

101.622-12 – including *Taq* pol., IFU-01
101.622-12u – without *Taq* pol., IFU-02

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

Lot No.: **95R**

Lot-specific information
Olerup SSP[®] HLA-C*02

Product number:	101.622-12 – including <i>Taq</i> polymerase 101.622-12u –without <i>Taq</i> polymerase
Lot number:	95R
Expiry date:	2015-August-01
Number of tests:	12
Number of wells per test:	32
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. 95R.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®]
HLA-C*02 Lot (77N)**

The HLA-C*02 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP[®]* HLA-C*02 lot was made (Lot No. 77N).

The HLA-C*02 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*02 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

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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
28	-	-	Exchanged positive control primer pair.
30	-	Added	3'-primer added for the A*02:58 allele.

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PRODUCT DESCRIPTION

HLA-C*02 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the C*02:02 to C*02:66 alleles.

PLATE LAYOUT

Each HLA-C*02 test consists of 32 PCR reactions in a 32 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

The 32 well PCR plate is marked with 'HLA-C*02' in silver/gray ink.

Well No. 1 is marked with the Lot No. '95R'.

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.

Please note: When removing each 32 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

The interpretation of HLA-C*02 SSP subtypings will be influenced by six C*01 alleles, twelve C*03, seventeen C*04, the C*05, the C*06, six C*07, most C*08, most C*12, six C*14, the C*15, several C*16, the C*17 and the C*18 alleles when present on the other haplotype.

In addition, primer mix 3 will amplify the B*27:34, B*40:02:07 and B*40:06:02 and weakly the B*35:01:30 and B*57:03:02 alleles, primer mix 5 will amplify the B*07:02:07 and B*27:05:15 alleles, primer mix 12 will amplify the B*27:84 allele, primer mix 16 will amplify the B*58:02 allele, primer mix 19 will amplify the B*27:34, B*40:02:07 and B*40:06:02, and weakly the B*35:01:30 and B*57:03:02 allele, primer mix 20 will amplify the B*07:113, B*08:64 and B*40:192 alleles, primer mix 25 will amplify the B*07:55, B*07:100, B*15:45, B*15:63 alleles and B*15:248, primer mix 30 will amplify the B*58:02 and primer mix 31 will amplify the B*67:02 allele.

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*02 alleles, i.e. **C*02:02 to C*02:66**, recognized by the HLA Nomenclature Committee in October 2012¹ will be amplified by the primers in the HLA-C*02 SSP kit.

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The HLA-C*02 kit enables separation of the confirmed HLA-C*02 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*02 alleles is listed below.

The HLA-C*02 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 HLA-C*02 primer set cannot distinguish the following silent mutations: the C*02:02:01-02:02:03, 02:02:06-02:02:12 and 02:02:15-02:02:25 alleles, the C*02:02:05 and 02:02:14 alleles or the C*02:26:01-02:26:03 alleles.

The C*02:15 and 02:21 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 15.

The C*02:25Q and 02:30 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

The C*02:37 and 02:52N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 28.

¹HLA-C alleles listed on the IMGT/HLA web page 2012-October-14, release 3.10.0, 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*02:02:01	Unconfirmed	C*02:09	Unconfirmed	C*02:35	Unconfirmed	C*02:66	Unconfirmed
C*02:02:02	Confirmed	C*02:10	Confirmed	C*02:36	Unconfirmed		
C*02:02:03	Confirmed	C*02:11	Unconfirmed	C*02:37	Confirmed		
C*02:02:05	Unconfirmed	C*02:12	Unconfirmed	C*02:38N	Confirmed		
C*02:02:06	Unconfirmed	C*02:13	Confirmed	C*02:39	Unconfirmed		
C*02:02:07	Confirmed	C*02:14	Confirmed	C*02:40	Confirmed		
C*02:02:08	Confirmed	C*02:15	Unconfirmed	C*02:42	Unconfirmed		
C*02:02:09	Confirmed	C*02:16:01	Unconfirmed	C*02:43	Unconfirmed		
C*02:02:10	Unconfirmed	C*02:16:02	Confirmed	C*02:44	Unconfirmed		
C*02:02:11	Unconfirmed	C*02:17	Confirmed	C*02:45	Unconfirmed		
C*02:02:12	Unconfirmed	C*02:18	Confirmed	C*02:46	Confirmed		
C*02:02:13	Unconfirmed	C*02:19	Confirmed	C*02:47	Unconfirmed		
C*02:02:14	Unconfirmed	C*02:20	Unconfirmed	C*02:48	Unconfirmed		
C*02:02:15	Unconfirmed	C*02:21	Unconfirmed	C*02:49	Unconfirmed		
C*02:02:16	Confirmed	C*02:22	Unconfirmed	C*02:50	Unconfirmed		
C*02:02:17	Unconfirmed	C*02:23	Unconfirmed	C*02:51	Unconfirmed		
C*02:02:18	Unconfirmed	C*02:24	Confirmed	C*02:52N	Unconfirmed		
C*02:02:19	Unconfirmed	C*02:25Q	Confirmed	C*02:53	Confirmed		
C*02:02:20	Unconfirmed	C*02:26:01	Confirmed	C*02:54	Unconfirmed		
C*02:02:21	Unconfirmed	C*02:26:02	Unconfirmed	C*02:55	Unconfirmed		
C*02:02:22	Unconfirmed	C*02:26:03	Unconfirmed	C*02:56	Unconfirmed		
C*02:02:23	Unconfirmed	C*02:27:01	Confirmed	C*02:57	Unconfirmed		
C*02:02:24	Confirmed	C*02:27:02	Confirmed	C*02:58	Unconfirmed		
C*02:02:25	Unconfirmed	C*02:28	Unconfirmed	C*02:59	Unconfirmed		
C*02:03	Unconfirmed	C*02:29	Unconfirmed	C*02:60	Unconfirmed		
C*02:04	Unconfirmed	C*02:30	Confirmed	C*02:61	Unconfirmed		
C*02:05	Unconfirmed	C*02:31	Confirmed	C*02:62	Unconfirmed		
C*02:06	Confirmed	C*02:32	Confirmed	C*02:63	Unconfirmed		
C*02:07	Confirmed	C*02:33	Unconfirmed	C*02:64	Unconfirmed		
C*02:08	Unconfirmed	C*02:34	Confirmed	C*02:65	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-October-14, release 3.10.0, www.ebi.ac.uk/imgt/hla.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 92 alleles generate 50 amplification patterns that can be combined in 1275 homozygous and heterozygous combinations. 837 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.

```

+----- +----- ----- -----+-- *02:10, *02:58 = *02:58, *02:58
+----- -++----- ----- ----- *02:10, *02:14 = *02:14, *02:14
+----- ++----- ----- ----- *02:02:05, *02:02:05 = *02:02:05, *02:02:13 = *02:02:05, *02:10 = *02:02:13,
*02:10
--+----- ++-----+ ----- ----- *02:16:01, *02:16:02 = *02:16:02, *02:16:02
+----- ++----- ----- -----+-- *02:02:05, *02:58 = *02:02:13, *02:58
+----- ++-----+ ----- ----- *02:02:05, *02:16:01 = *02:02:13, *02:16:01 = *02:10, *02:16:01
+----- +-----+----- ----- ----- *02:02:05, *02:27:02 = *02:02:13, *02:27:02 = *02:10, *02:27:02 = *02:27:02,
*02:27:02
+----- ++-----+----- ----- ----- *02:02:05, *02:14 = *02:02:13, *02:14
+----- +++----- ----- ----- *02:02:05, *02:32 = *02:02:13, *02:32 = *02:10, *02:32
+-----+ ++----- ----- ----- *02:02:05, *02:33 = *02:02:13, *02:33 = *02:10, *02:33 = *02:33, *02:33
+-----+ ++----- ----- ----- *02:02:05, *02:05 = *02:02:13, *02:05 = *02:05, *02:05 = *02:05, *02:10
++----- -+----- ----- -----+-- *02:10, *02:29 = *02:29, *02:29
++----- +-----+----- ----- -----+-- *02:02:13, *02:45 = *02:45, *02:45
+----- +-----+----- ----- -----+-- *02:02:13, *02:39 = *02:39, *02:39
++----- +-----+----- ----- ----- *02:02:13, *02:26:01 = *02:26:01, *02:26:01
++----- ++-----+----- ----- ----- *02:02:01, *02:02:01 = *02:02:01, *02:02:05 = *02:02:01, *02:02:13 =
*02:02:01, *02:10
--+----- ++-----+ --+----- ----- *02:03, *02:03 = *02:03, *02:16:01 = *02:03, *02:16:02
--+----- +++-----+ ----- ----- *02:16:01, *02:18 = *02:16:02, *02:18 = *02:16:02, *02:32 = *02:18, *02:18 =
*02:18, *02:32
+----- ++-----+----- ----- -----+-- *02:02:05, *02:12 = *02:02:13, *02:12 = *02:10, *02:12 = *02:12, *02:12 =
*02:12, *02:27:02
+-----+-- ++-----+----- -----+-- *02:02:05, *02:06 = *02:02:13, *02:06 = *02:06, *02:06 = *02:06, *02:10
+-----+-- ++-----+----- ----- ----- *02:02:05, *02:17 = *02:02:13, *02:17 = *02:05, *02:14 = *02:05, *02:17 =
*02:10, *02:17 = *02:14, *02:17 = *02:17, *02:17
+-+----- ++-----+ ----- ----- *02:02:05, *02:16:02 = *02:02:13, *02:16:02 = *02:10, *02:16:02
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:53 = *02:02:05, *02:53 = *02:02:13, *02:53 = *02:10, *02:53 =
*02:53, *02:53
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:42 = *02:02:05, *02:42 = *02:02:13, *02:42 = *02:10, *02:42 =
*02:42, *02:42
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:38N = *02:02:01, *02:58 = *02:02:05, *02:38N = *02:02:13,
*02:38N = *02:10, *02:38N = *02:38N, *02:38N = *02:38N, *02:58
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:49 = *02:02:05, *02:49 = *02:02:13, *02:49 = *02:10, *02:49 =
*02:49, *02:49
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:37 = *02:02:05, *02:37 = *02:02:13, *02:37 = *02:10, *02:37 =
*02:37, *02:37
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:44 = *02:02:01, *02:45 = *02:02:05, *02:44 = *02:02:05, *02:45
= *02:02:13, *02:44 = *02:10, *02:44 = *02:10, *02:45 = *02:44, *02:44 =
*02:44, *02:45
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:39 = *02:02:01, *02:40 = *02:02:05, *02:39 = *02:02:05, *02:40
= *02:02:13, *02:40 = *02:10, *02:39 = *02:10, *02:40 = *02:39, *02:40 =
*02:40, *02:40
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:19 = *02:02:05, *02:19 = *02:02:13, *02:19 = *02:10, *02:19 =
*02:19, *02:19
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:36 = *02:02:05, *02:36 = *02:02:13, *02:36 = *02:10, *02:36 =
*02:36, *02:36
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:29 = *02:02:01, *02:35 = *02:02:05, *02:29 = *02:02:05, *02:35
= *02:02:13, *02:29 = *02:02:13, *02:35 = *02:10, *02:35 = *02:29, *02:35 =
*02:35, *02:35
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:34 = *02:02:05, *02:34 = *02:02:13, *02:34 = *02:10, *02:34 =
*02:34, *02:34
++-----+ ++-----+----- ----- -----+-- *02:02:01, *02:25Q = *02:02:05, *02:25Q = *02:02:13, *02:25Q = *02:10,
*02:25Q = *02:25Q, *02:25Q

