*07:107																																																														
																																																																*07:108																																																																
																																																																*07:109																																																																
																																																																*07:112																																																																
																																																			51																																																																	*07:117, 07:126 ¹²												
																																																				52																																																																	*07:118, 07:203 ¹³											
																																																												61																																																																	*07:120			
																																					37																																																																	*07:121Q																										
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	Well No.																																																																																																



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 38R

Lot-specific information

Length of spec.	245	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245				
PCR product(s)						245			505	240		300				290			230	355	170		225	250	185		150	250		260		260		285			
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					
*07:122	1	2	3																																		
*07:123	1			4												16																					
*07:125	1			4												16																					
*07:127	1			4												16							22														
*07:129, 07:153 ¹⁴	1	2	3																																		
*07:130	1			4												16																					
*07:132, 07:179 ¹⁵	1	2	3																																		
*07:137:01	1			4												16							24														
*07:137:02, 07:186 ⁶	1			4												16																					
*07:140	1	2	3																		20																
*07:141:01-07:141:02	1	2	3																		20																
*07:143	1			4												16																					
*07:145	1			4												16																					
*07:147, 07:241 ¹⁶	1			4												16																					
*07:148	1	2	3																																		
*07:150Q	1	2	3																																		
*07:151	1	2	3																																		
*07:152N	1			4												16																					
*07:154	1			4												16																					
*07:155	1			4												16																					
*07:164N, 07:212 ¹⁷	1	2	3																																		
*07:165, 07:180 ¹⁸	1	2	3																																		
*07:168	1			4												16				20																	
*07:171, 07:242	1																																				
*07:172	1			4												16																					
*07:173	1	2	3																																		
*07:176	1	2	3																									27									
*07:177	1								9							16				19							26							31			
*07:181	1				6											16	17		19																		
*07:184	1	2							9	11						16																					
*07:191N	1	2	3																																		
*07:192	1			4												16																					
*07:196	1	2	3								11																										
*07:198N, 07:218 ⁶	1			4												16																					
*07:202	1			4												16																					
*07:205	1	2	3																																		
*07:210	1	2	3						9																										w	32	
*07:216	1			4	5											16																					
*07:224	1	2	3																																		
*07:227N, 07:254 ¹⁹	1	2	3																																30		
*07:238	1			4					9							16																			w	32	
*07:243	1			4												16		18																			
*07:245	1			4												16																					
*07:247	1	2	3						9																											32	
*07:248	1	2	3						9																												
*07:252	1			4												16																					
*07:258	1															16																					
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					



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **38R**

Lot-specific information

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245		
PCR product(s)	425				245	145		505	240		300				290			230	355	170		225	250	185		150	250		260		260		285	
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		
*07:260	1			4												16	17																	
*07:263	1	2	3																			22												
*01:60, 03:14, 12:14:01-12:14:02, 14:17, 17:01:01:01-17:04, 17:06-17:13, B*46:06																16																		
*02:14, 03:39, 03:67, 04:42, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:21, 06:04-06:06, 06:08-06:10, 06:12-06:16N, 06:18-06:21, 06:23-06:43, 06:45-06:51, 06:54-06:66, 06:68-06:69, 06:71-06:75, 06:78-06:87, 15:23, B*08:17, B*08:39, B*08:47																																		32
*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 15:25, A*01:110																						22												
*02:57, 04:40, B*38:23, B*39:73								8																										
*03:04:19, 03:113		2							9	11										20														
*03:69, 04:27, 04:52, 12:58													13																					
*03:162																16																		
*04:34, 04:122, B*35:178, B*73:01-73:02																																		
*04:58									10						16																			
*04:66																																30		
*04:112			3																															
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		