```



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++-----	++-----	-----	-----	*02:02:01, *02:24 = *02:02:05, *02:24 = *02:02:13, *02:24 = *02:10, *02:24 = *02:24, *02:24
++-----	++-----	-----	-----	*02:02:01, *02:28 = *02:02:05, *02:28 = *02:02:13, *02:28 = *02:10, *02:28 = *02:28, *02:28
++-----	++-----	-----	-----	*02:02:01, *02:26:01 = *02:02:05, *02:26:01 = *02:10, *02:26:01
++-----	++-----	-----	-----	*02:02:01, *02:15 = *02:02:05, *02:15 = *02:02:13, *02:15 = *02:10, *02:15 = *02:15, *02:15
++-----	++-----	-----	-----	*02:02:01, *02:13 = *02:02:05, *02:13 = *02:02:13, *02:13 = *02:10, *02:13 = *02:13, *02:13
++-----	++-----	-----	-----	*02:02:01, *02:27:01 = *02:02:01, *02:27:02 = *02:02:05, *02:27:01 = *02:02:13, *02:27:01 = *02:10, *02:27:01 = *02:27:01, *02:27:01 = *02:27:01, *02:27:02
++-----	++-----	-----	-----	*02:02:01, *02:11 = *02:02:01, *02:14 = *02:02:05, *02:11 = *02:02:13, *02:11 = *02:10, *02:11 = *02:11, *02:11 = *02:11, *02:14
++-----	++-----	-----	-----	*02:02:01, *02:09 = *02:02:01, *02:32 = *02:02:05, *02:09 = *02:02:13, *02:09 = *02:09, *02:09 = *02:09, *02:10 = *02:09, *02:32
++-----	++-----	-----	-----	*02:02:01, *02:08 = *02:02:01, *02:33 = *02:02:05, *02:08 = *02:02:13, *02:08 = *02:08, *02:08 = *02:08, *02:10 = *02:08, *02:33
++-----	++-----	-----	-----	*02:02:01, *02:07 = *02:02:05, *02:07 = *02:02:13, *02:07 = *02:07, *02:07 = *02:07, *02:10
++-----	++-----	-----	-----	*02:02:01, *02:47 = *02:02:05, *02:47 = *02:02:13, *02:47 = *02:10, *02:47 = *02:47, *02:47
++-----	++-----	-----	-----	*02:02:01, *02:05 = *02:02:01, *02:22 = *02:02:05, *02:22 = *02:02:13, *02:22 = *02:05, *02:22 = *02:10, *02:22 = *02:22, *02:22
++-----	++-----	-----	-----	*02:02:01, *02:04 = *02:02:05, *02:04 = *02:02:13, *02:04 = *02:04, *02:04 = *02:04, *02:10
++-----	++-----	-----	-----	*02:02:01, *02:20 = *02:02:05, *02:20 = *02:02:13, *02:20 = *02:10, *02:20 = *02:20, *02:20
++-----	++-----	-----	-----	*02:03, *02:18 = *02:03, *02:32
++-----	++-----	-----	-----	*02:02:05, *02:03 = *02:02:13, *02:03 = *02:03, *02:10
++-----	++-----	-----	-----	*02:02:05, *02:18 = *02:02:13, *02:18 = *02:10, *02:18
++-----	++-----	-----	-----	*02:38N, *02:53 = *02:53, *02:58
++-----	++-----	-----	-----	*02:38N, *02:42 = *02:42, *02:58
++-----	++-----	-----	-----	*02:38N, *02:49 = *02:49, *02:58
++-----	++-----	-----	-----	*02:37, *02:38N = *02:37, *02:58
++-----	++-----	-----	-----	*02:44, *02:53 = *02:45, *02:53
++-----	++-----	-----	-----	*02:42, *02:44 = *02:42, *02:45
++-----	++-----	-----	-----	*02:38N, *02:44 = *02:38N, *02:45 = *02:44, *02:58 = *02:45, *02:58
++-----	++-----	-----	-----	*02:44, *02:49 = *02:45, *02:49
++-----	++-----	-----	-----	*02:37, *02:44 = *02:37, *02:45
++-----	++-----	-----	-----	*02:39, *02:53 = *02:40, *02:53
++-----	++-----	-----	-----	*02:39, *02:42 = *02:40, *02:42
++-----	++-----	-----	-----	*02:38N, *02:39 = *02:38N, *02:40 = *02:39, *02:58 = *02:40, *02:58
++-----	++-----	-----	-----	*02:39, *02:49 = *02:40, *02:49
++-----	++-----	-----	-----	*02:37, *02:39 = *02:37, *02:40
++-----	++-----	-----	-----	*02:39, *02:44 = *02:40, *02:44 = *02:40, *02:45
++-----	++-----	-----	-----	*02:19, *02:38N = *02:19, *02:58
++-----	++-----	-----	-----	*02:19, *02:44 = *02:19, *02:45
++-----	++-----	-----	-----	*02:19, *02:39 = *02:19, *02:40
++-----	++-----	-----	-----	*02:36, *02:38N = *02:36, *02:58
++-----	++-----	-----	-----	*02:36, *02:44 = *02:36, *02:45
++-----	++-----	-----	-----	*02:36, *02:39 = *02:36, *02:40
++-----	++-----	-----	-----	*02:29, *02:53 = *02:35, *02:53
++-----	++-----	-----	-----	*02:29, *02:42 = *02:35, *02:42
++-----	++-----	-----	-----	*02:29, *02:38N = *02:35, *02:38N = *02:35, *02:58
++-----	++-----	-----	-----	*02:29, *02:49 = *02:35, *02:49
++-----	++-----	-----	-----	*02:29, *02:37 = *02:35, *02:37
++-----	++-----	-----	-----	*02:29, *02:44 = *02:29, *02:45 = *02:35, *02:44 = *02:35, *02:45
++-----	++-----	-----	-----	*02:29, *02:39 = *02:29, *02:40 = *02:35, *02:39 = *02:35, *02:40
++-----	++-----	-----	-----	*02:19, *02:29 = *02:19, *02:35
++-----	++-----	-----	-----	*02:29, *02:36 = *02:35, *02:36
++-----	++-----	-----	-----	*02:34, *02:38N = *02:34, *02:58
++-----	++-----	-----	-----	*02:34, *02:44 = *02:34, *02:45



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++-----	++-----	-----+	-----	*02:34, *02:39 = *02:34, *02:40
++-----	++-----	-----+	-----	*02:29, *02:34 = *02:34, *02:35
++-----	++-----	-----+	-----	*02:25Q, *02:38N = *02:25Q, *02:58
++-----	++-----	-----+	-----	*02:25Q, *02:44 = *02:25Q, *02:45
++-----	++-----	-----+	-----	*02:25Q, *02:39 = *02:25Q, *02:40
++-----	++-----	-----+	-----	*02:25Q, *02:29 = *02:25Q, *02:35
++-----	++-----	-----+	-----	*02:24, *02:38N = *02:24, *02:58
++-----	++-----	-----+	-----	*02:24, *02:44 = *02:24, *02:45
++-----	++-----	-----+	-----	*02:24, *02:39 = *02:24, *02:40
++-----	++-----	-----+	-----	*02:24, *02:29 = *02:24, *02:35
++-----	++-----	-----+	-----	*02:28, *02:38N = *02:28, *02:58
++-----	++-----	-----+	-----	*02:28, *02:44 = *02:28, *02:45
++-----	++-----	-----+	-----	*02:28, *02:39 = *02:28, *02:40
++-----	++-----	-----+	-----	*02:28, *02:29 = *02:28, *02:35
++-----	++-----	-----+	-----	*02:26:01, *02:38N = *02:26:01, *02:58
++-----	++-----	-----+	-----	*02:26:01, *02:29 = *02:26:01, *02:35
++-----	++-----	-----+	-----	*02:16:01, *02:44 = *02:16:01, *02:45
++-----	++-----	-----+	-----	*02:16:01, *02:39 = *02:16:01, *02:40
++-----	++-----	-----+	-----	*02:16:01, *02:29 = *02:16:01, *02:35
++-----	++-----	-----+	-----	*02:15, *02:38N = *02:15, *02:58
++-----	++-----	-----+	-----	*02:15, *02:44 = *02:15, *02:45
++-----	++-----	-----+	-----	*02:15, *02:39 = *02:15, *02:40
++-----	++-----	-----+	-----	*02:15, *02:29 = *02:15, *02:35
++-----	++-----	-----+	-----	*02:13, *02:38N = *02:13, *02:58
++-----	++-----	-----+	-----	*02:13, *02:44 = *02:13, *02:45
++-----	++-----	-----+	-----	*02:13, *02:39 = *02:13, *02:40
++-----	++-----	-----+	-----	*02:13, *02:29 = *02:13, *02:35
++-----	++-----	-----+	-----	*02:02:01, *02:43 = *02:02:05, *02:43 = *02:02:13, *02:43 = *02:10, *02:43 = *02:13, *02:43 = *02:43, *02:43
++-----	++-----	-----+	-----	*02:27:01, *02:53 = *02:27:02, *02:53
++-----	++-----	-----+	-----	*02:27:01, *02:42 = *02:27:02, *02:42
++-----	++-----	-----+	-----	*02:27:01, *02:38N = *02:27:01, *02:58 = *02:27:02, *02:38N
++-----	++-----	-----+	-----	*02:02:01, *02:12 = *02:12, *02:27:01 = *02:12, *02:49 = *02:27:01, *02:49 = *02:27:02, *02:49
++-----	++-----	-----+	-----	*02:27:01, *02:37 = *02:27:02, *02:37
++-----	++-----	-----+	-----	*02:27:01, *02:44 = *02:27:01, *02:45 = *02:27:02, *02:44 = *02:27:02, *02:45
++-----	++-----	-----+	-----	*02:27:01, *02:39 = *02:27:01, *02:40 = *02:27:02, *02:39 = *02:27:02, *02:40
++-----	++-----	-----+	-----	*02:19, *02:27:01 = *02:19, *02:27:02
++-----	++-----	-----+	-----	*02:27:01, *02:36 = *02:27:02, *02:36
++-----	++-----	-----+	-----	*02:27:01, *02:29 = *02:27:01, *02:35 = *02:27:02, *02:29 = *02:27:02, *02:35
++-----	++-----	-----+	-----	*02:27:01, *02:34 = *02:27:02, *02:34
++-----	++-----	-----+	-----	*02:25Q, *02:27:01 = *02:25Q, *02:27:02
++-----	++-----	-----+	-----	*02:24, *02:27:01 = *02:24, *02:27:02
++-----	++-----	-----+	-----	*02:27:01, *02:28 = *02:27:02, *02:28
++-----	++-----	-----+	-----	*02:26:01, *02:27:01 = *02:26:01, *02:27:02
++-----	++-----	-----+	-----	*02:15, *02:27:01 = *02:15, *02:27:02
++-----	++-----	-----+	-----	*02:13, *02:27:01 = *02:13, *02:27:02
++-----	++-----	-----+	-----	*02:11, *02:53 = *02:14, *02:53
++-----	++-----	-----+	-----	*02:11, *02:42 = *02:14, *02:42
++-----	++-----	-----+	-----	*02:11, *02:38N = *02:11, *02:58 = *02:14, *02:38N
++-----	++-----	-----+	-----	*02:11, *02:49 = *02:14, *02:49
++-----	++-----	-----+	-----	*02:11, *02:37 = *02:14, *02:37
++-----	++-----	-----+	-----	*02:11, *02:44 = *02:11, *02:45 = *02:14, *02:44 = *02:14, *02:45
++-----	++-----	-----+	-----	*02:11, *02:39 = *02:11, *02:40 = *02:14, *02:39 = *02:14, *02:40
++-----	++-----	-----+	-----	*02:11, *02:19 = *02:14, *02:19
++-----	++-----	-----+	-----	*02:11, *02:36 = *02:14, *02:36
++-----	++-----	-----+	-----	*02:11, *02:29 = *02:11, *02:35 = *02:14, *02:35
++-----	++-----	-----+	-----	*02:11, *02:34 = *02:14, *02:34
++-----	++-----	-----+	-----	*02:11, *02:25Q = *02:14, *02:25Q
++-----	++-----	-----+	-----	*02:11, *02:24 = *02:14, *02:24
++-----	++-----	-----+	-----	*02:11, *02:28 = *02:14, *02:28
++-----	++-----	-----+	-----	*02:11, *02:26:01 = *02:14, *02:26:01
++-----	++-----	-----+	-----	*02:11, *02:15 = *02:14, *02:15



101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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Lot No.: 95R

Lot-specific information

++-----	+++++---	-----	-----	*02:11, *02:13 = *02:13, *02:14
++-----	+++++---	-----	-----	*02:11, *02:27:01 = *02:11, *02:27:02 = *02:14, *02:27:01
++-----	+++++---	-----	-----+	*02:09, *02:53 = *02:32, *02:53
++-----	+++++---	-----	-----+	*02:09, *02:42 = *02:32, *02:42
++-----	+++++---	-----	-----+	*02:09, *02:38N = *02:09, *02:58 = *02:32, *02:38N
++-----	+++++---	-----	-----+	*02:09, *02:49 = *02:32, *02:49
++-----	+++++---	-----	-----+	*02:09, *02:37 = *02:32, *02:37
++-----	+++++---	-----	-----+	*02:09, *02:44 = *02:09, *02:45 = *02:32, *02:44 = *02:32, *02:45
++-----	+++++---	-----	-----+	*02:09, *02:39 = *02:09, *02:40 = *02:32, *02:39 = *02:32, *02:40
++-----	+++++---	-----	-----+	*02:09, *02:19 = *02:19, *02:32
++-----	+++++---	-----	-----+	*02:09, *02:36 = *02:32, *02:36
++-----	+++++---	-----	-----+	*02:09, *02:29 = *02:09, *02:35 = *02:29, *02:32 = *02:32, *02:35
++-----	+++++---	-----	-----+	*02:09, *02:34 = *02:32, *02:34
++-----	+++++---	-----	-----+	*02:09, *02:25Q = *02:25Q, *02:32
++-----	+++++---	-----	-----+	*02:09, *02:24 = *02:24, *02:32
++-----	+++++---	-----	-----+	*02:09, *02:28 = *02:28, *02:32
++-----	+++++---	-----	-----+	*02:09, *02:26:01 = *02:26:01, *02:32
++-----	+++++---	-----	-----+	*02:09, *02:15 = *02:15, *02:32
++-----	+++++---	-----	-----+	*02:09, *02:13 = *02:13, *02:32
++-----	+++++---	-----	-----+	*02:09, *02:27:01 = *02:09, *02:27:02 = *02:27:01, *02:32
++-----	+++++---	-----	-----+	*02:09, *02:11 = *02:09, *02:14 = *02:11, *02:32
++-----+	+++++---	-----	-----+	*02:08, *02:53 = *02:33, *02:53
++-----+	+++++---	-----	-----+	*02:08, *02:42 = *02:33, *02:42
++-----+	+++++---	-----	-----+	*02:08, *02:38N = *02:08, *02:58 = *02:33, *02:38N
++-----+	+++++---	-----	-----+	*02:08, *02:49 = *02:33, *02:49
++-----+	+++++---	-----	-----+	*02:08, *02:37 = *02:33, *02:37
++-----+	+++++---	-----	-----+	*02:08, *02:44 = *02:08, *02:45 = *02:33, *02:44 = *02:33, *02:45
++-----+	+++++---	-----	-----+	*02:08, *02:39 = *02:08, *02:40 = *02:33, *02:39 = *02:33, *02:40
++-----+	+++++---	-----	-----+	*02:08, *02:19 = *02:19, *02:33
++-----+	+++++---	-----	-----+	*02:08, *02:36 = *02:33, *02:36
++-----+	+++++---	-----	-----+	*02:08, *02:29 = *02:08, *02:35 = *02:29, *02:33 = *02:33, *02:35
++-----+	+++++---	-----	-----+	*02:08, *02:34 = *02:33, *02:34
++-----+	+++++---	-----	-----+	*02:08, *02:25Q = *02:25Q, *02:33
++-----+	+++++---	-----	-----+	*02:08, *02:24 = *02:24, *02:33
++-----+	+++++---	-----	-----+	*02:08, *02:28 = *02:28, *02:33
++-----+	+++++---	-----	-----+	*02:08, *02:26:01 = *02:26:01, *02:33
++-----+	+++++---	-----	-----+	*02:08, *02:15 = *02:15, *02:33
++-----+	+++++---	-----	-----+	*02:08, *02:13 = *02:13, *02:33
++-----+	+++++---	-----	-----+	*02:08, *02:27:01 = *02:08, *02:27:02 = *02:27:01, *02:33
++-----+	+++++---	-----	-----+	*02:08, *02:11 = *02:08, *02:14 = *02:11, *02:33
++-----+	+++++---	-----	-----+	*02:08, *02:09 = *02:08, *02:32 = *02:09, *02:33
++-----+	+++++---	-----	-----+	*02:07, *02:38N = *02:07, *02:58
++-----+	+++++---	-----	-----+	*02:07, *02:44 = *02:07, *02:45
++-----+	+++++---	-----	-----+	*02:07, *02:39 = *02:07, *02:40
++-----+	+++++---	-----	-----+	*02:07, *02:29 = *02:07, *02:35
++-----+	+++++---	-----	-----+	*02:07, *02:27:01 = *02:07, *02:27:02
++-----+	+++++---	-----	-----+	*02:07, *02:11 = *02:07, *02:14
++-----+	+++++---	-----	-----+	*02:07, *02:09 = *02:07, *02:32
++-----+	+++++---	-----	-----+	*02:07, *02:08 = *02:07, *02:33
++-----+	+++++---	-----	-----+	*02:38N, *02:47 = *02:47, *02:58
++-----+	+++++---	-----	-----+	*02:02:01, *02:46 = *02:02:05, *02:46 = *02:02:13, *02:46 = *02:10, *02:46 = *02:37, *02:46 = *02:37, *02:47 = *02:46, *02:46 = *02:46, *02:47
++-----+	+++++---	-----	-----+	*02:44, *02:47 = *02:45, *02:47
++-----+	+++++---	-----	-----+	*02:39, *02:47 = *02:40, *02:47
++-----+	+++++---	-----	-----+	*02:02:01, *02:06 = *02:06, *02:36 = *02:06, *02:47 = *02:36, *02:47
++-----+	+++++---	-----	-----+	*02:29, *02:47 = *02:35, *02:47
++-----+	+++++---	-----	-----+	*02:27:01, *02:47 = *02:27:02, *02:47
++-----+	+++++---	-----	-----+	*02:11, *02:47 = *02:14, *02:47
++-----+	+++++---	-----	-----+	*02:09, *02:47 = *02:32, *02:47
++-----+	+++++---	-----	-----+	*02:08, *02:47 = *02:33, *02:47
++-----+	+++++---	-----	-----+	*02:05, *02:53 = *02:22, *02:53
++-----+	+++++---	-----	-----+	*02:05, *02:42 = *02:22, *02:42
++-----+	+++++---	-----	-----+	*02:05, *02:38N = *02:22, *02:38N = *02:22, *02:58