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **38R**

Lot-specific information

230		205		270		105		360		320		185		265		185		275		245		195		135		255		100		440		205		120		255		140		205		100		175		140		105		195		165		475		240		350		315		200		455		420		200		400		220		155		220		155		170		105		285		235		65		280		205		65		155		110		340		235		120		290		210		150		255		210		175		70		450		80		200		370		305		130		405		245		70		280		200		320		275		225		135		Length of spec.		PCR product(s)	
																																																																Well No.																																																																																									
																																				*07:260																																																																																																																					
																																				*07:263																																																																																																																					
																																				*01:60, 03:14, 12:14:01-12:14:02, 14:17, 17:01:01:01-17:04, 17:06-17:13, B*46:06																																																																																																																					
																																				*02:14, 03:39, 03:67, 04:42, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:21, 06:04-06:06, 06:08-06:10, 06:12-06:16N, 06:18-06:21, 06:23-06:43, 06:45-06:51, 06:54-06:66, 06:68-06:69, 06:71-06:75, 06:78-06:87, 15:23, B*08:17, B*08:39, B*08:47																																																																																																																					
																																				*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 15:25, A*01:110																																																																																																																					
																																				*02:57, 04:40, B*38:23, B*39:73																																																																																																																					
																																																										60		*03:04:19, 03:113																																																																																													
																																																												*03:69, 04:27, 04:52, 12:58																																																																																													
																																																										58		*03:162																																																																																													
																																												45		*04:34, 04:122, B*35:178, B*73:01-73:02																																																																																																											
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																																																																Well No.																																																																																									

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **38R**

Lot-specific information

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245			
PCR product(s)	425				245	145		505	240		300				290				230	355	220	225	250	185		150	250			260		285			
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			
*04:120, 05:01:01:01-05:01:16, 05:01:18-05:01:21, 05:04:01-05:08, 05:10-05:16, 05:18:01-05:22:02, 05:24-05:41, 05:44:01-05:45, 05:47-05:48N, 05:50-05:51Q, 05:53-05:61, 05:63-05:81, 08:01:01-08:04:02, 08:06, 08:08-08:14, 08:16:01-08:20, 08:22-08:37, 08:39-08:46, 08:48-08:50, 08:52N-08:63, 08:33:03, A*29:10, B*14:32												12																							
*05:01:17		2										12	14							20														27	
*05:03												12							18																
*05:09:02, 08:15:02		2												14						20														27	
*05:17		2												14						20															
*05:23, 08:07, 08:47																16	17																		
*05:42, 05:46, 08:05, 08:21												12																							
*05:43												12																						32	
*05:62						6										16	17																		
*06:07																																			32
*06:17, 18:01-18:03									9																										32
*06:22																																			32
*06:44			3																																32
*06:53:01													13																						32
*06:67																																			32
*06:70																						22													32
*08:38												12																							
*12:03:10		2																			20			24		26									
*16:31, B*15:193																																			
*17:05																16																			
*18:04									9																										32
*18:05			3						9																										32
A*30:01:03																					20														
A*33:03:09																					20			24											
A*68:01:12																								24											
B*07:77																									18										
B*07:87, B*27:55																																			
B*27:36, B*48:21, B*48:26								7																											
B*35:08:04		2									11										20														27
B*37:04:02											11			14								20													
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			