101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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Lot No.: 95R

Lot-specific information

++-+--	++-----	-----	-----	*02:05, *02:49 = *02:22, *02:49
++-+--	++-----	-----	-----	*02:05, *02:37 = *02:22, *02:37
++-+--	++-----	-----	-----	*02:05, *02:44 = *02:05, *02:45 = *02:22, *02:44 = *02:22, *02:45
++-+--	++-----	-----	-----	*02:05, *02:39 = *02:05, *02:40 = *02:22, *02:39 = *02:22, *02:40
++-+--	++-----	-----	-----	*02:05, *02:19 = *02:19, *02:22
++-+--	++-----	-----	-----	*02:05, *02:36 = *02:22, *02:36
++-+--	++-----	-----	-----	*02:05, *02:29 = *02:05, *02:35 = *02:22, *02:29 = *02:22, *02:35
++-+--	++-----	-----	-----	*02:05, *02:34 = *02:22, *02:34
++-+--	++-----	-----	-----	*02:05, *02:25Q = *02:22, *02:25Q
++-+--	++-----	-----	-----	*02:05, *02:24 = *02:22, *02:24
++-+--	++-----	-----	-----	*02:05, *02:28 = *02:22, *02:28
++-+--	++-----	-----	-----	*02:05, *02:26:01 = *02:22, *02:26:01
++-+--	++-----	-----	-----	*02:05, *02:15 = *02:15, *02:22
++-+--	++-----	-----	-----	*02:05, *02:13 = *02:13, *02:22
++-+--	++-----	-----	-----	*02:05, *02:27:01 = *02:22, *02:27:01 = *02:22, *02:27:02
++-+--	++-----	-----	-----	*02:02:01, *02:17 = *02:05, *02:11 = *02:11, *02:17 = *02:11, *02:22 = *02:14, *02:22 = *02:17, *02:22
++-+--	++-----	-----	-----	*02:05, *02:09 = *02:09, *02:22 = *02:22, *02:32
++-+--	++-----	-----	-----	*02:05, *02:08 = *02:08, *02:22 = *02:22, *02:33
++-+--	++-----	-----	-----	*02:05, *02:07 = *02:07, *02:22
++-+--	++-----	-----	-----	*02:05, *02:47 = *02:22, *02:47
++-+--	++-----	-----	-----	*02:04, *02:38N = *02:04, *02:58
++-+--	++-----	-----	-----	*02:04, *02:44 = *02:04, *02:45
++-+--	++-----	-----	-----	*02:04, *02:39 = *02:04, *02:40
++-+--	++-----	-----	-----	*02:04, *02:29 = *02:04, *02:35
++-+--	++-----	-----	-----	*02:04, *02:27:01 = *02:04, *02:27:02
++-+--	++-----	-----	-----	*02:04, *02:11 = *02:04, *02:14
++-+--	++-----	-----	-----	*02:04, *02:09 = *02:04, *02:32
++-+--	++-----	-----	-----	*02:04, *02:08 = *02:04, *02:33
++-+--	++-----	-----	-----	*02:04, *02:05 = *02:04, *02:22
++-+--	++-----	-----	-----	*02:20, *02:38N = *02:20, *02:58
++-+--	++-----	-----	-----	*02:20, *02:44 = *02:20, *02:45
++-+--	++-----	-----	-----	*02:20, *02:39 = *02:20, *02:40
++-+--	++-----	-----	-----	*02:20, *02:29 = *02:20, *02:35
++-+--	++-----	-----	-----	*02:02:01, *02:31 = *02:02:05, *02:31 = *02:02:13, *02:31 = *02:10, *02:31 = *02:20, *02:31 = *02:31, *02:31
++-+--	++-----	-----	-----	*02:20:01, *02:16:02 = *02:16:01, *02:20 = *02:16:02, *02:20
++-+--	++-----	-----	-----	*02:20, *02:27:01 = *02:20, *02:27:02
++-+--	++-----	-----	-----	*02:11, *02:20 = *02:14, *02:20
++-+--	++-----	-----	-----	*02:09, *02:20 = *02:20, *02:32
++-+--	++-----	-----	-----	*02:08, *02:20 = *02:20, *02:33
++-+--	++-----	-----	-----	*02:05, *02:20 = *02:20, *02:22
++-+--	++-----	-----	-----	*02:02:01, *02:23 = *02:02:05, *02:23 = *02:02:13, *02:23 = *02:10, *02:23 = *02:19, *02:23 = *02:23, *02:23 = *02:23, *02:36
++-+--	++-----	-----	-----	*02:38N, *02:43 = *02:43, *02:58
++-+--	++-----	-----	-----	*02:43, *02:44 = *02:43, *02:45
++-+--	++-----	-----	-----	*02:39, *02:43 = *02:40, *02:43
++-+--	++-----	-----	-----	*02:29, *02:43 = *02:35, *02:43
++-+--	++-----	-----	-----	*02:12, *02:44 = *02:12, *02:45
++-+--	++-----	-----	-----	*02:12, *02:39 = *02:12, *02:40
++-+--	++-----	-----	-----	*02:12, *02:29 = *02:12, *02:35
++-+--	++-----	-----	-----	*02:27:01, *02:43 = *02:27:02, *02:43
++-+--	++-----	-----	-----	*02:11, *02:43 = *02:14, *02:43
++-+--	++-----	-----	-----	*02:09, *02:43 = *02:32, *02:43
++-+--	++-----	-----	-----	*02:08, *02:43 = *02:33, *02:43
++-+--	++-----	-----	-----	*02:38N, *02:46 = *02:46, *02:58
++-+--	++-----	-----	-----	*02:44, *02:46 = *02:45, *02:46
++-+--	++-----	-----	-----	*02:39, *02:46 = *02:40, *02:46
++-+--	++-----	-----	-----	*02:06, *02:37 = *02:06, *02:46 = *02:36, *02:46
++-+--	++-----	-----	-----	*02:06, *02:44 = *02:06, *02:45
++-+--	++-----	-----	-----	*02:06, *02:39 = *02:06, *02:40
++-+--	++-----	-----	-----	*02:29, *02:46 = *02:35, *02:46
++-+--	++-----	-----	-----	*02:06, *02:29 = *02:06, *02:35



101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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++---+--	++---+--	-----	---+-----	*02:27:01, *02:46 = *02:27:02, *02:46
++---+--	++---+--	-----	---+-----	*02:11, *02:46 = *02:14, *02:46
++---+--	++---+--	-----	---+-----	*02:09, *02:46 = *02:32, *02:46
++---+--	++---+--	-----	---+-----	*02:08, *02:46 = *02:33, *02:46
++---+--	++---+--	+-----	-----	*02:05, *02:43 = *02:22, *02:43
++---+--	++---+--	-----	---+-----	*02:17, *02:44 = *02:17, *02:45
++---+--	++---+--	-----	---+-----	*02:17, *02:39 = *02:17, *02:40
++---+--	++---+--	-----	---+-----	*02:17, *02:29 = *02:17, *02:35
++---+--	++---+--	-----	---+-----	*02:05, *02:46 = *02:22, *02:46
+++-----	+++-----	+-----	-----+--	*02:31, *02:38N = *02:31, *02:58
+++-----	+++-----	+-----	---+-----	*02:31, *02:44 = *02:31, *02:45
+++-----	+++-----	+-----	---+-----	*02:31, *02:39 = *02:31, *02:40
+++-----	+++-----	+-----+	-----	*02:29, *02:31 = *02:31, *02:35
+++-----	+++-----+	-----	---+-----	*02:16:02, *02:44 = *02:16:02, *02:45
+++-----	+++-----+	-----	---+-----	*02:16:02, *02:39 = *02:16:02, *02:40
+++-----	+++-----+	-----	---+-----	*02:16:02, *02:29 = *02:16:02, *02:35
+++-----	+++-----+	-----	---+-----	*02:02:01, *02:03 = *02:03, *02:20 = *02:03, *02:28 = *02:16:02, *02:28
+++-----	+++-----+	+-----	-----	*02:16:01, *02:31 = *02:16:02, *02:31
+++-----	+++-----+	+-----	-----	*02:13, *02:31 = *02:20, *02:43 = *02:31, *02:43
+++-----	+++-----+	+-----	-----	*02:27:01, *02:31 = *02:27:02, *02:31
+++-----	+++-----+	+-----	-----	*02:11, *02:31 = *02:14, *02:31
+++-----	+++-----+	+-----	-----	*02:09, *02:31 = *02:31, *02:32
+++-----	+++-----+	-----	-----	*02:02:01, *02:18 = *02:09, *02:16:02 = *02:09, *02:18 = *02:18, *02:20
+++-----+	+++-----+	+-----	-----	*02:08, *02:31 = *02:31, *02:33
+++-----+	+++-----+	+-----	-----	*02:05, *02:31 = *02:22, *02:31
+++-----	+++-----	+-----+	---+-----	*02:23, *02:38N = *02:23, *02:58
+++-----	+++-----	+-----+	++-----	*02:23, *02:44 = *02:23, *02:45
+++-----	+++-----	+-----+	++-----	*02:23, *02:39 = *02:23, *02:40
+++-----	+++-----	+-----++	++-----	*02:23, *02:29 = *02:23, *02:35
+++-----	+++-----+	+-----+	++-----	*02:13, *02:23 = *02:23, *02:43
+++-----	+++-----+	+-----+	++-----	*02:23, *02:27:01 = *02:23, *02:27:02
+++-----	+++-----+	+-----+	++-----	*02:11, *02:23 = *02:14, *02:23
+++-----	+++-----	+-----+	++-----	*02:09, *02:23 = *02:23, *02:32
+++-----+	+++-----	+-----+	++-----	*02:08, *02:23 = *02:23, *02:33
+++-----+	+++-----	+-----+	++-----	*02:06, *02:23 = *02:23, *02:47
+++-----+	+++-----	+-----+	++-----	*02:05, *02:23 = *02:22, *02:23
+++-----	+++-----	+-----+	++-----	*02:20, *02:23 = *02:23, *02:31
+++-----	+++-----+	---+-----	---+-----	*02:03, *02:44 = *02:03, *02:45
+++-----	+++-----+	---+-----	---+-----	*02:03, *02:39 = *02:03, *02:40
+++-----	+++-----+	---+-----	-----	*02:03, *02:29 = *02:03, *02:35
+++-----	+++-----+	-----	---+-----	*02:18, *02:44 = *02:18, *02:45
+++-----	+++-----+	-----	---+-----	*02:18, *02:39 = *02:18, *02:40
+++-----	+++-----+	-----	---+-----	*02:18, *02:29 = *02:18, *02:35
+++-----	+++-----+	---+-----	-----	*02:03, *02:09 = *02:18, *02:28