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **38R**

Lot-specific information

230	205	270	105	360	320	185	265	185	275	245	405	195	135	255	100	440	205	120	255	140	250	205	100	175	140	105	195	165	475	240	420	350	315	200	455	420	200	400	220	155	220	155	425	170	105	285	235	65	280	205	65	155	110	370	340	235	120	290	210	150	255	210	175	70	450	80	200	370	305	130	405	245	70	280	200	320	275	225	135	Length of spec.
																																PCR product(s)																																																
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	Well No.																																																
																																*04:120, 05:01:01:01-05:01:16, 05:01:18-05:01:21, 05:04:01-05:08, 05:10-05:16, 05:18:01-05:22:02, 05:24-05:41, 05:44:01-05:45, 05:47-05:48N, 05:50-05:51Q, 05:53-05:61, 05:63-05:81, 08:01:01-08:04:02, 08:06, 08:08-08:14, 08:16:01-08:20, 08:22-08:37, 08:39-08:46, 08:48-08:50, 08:52N-08:63, 08:33:03, A*29:10, B*14:32																																																
																																*05:01:17																																																
																																*05:03																																																
																																*05:09:02, 08:15:02																																																
																																*05:17																																																
																																*05:23, 08:07, 08:47																																																
																																*05:42, 05:46, 08:05, 08:21																																																
																																*05:43																																																
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																																*06:17, 18:01-18:03																																																
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																																*08:38																																																
																																*12:03:10																																																
																																*16:31, B*15:193																																																
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																																B*27:36, B*48:21, B*48:26																																																
																																B*35:08:04																																																
																																B*37:04:02																																																



101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **38R**

Lot-specific information

Length of spec.	425	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245		
PCR product(s)						245	145		505	240		300				290				230	355	220		225	250	185		150	250			260		285	
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			
<i>B*40:60</i>				4															18																
<i>B*40:100</i>										10																									
<i>B*44:148</i>						6						12																							
<i>B*56:08</i>																									w										
<i>B*56:14</i>																										25									
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			

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-C*07 subtyping.

In addition, wells number 2, 3, 5, 9, 11, 14, 18, 19, 21, 22, 28, 39, 43, 49, 57 and 63 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

²The nucleotide position, in the 1st, 2nd, 3rd, 4th, 5th or 7th exon or the 3rd or 5th intron, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd, 3rd, 4th, 6th or 7th exon or the 3rd 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.

⁴The HLA-Cw*0734 allele has been renamed to HLA-C*07:27:02.

⁵HLA-C*07 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.9.0, July 2012.

⁶This lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:137:02 and C*07:186 alleles, or the C*07:198N and the C*07:218 alleles.

⁷The C*07:78 and 07:235 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 40.

⁸The C*07:93 and 07:207 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 42.

⁹The C*07:99 and 07:183 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 43.

¹⁰The C*07:100 and 07:161 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 49.

¹¹The C*07:104N, 07:119 and 07:124 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 50.

¹²The C*07:117 and 07:126 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 51.

¹³The C*07:118 and 07:203 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 52.

¹⁴The C*07:129 and 07:153 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 54.

¹⁵The C*07:132 and 07:179 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 55.

¹⁶The C*07:147 and 07:241 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

¹⁷The C*07:164N and 07:212 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 58.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 38R**Lot-specific information**

Primer mix 25: Specific PCR fragment of 105 bp in the C*07:46 and B*56:06^w and B*56:14 alleles. Specific PCR fragment of 150 bp in the C*07:30 allele.

Primer mix 26: Specific PCR fragment of 100 bp in the C*07:32N allele. Specific PCR fragment of 250 bp in the C*07:55N allele. Specific PCR fragment of 300 bp in the C*07:31 and 07:177 and the C*12:03:10 alleles.

Primer mix 28: Specific PCR fragment of 175 bp in the C*07:44 allele. Specific PCR fragment of 260 bp in the C*07:35 and 07:47 alleles.

Primer mix 30: Specific PCR fragment of 60 bp in the C*07:75 and 07:254 alleles. Specific PCR fragment of 260 bp in the C*07:227N and the C*04:66 alleles.

Primer mix 32: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49, 07:76, 07:210, 07:238 and 07:247 and the C*02:14, 04:42, 05:43, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:21, 06:04-06:10, 06:12-06:51, 06:53:01-06:75, 06:78-06:87, 15:23 and 18:01-18:05 and in the B*08:17, B*08:47 alleles. Specific PCR fragment of 285 bp in the C*07:60 and 07:79 and the C*03:39 and 03:67 and the B*08:39 alleles.

Primer mix 33: Specific PCR fragment of 205 bp in the C*07:66 allele. Specific PCR fragment of 230 bp in the C*07:82 allele.