*02:02:01 = 02:02:01-02:02:03, 02:02:06-02:02:12 and 02:02:15-02:02:25 and 02:48,
02:50, 02:54 and 02:56-02:57 and 02:59-02:66
*02:02:05 = *02:02:05, 02:02:14 and 02:51
*02:15 = *02:15 and 02:21
*02:25Q = *02:25Q and *02:30
*02:26:01 = *02:26:01-02:26:03
*02:37 = *02:37 and 02:52N
*02:49 = *02:49 and 02:55



101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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

Lot No.: **95R**

Lot-specific information
SPECIFICITY TABLE

HLA-C*02 SSP subtyping

Specificities and sizes of the PCR products of the 32 primer mixes used for
HLA-C*02 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*02 alleles ³	Other amplified HLA Class I alleles ⁴
1	250 bp	800 bp	*02:02:01-02:02:03, 02:02:05-02:02:25, 02:04-02:15, 02:17, 02:19-02:31, 02:33- 02:40, 02:42-02:66	*01:04, 01:09, 01:21, 04:94:01-04:94:02, 05:08, 05:52, 06:02:01:01- 06:02:01:02, 06:02:03- 06:03:02, 06:07-06:39, 06:41- 06:78, 06:80-06:93, 08:27, 08:29, 08:31, 12:02:01-12:08, 12:10:01-12:13, 12:15-12:17, 12:21-12:23, 12:25-12:82, 12:84N, 12:86-12:91, 14:16, 16:04:01, 16:29, 16:33, 16:42, 18:03
2⁵	95 bp	800 bp	*02:02:01-02:02:03, 02:02:06-02:02:12, 02:02:15-02:02:25, 02:04, 02:07-02:09, 02:11, 02:13, 02:15, 02:19-02:27:01, 02:28- 02:31, 02:34-02:40, 02:42-02:50, 02:52N- 02:57, 02:59-02:66	*12:03:17
3^{5,8}	95 bp, 120 bp	800 bp	*02:03, 02:16:02, 02:18, 02:20, 02:31	B*27:34, B*35:01:30^W, B*40:02:07, B*40:06:02, B*57:03:02^W
4	150 bp	1070 bp	*02:04	*14:41
5⁹	145 bp, 240 bp	1070 bp	*02:05, 02:17, 02:22	*01:10, 06:08, 08:31, 14:25, 16:29, 16:50, B*07:02:07, B*27:05:15
6¹⁰	160 bp, 215 bp	800 bp	*02:06, 02:46-02:47	*12:15
7	130 bp	800 bp	*02:07	*16:10
8^{5,11}	70 bp, 280 bp	1070 bp	*02:08, 02:33	*03:64:01, 12:03:23, 15:10:02

101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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Lot No.: **95R**

Lot-specific information

Lot No.	Fragment Size	Fragment Size	Fragment Size	Fragment Size
9	200 bp	1070 bp	*02:02:01-02:02:03, 02:02:05-02:09, 02:11- 02:13, 02:15-02:28, 02:30-02:40, 02:42- 02:57, 02:59-02:66	
10^{5,7}	125 bp	1070 bp	*02:02:01-02:02:03, 02:02:05-02:02:12, 02:02:14-02:25Q, 02:27:01-02:38N, 02:40, 02:42-02:44, 02:46- 02:66	*04:03, 04:06, 04:80, 04:107, 05:26, 15:11, 16:34
11^{5,12}	85 bp, 170 bp	800 bp	*02:09, 02:18, 02:32	
12¹³	150 bp, 230 bp	1070 bp	*02:11, 02:14, 02:17	*04:42, 05:43, 06:05 ^W , 07:02:09, 08:37, 12:16, 14:25, 15:23, 15:63, 16:21, B*27:84
13⁶	225 bp	1070 bp	*02:12, 02:27:01- 02:27:02	*16:34
14^{5,14}	80 bp, 115 bp	800 bp	*02:13, 02:43	*12:03:17
15¹⁵	130 bp, 190 bp	1070 bp	*02:15, 02:21	
16^{6,7}	250 bp	1070 bp	*02:03, 02:16:01- 02:16:02, 02:18	*01:22, 01:35, 04:04:01- 04:04:02, 04:06, 04:13, 04:34, 04:58, 04:122, 05:11, 05:17, 05:27, 05:68, 05:70, 05:79, 06:04, 08:01:01- 08:01:08, 08:03:01-08:04:03, 08:06, 08:08-08:11, 08:13- 08:14, 08:16:01-08:16:02, 08:20-08:22, 08:24, 08:26N, 08:36N, 08:38-08:42, 08:44, 08:46, 08:50, 08:54, 08:56- 08:61, 08:65-08:66, 08:72, 12:14:01-12:14:02, 12:18:01- 12:18:02, 12:20, 12:83, 14:06, 14:15, 15:02:01-15:07, 15:09-15:13, 15:15-15:19, 15:21-15:24, 15:26-15:64, 16:35, 16:40, 16:48, 17:01:01:01-17:15, B*58:02
17^{5,16}	110 bp, 160 bp	1070 bp	*02:23, 02:31, 02:43	*12:03:17

101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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Lot No.: **95R**

Lot-specific information

Lot No.	Size	Size	Alleles	Alleles
18	235 bp	800 bp	*02:26:01-02:26:03	*03:07, 03:10, 03:15, 03:29, 03:45, 03:163, 04:16, 04:42, 04:103, 05:01:01:01-05:01:25, 05:03-05:12, 05:14-05:19, 05:21-05:25, 05:27-05:29:02, 05:31-05:77, 05:79-05:85, 06:02:01:01-06:02:01:02, 06:02:03-06:02:08, 06:02:10-06:02:20, 06:02:22-06:10, 06:12-06:17, 06:19-06:32, 06:34-06:81, 06:83-06:93, 07:07, 07:09, 07:76, 08:10, 12:04:01-12:05, 12:09, 12:21, 12:33, 12:41, 12:60, 12:72, 15:02:01-15:06:03, 15:08-15:10:02, 15:12-15:13, 15:15-15:19, 15:21-15:24, 15:26-15:35, 15:37-15:42, 15:44-15:64, 16:02:01-16:02:07, 16:02:09, 16:09, 16:12, 16:19, 16:25, 16:37, 16:46-16:48, 17:01:01:01-17:01:08, 17:02-17:15, 18:01-18:06
19⁵	80 bp	1070 bp	*02:03, 02:28	B*27:34, B*35:01:30^W, B*40:02:07, B*40:06:02, B*57:03:02^W
20	180 bp	1070 bp	*02:24	B*07:113, B*08:64, B*40:192
21^{5,17}	115 bp, 205 bp	1070 bp	*02:25Q, 02:30	*15:19
22⁵	110 bp	1070 bp	*02:34	*16:09
23¹⁸	205 bp, 390 bp,	1070 bp	*02:29, 02:35	
24	325 bp	1070 bp	*02:06, 02:23, 02:36	*03:81, 03:175, 04:108, 06:89, 07:123, 07:173, 12:15, 15:02:01-15:03, 15:05:01-15:13, 15:15-15:19, 15:21-15:24, 15:26-15:29, 15:31-15:39, 15:41-15:63, 16:20
25	160 bp	800 bp	*02:19, 02:23	*01:09, 03:21, 03:80, 03:142, B*07:55, B*07:100, B*15:45, B*15:63, B*15:248
26	140 bp	1070 bp	*02:39-02:40	
27	140 bp	800 bp	*02:44-02:45	

101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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Lot No.: 95R		Lot-specific information		
28 ^{5,19}	90 bp, 220 bp	800 bp	*02:37, 02:46, 02:52N	*06:81
29	210 bp	1070 bp	*02:12, 02:49, 02:55	*04:03, 04:06, 04:80, 04:107
30 ^{5,20}	80 bp, 270 bp	1070 bp	*02:38N, 02:58	*01:35, 04:08, 04:34, 05:27, 05:39, 08:41, 12:83, 14:20, 15:15, 17:07, B*58:02
31 ⁵	100 bp	1070 bp	*02:42	*01:21, 06:05, 07:02:09, 08:14, 12:16, 15:63, B*67:02
32	150 bp	1070 bp	*02:53	

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*02 high resolution SSP typings.

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

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

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

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

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*02 SSP subtyping.

In addition, wells number 2, 3, 6, 7, 11, 14, 18, 25, 27 and 28 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band.

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 Class I alleles non-HLA-C*02 alleles will be amplified by primer mixes 1, 2, 4 to 8, 10, 12 to 14, 16 to 18, 21, 22, 24, 25, 28, 29 and 31. In addition, primer mix 3 will amplify the B*27:34, B*40:02:07 and B*40:06:02 and weakly the B*35:01:30 and B*57:03:02 alleles, primer mix 5 will amplify the B*07:02:07 and B*27:05:15 alleles, primer mix 12 will amplify the B*27:84 allele, primer mix 16 will amplify the B*58:02 allele, primer mix 19 will amplify the B*27:34, B*40:02:07 and B*40:06:02, and weakly the B*35:01:30 and B*57:03:02 allele, primer mix 20 will amplify the B*07:113, B*08:64 and B*40:192 alleles, primer mix 25 will amplify the B*07:55, B*07:100, B*15:45, B*15:63, B*15:248 alleles, primer mix 30 will amplify the B*58:02 and primer mix 31 will amplify the B*67:02 allele.

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

⁶Primer mixes 13 and 16 may give a lower yield of HLA-specific PCR product than the other C*02 primer mixes.

⁷Primer mixes 10 and 16 may have tendencies of unspecific amplifications.

101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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Lot No.: 95R**Lot-specific information**

⁸Primer mix 3: Specific PCR fragment of 95 bp in the C*02:03, 02:16:02 and 02:18 and in the B*27:34, B*35:01:30^w, B*40:02:07, B*40:06:02 and B*57:03:02^w alleles. Specific PCR fragment of 120 bp in the C*02:20 and 02:31 alleles.

⁹Primer mix 5: Specific PCR fragment of 145 bp in the C*02:22 and the C*08:31 and in the B*07:02:07 and B*27:05:15 alleles. Specific PCR fragment of 240 bp in the C*02:05 and 02:17 and the C*01:10, 06:08, 14:25 and 16:29, 16:50 alleles.

¹⁰Primer mix 6: Specific PCR fragment of 160 bp in the C*02:06 and C*02:47 and the 12:15 alleles. Specific PCR fragment of 215 bp in the C*02:46 allele.

¹¹Primer mix 8: Specific PCR fragment of 70 bp in the C*02:08 and the C*03:64:01,12:03:23 and 15:10:02 alleles. Specific PCR fragment of 280 bp in the C*02:33 allele.

¹²Primer mix 11: Specific PCR fragment of 85 bp in the C*02:18 and 02:32 alleles. Specific PCR fragment of 170 bp in the C*02:09 allele.

¹³Primer mix 12: Specific PCR fragment of 150 bp in the C*02:11 and 02:14 and the C*04:42, 05:43, 06:05^w, 07:02:09, 08:37, 12:16, 15:23, 15:63 and 16:21 and the B*27:84 alleles. Specific PCR fragment of 230 bp in the C*02:17 and the C*14:25 alleles.

¹⁴Primer mix 14: Specific PCR fragment of 80 bp in the C*02:13 allele. Specific PCR fragment of 115 bp in the C*02:43 and the C*12:03:17 alleles.

¹⁵Primer mix 15: Specific PCR fragment of 130 bp in the C*02:21 allele. Specific PCR fragment of 190 bp in the C*02:15 allele.

¹⁶Primer mix 17: Specific PCR fragment of 110 bp in the C*02:31 and 02:43 and the 12:03:17 alleles. Specific PCR fragment of 160 bp in the C*02:23 allele.

¹⁷Primer mix 21: Specific PCR fragment of 115 bp in the C*02:30 and the C*15:19 alleles. Specific PCR fragment of 205 bp in the C*02:25Q allele.

¹⁸Primer mix 23: Specific PCR fragment of 205 bp in the C*02:29 allele. Specific PCR fragment of 390 bp in the C*02:35 allele.

¹⁹Primer mix 28: Specific PCR fragment of 90 bp in the C*02:52N allele. Specific PCR fragment of 220 bp in the C*02:37 and 02:46 and 06:81 alleles.

²⁰Primer mix 30: Specific PCR fragment of 80 bp in the C*02:38N allele. Specific PCR fragment of 270 bp in the C*02:58 and the C*01:35, 04:08, 04:34, 05:27, 05:39, 08:41, 12:83, 14:20, 15:15, and 17:07 and the B*58:02 alleles.

'w', might be weakly amplified.

101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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Lot No.: **95R**

Lot-specific information

INTERPRETATION TABLE																
HLA-C*02 SSP subtyping																
Amplification patterns for the HLA-C*02:02 to 02:66 alleles																
	Well ⁹															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length of spec.	250	95	95	150	145	160	130	70	200	125	85	150	225	80	130	250
PCR product(s)			120		240	215		280			170	230		115	190	
Length of int. pos. control ¹	800	800	800	1070	1070	800	800	1070	1070	1070	800	1070	1070	800	1070	1070
5'-primer(s) ²	5'-CCA ^{3'} 2 nd	5'-ACA ^{3'} 486	5'-ACA ^{3'} 486	5'-gTg ^{3'} 92	5'-AAT ^{3'} 453 5'-AgT ^{3'} 361	5'-TTA ^{3'} 420 5'-ggT ^{3'} 364	5'-CCA ^{3'} 2 nd	5'-gCT ^{3'} 105	5'-CTA ^{3'} 703	5'-CCA ^{3'} 113	5'-ACA ^{3'} 486	5'-TCg ^{3'} 97	5'-CCA ^{3'} 118	5'-ACA ^{3'} 486	5'-CCA ^{3'} 113	5'-CCA ^{3'} 2 nd
3'-primer(s) ³	5'-CCA ^{3'} 538	5'-CCA ^{3'} 538	5'-CAG ^{3'} 538 5'-TgT ^{3'} 578 5'-CCg ^{3'} 555	5'-CTT ^{3'} 201	5'-CTC ^{3'} 559	5'-CCA ^{3'} 538 5'-gTC ^{3'} 418	5'-g ^{3'} 343 5'-AgC ^{3'} 134	5'-TCg ^{3'} 861	5'-CTT ^{3'} 201	5'-CCg ^{3'} 527	5'-CTC ^{3'} 559 5'-ggC ^{3'} 302 5'-CgT ^{3'} 559	5'-CTT ^{3'} 201	5'-ggC ^{3'} 302	5'-CCg ^{3'} 527	5'-CTT ^{3'} 201	5'-CAG ^{3'} 538
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HLA-C allele ^{4,5}																
*02:02:01-02:02:03, 02:02:06-02:02:12, 02:02:15-02:02:25, 02:48, 02:50, 02:54, 02:56-02:57, 02:59-02:66	1	2							9	10						
*02:02:05, 02:02:14, 02:51	1								9	10						
*02:02:13	1								9							
*02:03			3						9	10						16
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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Lot No.: **95R**

Lot-specific information

INTERPRETATION TABLE																
HLA-C*02 SSP subtyping																
Amplification patterns for the HLA-C*02:02 to 02:66 alleles																
Well⁹																
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
110	235	80	180	115	110	205	325	160	140	140	90	210	80	100	150	Length of spec. PCR product(s)
160				205		390					220		270			Length of int. pos. control ¹
1070	800	1070	1070	1070	1070	1070	1070	800	1070	800	800	1070	1070	1070	1070	5'-primer(s) ²
5'-ACA ^{3'}	5'-CCg ^{3'}	5'-ACA ^{3'}	5'-TAC ^{3'}	5'-CgA ^{3'}	5'-CgC ^{3'}	5'-gCC ^{3'}	5'-ggC ^{3'}	5'-gTA ^{3'}	5'-gCT ^{3'}	5'-gCT ^{3'}	5'-gCT ^{3'}	5'-CCA ^{3'}	5'-CCA ^{3'}	5'-TCT ^{3'}	5'-ACA ^{3'}	
	5'-CCg ^{3'}			5'-CTA ^{3'}		5'-CTA ^{3'}			5'-ACA ^{3'}	5'-ACA ^{3'}	5'-CCg ^{3'}					
											5'-ggT ^{3'}					
555	312	527	506	201	312	419	3rd I	538	203	202	153	289	369	201	595	3'-primer(s) ³
5'-CCg ^{3'}	5'-AgT ^{3'}	5'-CCA ^{3'}	5'-Tgg ^{3'}	5'-CTT ^{3'}	5'-AgT ^{3'}	5'-Cgg ^{3'}	5'-CTC ^{3'}	5'-CCA ^{3'}	5'-CTg ^{3'}	5'-TCC ^{3'}	5'-ACT ^{3'}	5'-AgC ^{3'}	5'-CCT ^{3'}	5'-CTT ^{3'}	5'-CCT ^{3'}	
559				538		865			580	578	538	289	558			
5'-CgT ^{3'}				5'-CCA ^{3'}		5'-CCT ^{3'}			5'-TCC ^{3'}	5'-TgA ^{3'}	5'-CCA ^{3'}	5'-AgC ^{3'}	5'-Agg ^{3'}			
603																
5'-TTg ^{3'}																
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																HLA-C allele ⁴
																*02:02:01-02:02:03, 02:02:06-02:02:12, 02:02:15-02:02:25, 02:48, 02:50, 02:54, 02:56-02:57, 02:59-02:66
																*02:02:05, 02:02:14, 02:51
																*02:02:13
		19														*02:03
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.