Primer mix 34: Specific PCR fragment of 105 bp in the C*07:67 allele. Specific PCR fragment of 270 bp in the C*07:70 allele.

Primer mix 35: Specific PCR fragment of 185 bp in the C*07:107 and 07:224 and the C*06:22 and 16:31 and the B*15:193 alleles. Specific PCR fragment of 320 bp in the C*07:72 allele. Specific PCR fragment of 360 bp in the C*07:71 allele.

Primer mix 36: Specific PCR fragment of 185 bp in the C*07:107 and 07:224 and in the C*06:22 and 16:31 and the B*15:193 alleles. Specific PCR fragment of 265 bp in the C*07:20, 07:64, 07:73, 07:92, 07:96:01 and 07:172 and the C*18:04 alleles.

Primer mix 37: Specific PCR fragment of 245 bp in the C*07:63 and 07:121Q alleles. Specific PCR fragment of 275 bp in the C*07:38:01-07:38:02, 07:68 and 07:260 and the C*08:38 and the B*07:77 and B*40:60 alleles.

Primer mix 38: Specific PCR fragment of 135 bp in the C*07:58 allele. Specific PCR fragment of 195 bp in the C*07:65 allele. Specific PCR fragment of 405 bp in the C*07:61N allele.

Primer mix 39: Specific PCR fragment of 100 bp in the C*07:74 allele. Specific PCR fragment of 255 bp in the C*07:59 allele.

Primer mix 40: Specific PCR fragment of 120 bp in the C*07:235 allele. Specific PCR fragment of 205 bp in the C*07:62 allele. Specific PCR fragment of 440 bp in the C*07:07, 07:09, 07:76 and 07:78 and in the C*06:17 and 18:01-18:05 alleles.

Primer mix 41: Specific PCR fragment of 140 bp in the C*07:91 allele. Specific PCR fragment of 255 bp in the C*07:88 allele.

Primer mix 42: Specific PCR fragment of 100 bp in the C*07:15 and 07:207 alleles. Specific PCR fragment of 205 bp in the C*07:77 and 07:93 alleles. Specific PCR fragment of 250 bp in the C*07:123 and 07:173 and the B*35:08:04 alleles.

Primer mix 43: Specific PCR fragment of 105 bp in the C*07:94 and 07:183 alleles. Specific PCR fragment of 140 bp in the C*07:99 allele. Specific PCR fragment of 175 bp in the C*07:80 allele.

Primer mix 44: Specific PCR fragment of 165 bp in the C*07:98N allele. Specific PCR fragment of 195 bp in the C*07:65 and 07:77 alleles.

Primer mix 45: Specific PCR fragment of 240 bp in the C*07:245 allele. Specific PCR fragment of 475 bp in the C*07:95 and the C*04:34 and 04:122 and in the B*35:178 and B*73:01-73:02 alleles.

Primer mix 46: Specific PCR fragment of 200 bp in the C*07:83 allele. Specific PCR fragment of 315 bp in the C*07:202 allele. Specific PCR fragment of 350 bp in the C*07:90 allele. Specific PCR fragment of 420 bp in the C*07:152N allele.

Primer mix 47: Specific PCR fragment of 200 bp in the C*07:86 allele. Specific PCR fragment of 420 bp in the C*07:152N allele. Specific PCR fragment of 455 bp in the C*07:97 allele.

Primer mix 48: Specific PCR fragment of 155 bp in the C*07:122 allele. Specific PCR fragment of 220 bp in the C*07:87 allele. Specific PCR fragment of 400 bp in the C*07:85 allele.