101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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Lot No.: **95R**

Lot-specific information

Length of spec.	250	95	95	150	145	160	130	70	200	125	85	150	225	80	130	250
PCR product(s)			120		240	215		280			170	230		115	190	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*02:04	1	2		4					9	10						
*02:05	1				5				9	10						
*02:06	1					6			9	10						
*02:07	1	2					7		9	10						
*02:08	1	2						8	9	10						
*02:09	1	2							9	10	11					
*02:10	1									10						
*02:11	1	2							9	10		12				
*02:12	1								9	10			13			
*02:13	1	2							9	10				14		
*02:14	1									10		12				
*02:15, 02:21 ⁶	1	2							9	10					15	
*02:16:01									9	10						16
*02:16:02			3						9	10						16
*02:17	1				5				9	10		12				
*02:18			3						9	10	11					16
*02:19	1	2							9	10						
*02:20	1	2	3						9	10						
*02:22	1	2			5				9	10						
*02:23	1	2							9	10						
*02:24	1	2							9	10						
*02:25Q, 02:30 ⁷	1	2							9	10						
*02:26:01-02:26:03	1	2							9							
*02:27:01	1	2							9	10			13			
*02:27:02	1								9	10			13			
*02:28	1	2							9	10						
*02:29	1	2								10						
*02:31	1	2	3						9	10						
*02:32									9	10	11					
*02:33	1							8	9	10						
*02:34	1	2							9	10						
*02:35	1	2							9	10						
*02:36	1	2							9	10						
*02:37, 02:52N ⁸	1	2							9	10						
*02:38N	1	2							9	10						
*02:39	1	2							9							
*02:40	1	2							9	10						
*02:42	1	2							9	10						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **95R**

Lot-specific information

110	235	80	180	115	110	205	325	160	140	140	90	210	80	100	150	Length of spec. PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																*02:04
																*02:05
							24									*02:06
																*02:07
																*02:08
																*02:09
																*02:10
																*02:11
												29				*02:12
																*02:13
																*02:14
																*02:15, 02:21 ⁶
																*02:16:01
																*02:16:02
																*02:17
																*02:18
								25								*02:19
																*02:20
																*02:22
17							24	25								*02:23
			20													*02:24
				21												*02:25Q, 02:30 ⁷
18																*02:26:01-02:26:03
																*02:27:01
																*02:27:02
		19														*02:28
							23									*02:29
17																*02:31
																*02:32
																*02:33
					22											*02:34
						23										*02:35
							24									*02:36
											28					*02:37, 02:52N ⁸
													30			*02:38N
								26								*02:39
								26								*02:40
														31		*02:42
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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

Lot No.: **95R**

Lot-specific information

Length of spec.	250	95	95	150	145	160	130	70	200	125	85	150	225	80	130	250
PCR product(s)			120		240	215		280			170	230		115	190	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*02:43	1	2							9	10				14		
*02:44	1	2							9	10						
*02:45	1	2							9							
*02:46	1	2				6			9	10						
*02:47	1	2				6			9	10						
*02:49, 02:55	1	2							9	10						
*02:53	1	2							9	10						
*02:58	1									10						
*01:04, 04:94:01-04:94:02, 06:02:09, 06:02:21, 06:11, 06:18, 06:33, 06:82, 08:27, 08:29, 12:02:01-12:03:16, 12:03:18- 12:03:22, 12:03:24-12:03:25, 12:06- 12:08, 12:10:01-12:13, 12:17, 12:22-12:23, 12:25-12:32, 12:34- 12:40, 12:42Q-12:59, 12:61-12:71, 12:73-12:82, 12:84N, 12:86-12:91, 14:16, 16:04:01, 16:33, 16:42	1															
*01:09	1															
*01:10, 16:50, <i>B</i> *07:02:07, <i>B</i> *27:05:15					5											
*01:21	1															
*01:22, 04:04:01-04:04:02, 04:13, 04:58, 04:122, 08:01:01-08:01:08, 08:03:01-08:04:03, 08:06, 08:08- 08:09, 08:11, 08:13, 08:16:01- 08:16:02, 08:20-08:22, 08:24, 08:26N, 08:36N, 08:38-08:40, 08:42, 08:44, 08:46, 08:50, 08:54, 08:56-08:61, 08:65-08:66, 08:72, 12:14:01-12:14:02, 12:18:01- 12:18:02, 12:20, 14:06, 14:15, 16:35, 16:40, 17:01:09																16
*01:35, 04:34, 08:41, 12:83, <i>B</i> *58:02																16
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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

Lot No.: **95R**

Lot-specific information

110	235	80	180	115	110	205	325	160	140	140	90	210	80	100	150	Length of spec. PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																*02:43
										27						*02:44
										27						*02:45
											28					*02:46
																*02:47
												29				*02:49, 02:55
															32	*02:53
													30			*02:58
																*01:04, 04:94:01-04:94:02, 06:02:09, 06:02:21, 06:11, 06:18, 06:33, 06:82, 08:27, 08:29, 12:02:01-12:03:16, 12:03:18- 12:03:22, 12:03:24-12:03:25, 12:06- 12:08, 12:10:01-12:13, 12:17, 12:22-12:23, 12:25-12:32, 12:34- 12:40, 12:42Q-12:59, 12:61-12:71, 12:73-12:82, 12:84N, 12:86-12:91, 14:16, 16:04:01, 16:33, 16:42
								25								*01:09
																*01:10, 16:50, <i>B</i> *07:02:07, <i>B</i> *27:05:15
														31		*01:21
																*01:22, 04:04:01-04:04:02, 04:13, 04:58, 04:122, 08:01:01-08:01:08, 08:03:01-08:04:03, 08:06, 08:08- 08:09, 08:11, 08:13, 08:16:01- 08:16:02, 08:20-08:22, 08:24, 08:26N, 08:36N, 08:38-08:40, 08:42, 08:44, 08:46, 08:50, 08:54, 08:56-08:61, 08:65-08:66, 08:72, 12:14:01-12:14:02, 12:18:01- 12:18:02, 12:20, 14:06, 14:15, 16:35, 16:40, 17:01:09
													30			*01:35, 04:34, 08:41, 12:83, <i>B</i> *58:02
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.



101.622-12 – including *Taq pol.*, IFU-01
 101.622-12u– without *Taq pol.*, IFU-02

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

Lot No.: **95R**

Lot-specific information

Length of spec. PCR product(s)	250		95		150		145		160		130		70		200		125		85		150		225		80		130		250		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16															
*03:07, 03:10, 03:15, 03:29, 03:45, 03:163, 04:16, 04:103, 05:01:01:01- 05:01:25, 05:03-05:07N, 05:09:01- 05:10, 05:12, 05:14-05:16, 05:18:01-05:19, 05:21-05:25, 05:28- 05:29:02, 05:31-05:38, 05:40- 05:42, 05:44:01-05:51Q, 05:53- 05:67, 05:69, 05:71-05:77, 05:80- 05:85, 06:06, 06:40, 06:79N, 07:07, 07:09, 07:76, 12:09, 16:02:01- 16:02:07, 16:02:09, 16:12, 16:19, 16:25, 16:37, 16:46-16:47, 18:01- 18:02, 18:04-18:06																															
*03:21, 03:80, 03:142, <i>B*07:55</i> , <i>B*07:100</i> , <i>B*15:45</i> , <i>B*15:63</i> , <i>B*15:248</i>																															
*03:64:01								8																							
*03:81, 03:175, 04:108, 07:123, 07:173, 16:20																															
*04:03, 04:80, 04:107																		10													
*04:06																		10												16	
*04:08, 14:20																															
*04:42, 05:43																					12										
*05:08, 05:52, 06:02:01:01- 06:02:01:02, 06:02:03-06:02:08, 06:02:10-06:02:20, 06:02:22- 06:03:02, 06:07, 06:09-06:10, 06:12-06:17, 06:19-06:32, 06:34- 06:39, 06:41-06:78, 06:80, 06:83- 06:88, 06:90-06:93, 12:04:01- 12:05, 12:21, 12:33, 12:41, 12:60, 12:72, 18:03	1																														
*05:11, 05:17, 05:68, 05:70, 05:79, 06:04, 08:10, 15:04, 15:30, 15:40, 15:64, 16:48, 17:01:01:01- 17:01:08, 17:02-17:06, 17:08-17:15																															16
*05:26																		10													
*05:27, 17:07																															16
*05:39																															
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16															

101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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

Lot No.: **95R**

Lot-specific information

110	235	80	180	115	110	205	325	160	140	140	90	210	80	100	150	Length of spec. PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																*03:07, 03:10, 03:15, 03:29, 03:45, 03:163, 04:16, 04:103, 05:01:01:01-05:01:25, 05:03-05:07N, 05:09:01-05:10, 05:12, 05:14-05:16, 05:18:01-05:19, 05:21-05:25, 05:28-05:29:02, 05:31-05:38, 05:40-05:42, 05:44:01-05:51Q, 05:53-05:67, 05:69, 05:71-05:77, 05:80-05:85, 06:06, 06:40, 06:79N, 07:07, 07:09, 07:76, 12:09, 16:02:01-16:02:07, 16:02:09, 16:12, 16:19, 16:25, 16:37, 16:46-16:47, 18:01-18:02, 18:04-18:06
								25								*03:21, 03:80, 03:142, <i>B*07:55</i> , <i>B*07:100</i> , <i>B*15:45</i> , <i>B*15:63</i> , <i>B*15:248</i>
																*03:64:01
							24									*03:81, 03:175, 04:108, 07:123, 07:173, 16:20
												29				*04:03, 04:80, 04:107
												29				*04:06
													30			*04:08, 14:20
	18															*04:42, 05:43
	18															*05:08, 05:52, 06:02:01:01-06:02:01:02, 06:02:03-06:02:08, 06:02:10-06:02:20, 06:02:22-06:03:02, 06:07, 06:09-06:10, 06:12-06:17, 06:19-06:32, 06:34-06:39, 06:41-06:78, 06:80, 06:83-06:88, 06:90-06:93, 12:04:01-12:05, 12:21, 12:33, 12:41, 12:60, 12:72, 18:03
	18															*05:11, 05:17, 05:68, 05:70, 05:79, 06:04, 08:10, 15:04, 15:30, 15:40, 15:64, 16:48, 17:01:01:01-17:01:08, 17:02-17:06, 17:08-17:15
																*05:26
	18												30			*05:27, 17:07
	18												30			*05:39
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.



101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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

Lot No.: **95R**

Lot-specific information

Length of spec.	250	95	95	150	145	160	130	70	200	125	85	150	225	80	130	250
PCR product(s)			120		240	215		280			170	230		115	190	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*06:05												w				
*06:08	1				5											
*06:81	1															
*06:89	1															
*07:02:09												12				
*08:14																16
*08:31, 16:29	1				5											
*08:37, 16:21, B*27:84												12				
*12:03:17	1	2												14		
*12:03:23	1							8								
*12:15	1					6										
*12:16	1											12				
*14:25					5							12				
*14:41				4												
*15:02:01-15:03, 15:05:01- 15:06:03, 15:09-15:10:01, 15:12- 15:13, 15:16-15:18, 15:21-15:22, 15:24, 15:26-15:29, 15:31-15:35, 15:37-15:39, 15:41-15:42, 15:44- 15:62																16
*15:07, 15:36, 15:43																16
*15:08																
*15:10:02								8								16
*15:11										10						16
*15:15																16
*15:19																16
*15:23												12				16
*15:63												12				16
*16:09																
*16:10							7									
*16:34										10			13			
B*07:113, B*08:64, B*40:192																
B*27:34, B*40:02:07, B*40:06:02				3												
B*35:01:30, B*57:03:02				w												
B*67:02																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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

Lot No.: **95R**

Lot-specific information

110	235	80	180	115	110	205	325	160	140	140	90	210	80	100	150	Length of spec. PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
	18													31		*06:05
	18															*06:08
	18										28					*06:81
	18						24									*06:89
														31		*07:02:09
														31		*08:14
																*08:31, 16:29
																*08:37, 16:21, B*27:84
17																*12:03:17
																*12:03:23
							24									*12:15
														31		*12:16
																*14:25
																*14:41
	18						24									*15:02:01-15:03, 15:05:01- 15:06:03, 15:09-15:10:01, 15:12- 15:13, 15:16-15:18, 15:21-15:22, 15:24, 15:26-15:29, 15:31-15:35, 15:37-15:39, 15:41-15:42, 15:44- 15:62
							24									*15:07, 15:36, 15:43
	18						24									*15:08
	18						24									*15:10:02
							24									*15:11
	18						24						30			*15:15
	18			21			24									*15:19
	18						24									*15:23
	18						24							31		*15:63
	18				22											*16:09
																*16:10
																*16:34
			20													B*07:113, B*08:64, B*40:192
		19														B*27:34, B*40:02:07, B*40:06:02
		w														B*35:01:30, B*57:03:02
														31		B*67:02
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.622-12 – including **Taq pol.**, IFU-01
101.622-12u– without **Taq pol.**, IFU-02

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

Lot No.: 95R**Lot-specific information**

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*02 SSP subtyping.

In addition, wells number 2, 3, 6, 7, 11, 14, 18, 25, 27 and 28 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band.

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

⁴Cw*0201 has been deleted as it was identical to C*02:02:02.

Cw*021603 has been shown to be identical to C*02:16:02.

Cw*020204 has been shown to be identical to C*02:10.

⁵HLA-C*02 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.10.0, October 2012.

⁶The C*02:15 and 02:21 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 15.

⁷The C*02:25Q and 02:30 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

⁸The C*02:37 and 02:52N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 28.

⁹Primer mix 3: Specific PCR fragment of 95 bp in the C*02:03, 02:16:02 and 02:18 and in the B*27:34, B*35:01:30^w, B*40:02:07, B*40:06:02 and B*57:03:02^w alleles. Specific PCR fragment of 120 bp in the C*02:20 and 02:31 alleles.

Primer mix 5: Specific PCR fragment of 145 bp in the C*02:22 and the C*08:31 and in the B*07:02:07 and B*27:05:15 alleles. Specific PCR fragment of 240 bp in the C*02:05 and 02:17 and the C*01:10, 06:08, 14:25 and 16:29, 16:50 alleles.

Primer mix 6: Specific PCR fragment of 160 bp in the C*02:06 and C*02:47 and the 12:15 alleles. Specific PCR fragment of 215 bp in the C*02:46 allele.

Primer mix 8: Specific PCR fragment of 70 bp in the C*02:08 and the C*03:64:01,12:03:23 and 15:10:02 alleles. Specific PCR fragment of 280 bp in the C*02:33 allele.

Primer mix 11: Specific PCR fragment of 85 bp in the C*02:18 and 02:32 alleles. Specific PCR fragment of 170 bp in the C*02:09 allele.

Primer mix 12: Specific PCR fragment of 150 bp in the C*02:11 and 02:14 and the C*04:42, 05:43, 06:05^w, 07:02:09, 08:37, 12:16, 15:23, 15:63 and 16:21 and the B*27:84 alleles. Specific PCR fragment of 230 bp in the C*02:17 and the C*14:25 alleles.

Primer mix 14: Specific PCR fragment of 80 bp in the C*02:13 allele. Specific PCR fragment of 115 bp in the C*02:43 and the C*12:03:17 alleles.

Primer mix 15: Specific PCR fragment of 130 bp in the C*02:21 allele. Specific PCR fragment of 190 bp in the C*02:15 allele.

Primer mix 17: Specific PCR fragment of 110 bp in the C*02:31 and 02:43 and the 12:03:17 alleles. Specific PCR fragment of 160 bp in the C*02:23 allele.

Primer mix 21: Specific PCR fragment of 115 bp in the C*02:30 and the C*15:19 alleles. Specific PCR fragment of 205 bp in the C*02:25Q allele.

Primer mix 23: Specific PCR fragment of 205 bp in the C*02:29 allele. Specific PCR fragment of 390 bp in the C*02:35 allele.

Primer mix 28: Specific PCR fragment of 90 bp in the C*02:52N allele. Specific PCR fragment of 220 bp in the C*02:37 and 02:46 and 06:81 alleles.

Primer mix 30: Specific PCR fragment of 80 bp in the C*02:38N allele. Specific PCR fragment of 270 bp in the C*02:58 and the C*01:35, 04:08, 04:34, 05:27, 05:39, 08:41, 12:83, 14:20, 15:15, and 17:07 and the B*58:02 alleles.

'w', might be weakly amplified.

101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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

Lot No.: **95R**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-C*02 SSP primer set																					
				Prod. No.:	Well																
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
					201071901	201071902	201071903	201071904	201071905	201184406	201071907	201071908	201071909	201071910	201071911	201071912	201201613	201184414	201071915	201071916	
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **95R**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-C*02 SSP primer set																			
			Prod. No.:	Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				201184417	201201618	201201619	201071920	201071921	201071922	201071923	201071924	201201625	201184426	201314427	201314428	201184429	201314430	201184431	201201632
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	9007 DEM	*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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



101.622-12 – including *Taq* pol., IFU-01
 101.622-12u– without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **95R**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-C*02 SSP

Product number: 101.622-12 – including *Taq* polymerase
 101.622-12u –without *Taq* polymerase
 Lot number: 95R
 Expiry date: 2015-August-01
 Number of tests: 12
 Number of wells per test: 32

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-719-01	13	2012-016-13	25	2012-016-25
2	2010-719-02	14	2011-844-14	26	2011-844-26
3	2010-719-03	15	2010-719-15	27	2013-144-27
4	2010-719-04	16	2010-719-16	28	2013-144-28
5	2010-719-05	17	2011-844-17	29	2011-844-29
6	2011-844-06	18	2012-016-18	30	2013-144-30
7	2010-719-07	19	2012-016-19	31	2011-844-31
8	2010-719-08	20	2010-719-20	32	2012-016-32
9	2010-719-09	21	2010-719-21		
10	2010-719-10	22	2010-719-22		
11	2010-719-11	23	2010-719-23		
12	2010-719-12	24	2010-719-24		

The specificity of each primer solution of the HLA-C*02 primer set has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 3 to 8, 11 to 15, 17, 19 to 23, 25 to 28 and 31 to 32 were available. The specificity of the primers in primer solutions 3, 5 to 8, 11 to 15, 17, 19, 23, 25, 26, 28 and 31 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 4, 21 and 22 it was only possible to test the 3'-primer, the 5'-primer was not possible to test. In primer solutions 20, 27 and 32 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 3, 8, 11, 13, 15, 17, 23, 26, 28 and 30 one or two of the 3'-primers were not possible to test, and in primer solutions 6, 10, 12, 15, 23 and 28 one or two 5'-primers were not possible to test.

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

Date of approval: 2013-March-20

Approved by:

Production Quality Control

101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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

Lot No.: **95R**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-C*02

Product number: 101.622-12/12u

Lot number: 95R

Intended use: HLA-C*02 high resolution histocompatibility testing

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

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2012, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex 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.

The Authorized Representative located within the Community is: *Olerup* SSP AB.

Stockholm, Sweden
2013-March-20

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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Lot No.: **95R**

Lot-specific information

101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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Lot-specific information

101.622-12 – including *Taq* pol., IFU-01
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101.622-12 – including *Taq* pol., IFU-01
101.622-12u– without *Taq* pol., IFU-02

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Lot No.: **95R**

Lot-specific information

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