Primer mix 49: Specific PCR fragment of 155 bp in the C*07:101, 07:148 and 07:161 and the C*05:42, 05:46, 06:67, 08:05, 08:21 and 17:05 alleles. Specific PCR fragment of 220 bp in the C*07:100 allele.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 38R**Lot-specific information**

Primer mix 50: Specific PCR fragment of 105 bp in the C*07:104N allele. Specific PCR fragment of 170 bp in the C*07:119 and in the B*07:87 and B*27:55 alleles. Specific PCR fragment of 425 bp in the C*07:124 and 07:155 alleles.

Primer mix 51: Specific PCR fragment of 65 bp in the C*07:126 allele. Specific PCR fragment of 235 bp in the C*07:121Q allele. Specific PCR fragment of 285 bp in the C*07:117 allele.

Primer mix 52: Specific PCR fragment of 65 bp in the C*07:203 allele. Specific PCR fragment of 205 bp in the C*07:118 allele. Specific PCR fragment of 280 bp in the C*07:106 allele.

Primer mix 53: Specific PCR fragment of 110 bp in the C*07:140, 07:151 and 07:154 and in the B*37:04:02 alleles. Specific PCR fragment of 155 bp in the C*07:122 allele.

Primer mix 54: Specific PCR fragment of 120 bp in the C*07:153 allele. Specific PCR fragment of 235 bp in the C*07:64 allele. Specific PCR fragment of 340 bp in the C*07:125 allele. Specific PCR fragment of 370 bp in the C*07:129 allele.

Primer mix 55: Specific PCR fragment of 150 bp in the C*07:179 and the C*06:07 alleles. Specific PCR fragment of 210 bp in the C*07:252 allele. Specific PCR fragment of 290 bp in the C*07:132 allele.

Primer mix 56: Specific PCR fragment of 210 bp in the C*07:150Q allele. Specific PCR fragment of 255 bp in the C*07:123, 07:143 and 07:173 and the B*35:08:04 alleles.

Primer mix 57: Specific PCR fragment of 70 bp in the C*07:01:25 allele. Specific PCR fragment of 175 bp in the C*07:130 and the C*05:01:17, 05:09:02, 05:17 and 08:15:02 alleles.

Primer mix 58: Specific PCR fragment of 80 bp in the C*07:137:01-07:137:02, 07:186 and 07:212 and the C*03:162 alleles. Specific PCR fragment of 450 bp in the C*07:164N allele.

Primer mix 60: Specific PCR fragment of 130 bp in the C*07:165 and 07:241 and the C*03:04:19, 03:113, 05:01:17, 05:09:02, 08:15:02 and 12:03:10 alleles. Specific PCR fragment of 305 bp in the C*07:147 allele. Specific PCR fragment of 370 bp in the C*07:180 allele.

Primer mix 62: Specific PCR fragment of 200 bp in the C*07:84 and 07:205 alleles. Specific PCR fragment of 280 bp in the C*07:106 allele.

Primer mix 63: Specific PCR fragment of 275 bp in the C*07:24 and 07:218 alleles. Specific PCR fragment of 320 bp in the C*07:198N and 07:202 alleles.

Primer mix 64: Specific PCR fragment of 135 bp in the C*07:69 allele. Specific PCR fragment of 225 bp in the C*07:192 allele.

'w', may be weakly amplified.

101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **38R**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-C*07 SSP subtyping kit																			
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			Prod. No.:	201069801	201189502	201189503	201069804	201208105	201069806	201069807	201069808	201069809	201069810	201200511	201069812	201069813	201208114	201208115	201208116
	IHWK cell line	C*																	
1	9001 SA	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
2	9280 LK707	*07:01	*15:05	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-	+
19	9038 BM16	*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
26	9285 WT49	*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
47	9045 TUBO	*07:04	*15:02	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **38R**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-C*07 SSP subtyping kit																			
				Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
			Prod. No.:	201069817	201208118	201208119	201208120	201069821	201069822	201208123	201189524	201069825	201069826	201208127	201189528	201189529	201208130	201200531	201069832
	IHWK cell line	C*																	
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **38R**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-C*07 SSP subtyping kit																			
				Well															
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
			Prod. No.:	201189533	201208134	201208135	201208136	201208137	201208138	201069839	201208140	201069841	201208142	201208143	201208144	201208145	201200546	201200547	201208148
	IHWK cell line	C*																	
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
			Prod. No.:	201200549	201200550	201208151	201208152	201208153	201208154	201208155	201208156	201208157	201208158	201208159	201208160	201208161	201208162	201208163	201208164	
	IHWC cell line	C*																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **38R**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-C*07 SSP

Product number: 101.615-24/04 – including *Taq* pol.
 101.615-24u/04u – without *Taq* pol.
Lot number: 38R
Expiry date: 2015-June-01
Number of tests: 24 tests – Product No. 101.615-24/24u
 4 tests – Product No. 101.615-04/04u
Number of wells per test: 64

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-698-01	25	2010-698-25	49	2012-005-49
2	2011-895-02	26	2010-698-26	50	2012-005-50
3	2011-895-03	27	2012-081-27	51	2012-081-51
4	2010-698-04	28	2011-895-28	52	2012-081-52
5	2012-081-05	29	2011-895-29	53	2012-081-53
6	2010-698-06	30	2012-081-30	54	2012-081-54
7	2010-698-07	31	2012-005-31	55	2012-081-55
8	2010-698-08	32	2010-698-32	56	2012-081-56
9	2010-698-09	33	2011-895-33	57	2012-081-57
10	2010-698-10	34	2012-081-34	58	2012-081-58
11	2012-005-11	35	2012-081-35	59	2012-081-59
12	2010-698-12	36	2012-08136	60	2012-081-60
13	2010-698-13	37	2012-081-37	61	2012-081-61
14	2012-081-14	38	2012-081-38	62	2012-081-62
15	2012-081-15	39	2010-698-39	63	2012-081-63
16	2012-081-16	40	2012-081-40	64	2012-081-64
17	2010-698-17	41	2010-698-41		
18	2012-081-18	42	2012-081-42		
19	2012-081-19	43	2012-081-43		
20	2012-081-20	44	2012-081-44		
21	2010-698-21	45	2012-081-45		
22	2010-698-22	46	2012-005-46		
23	2012-081-23	47	2012-005-47		
24	2011-895-24	48	2012-081-48		

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

No DNAs carrying the alleles to be amplified by primer solutions 5, 10, 11, 13 to 15, 18, 19, 23 to 31, 34 to 36, 38, 39, 41 to 44 and 46 to 64 were available.

The specificities of the primers in primer solutions 5, 10, 11, 13 to 15, 18, 19, 24 to 27, 31, 36, 38, 42 to 44, 46 to 50, 53, 54, 56 to 60, 63 and 64 were tested by separately adding one 5'-primer, respectively one 3'-primer.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: 38R

Lot-specific information

In primer solutions 35, 51 and 61 it was only possible to test the 5'-primer, the 3'-primer were not possible to test.

In primer solutions 23, 28 to 30, 34, 39, 41, 52, 55 and 62 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 8, 11, 20, 22, 26, 33, 38, 42, 44, 46 to 49, 53, 56, 57, 59 and 63 one or two 5'-primers were not possible to test, and in primer solutions 5, 9, 13, 15, 18, 19, 21, 25, 32, 36, 38, 40, 43, 46 to 48, 50, 54, 58, 60, 63 and 64 one or two 3'-primers were not possible to test.

Additional primers in primer solutions 2, 8, 9, 18, 20, 21, 33, 37, 40 and 45 were tested by separately adding either one 5'-primer or one 3'-primer.

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

Date of approval: 2012-December-12

Approved by:

Production Quality Control

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **38R**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-C*07
Product number: 101.615-24/24u, -04/04u
Lot number: 38R

Intended use: HLA-C*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 III, 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.

Stockholm, Sweden
2012-December-12

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **38R**

Lot-specific information

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **38R**

Lot-specific information

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