

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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

Lot No.: **27R**

Lot-specific information

***Olerup SSP*[®] HLA-B*38**

Product number:	101.565-12– including <i>Taq</i> polymerase 101.565-12u – without <i>Taq</i> polymerase
Lot number:	27R
Expiry date:	2015-March-01
Number of tests:	12
Number of wells per test:	24
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. 27R.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*[®] HLA-B*38 Lot(22M)

The HLA-B*38 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

Two wells have been added to the HLA-B*38 kit, wells **23 and 24**.

The Lot-specific information for HLA-B*38 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The HLA-B*38 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*[®] HLA-B*38 lot was made (Lot No. 22M).

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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
6	-	Added	3'-primer added for the B*38:34N allele.
7	-	Added	3'-primer added for the B*38:34N allele.
10	Added	-	3'-primer added for the B*38:33 allele.
17	-	Exchanged	Exchanged 3'-primer and positive control primer pair, for decreased tendencies of primer oligomer formation.
18	Added	Exchanged	Exchanged 3'-primer, 5'-primer added for the B*38:37 allele.
23	New	New	New primer pair for the B*38:32 allele.
24	New	New	New primer pair for the B*38:36 allele.

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PRODUCT DESCRIPTION

HLA-B*38 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*38:01 to B*38:40 alleles.

PLATE LAYOUT

Each test consists of 24 PCR reactions in a 24 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

The 24 well cut PCR plate is marked with 'HLA-B*38' in silver/gray ink.

Well No. 1 is marked with the Lot No. '27R'.

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

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

Please note: When removing each 24 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

The interpretation of HLA-B*38 SSP subtypings will be influenced by most B*07, several B*08, most B*13, the B*14, most B*15, most B*18, several B*27, several B*35, the B*37, most B*39, most B*40, most B*41, several B*42, most B*44, the B*45, most B*46, the B*48, the B*49, the B*50, most B*51, the B*52, most B*53, most B*54, most B*55, most B*56, several B*57, most B*58, the B*59, the B*67, the B*78, the B*81, the B*82 and the B*83:01 alleles when present on the other haplotype. In addition, the C*02:02:07 and C*05:01:06 alleles are amplified by primer mix 8, the C*15:51 allele is amplified by primer mixes 8 and 22 and the C*15:24 allele is amplified by primer mixes 23 and 24.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*38 alleles, i.e. **B*38:01 to B*38:40**, recognized by the HLA Nomenclature Committee in July 2012¹ are amplified by the primers in the HLA-B*38 subtyping kit².

The HLA-B*38 kit enables separation of the confirmed HLA-B*38 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-B*38 alleles is listed below.

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Lot No.: 27R**Lot-specific information**

The HLA-B*38 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-B*38 subtyping kit cannot distinguish the silent mutations in the B*38:01:01 and 38:01:03 to 38:01:07 and the B*38:02:01 and B*38:02:02 alleles.

The B*38:11 and 38:19 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 16.

¹HLA-B alleles listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, www.ebi.ac.uk/imgt/hla.

²The B*38:17 and B*39:37 alleles give rise to identical amplification patterns with the HLA-B*38 primer set. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B*39 kits.

ALLELES CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*38:01:01	Confirmed	B*38:13	Confirmed	B*38:33	Confirmed
B*38:01:02	Unconfirmed	B*38:14	Unconfirmed	B*38:34N	Unconfirmed
B*38:01:03	Unconfirmed	B*38:15	Unconfirmed	B*38:35	Unconfirmed
B*38:01:04	Confirmed	B*38:16	Unconfirmed	B*38:36	Confirmed
B*38:01:05	Unconfirmed	B*38:17	Unconfirmed	B*38:37	Confirmed
B*38:01:06	Unconfirmed	B*38:18	Unconfirmed	B*38:38	Unconfirmed
B*38:01:07	Unconfirmed	B*38:19	Unconfirmed	B*38:39	Unconfirmed
B*38:02:01	Confirmed	B*38:20	Confirmed	B*38:40	Unconfirmed
B*38:02:02	Confirmed	B*38:21	Unconfirmed		
B*38:02:03	Unconfirmed	B*38:22	Unconfirmed		
B*38:03	Unconfirmed	B*38:23	Unconfirmed		
B*38:04	Unconfirmed	B*38:24	Confirmed		
B*38:05	Unconfirmed	B*38:25	Unconfirmed		
B*38:06	Confirmed	B*38:26	Unconfirmed		
B*38:07	Unconfirmed	B*38:27	Confirmed		
B*38:08	Unconfirmed	B*38:28	Unconfirmed		
B*38:09	Confirmed	B*38:29	Confirmed		
B*38:10	Unconfirmed	B*38:30	Unconfirmed		
B*38:11	Confirmed	B*38:31	Unconfirmed		
B*38:12	Confirmed	B*38:32	Confirmed		

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.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 48 alleles generate 36 amplification patterns that can be combined in 666 homozygous and heterozygous combinations. 456 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.

++++----	-----	*38:14, *38:14 = *38:14, *38:26
+++-+-	-----	*38:02:03, *38:04 = *38:02:03, *38:25 = *38:04, *38:04 = *38:04, *38:25
+++++	-----	*38:05, *38:33 = *38:33, *38:33
+++-+-	-----	*38:13, *38:14 = *38:13, *38:26
+++++	-----	*38:06, *38:07 = *38:07, *38:07
+++-+-	-----	*38:02:01, *38:02:01 = *38:02:01, *38:02:03
+++++	-----	*38:01:02, *38:36 = *38:36, *38:36
+++++	-----	*38:01:02, *38:37 = *38:37, *38:37
+++++	-----	*38:01:01, *38:01:01 = *38:01:01, *38:01:02
+++++	-----	*38:01:02, *38:22 = *38:22, *38:22
+++++	-----	*38:06, *38:16 = *38:07, *38:16
+++++	-----	*38:02:01, *38:29 = *38:02:03, *38:29
+++++	-----	*38:02:01, *38:23 = *38:02:03, *38:23 = *38:23, *38:23
+++++	-----	*38:02:01, *38:17 = *38:02:03, *38:17
+++++	-----	*38:02:01, *38:08 = *38:02:01, *38:18 = *38:02:03, *38:08 = *38:02:03, *38:18 = *38:08, *38:18 = *38:18, *38:18
+++++	-----	*38:02:01, *38:15 = *38:02:03, *38:15 = *38:15, *38:15
+++++	-----	*38:02:01, *38:04 = *38:02:01, *38:25
+++++	-----	*38:01:02, *38:30 = *38:30, *38:30 = *38:30, *38:36
+++++	-----	*38:01:01, *38:28 = *38:01:02, *38:28
+++++	-----	*38:01:01, *38:27 = *38:01:02, *38:27 = *38:27, *38:27
+++++	-----	*38:01:01, *38:24 = *38:01:01, *38:37 = *38:01:02, *38:24 = *38:24, *38:24 = *38:24, *38:37
+++++	-----	*38:01:01, *38:11 = *38:01:01, *38:17 = *38:01:02, *38:11 = *38:01:02, *38:17 = *38:11, *38:11 = *38:11, *38:17
+++++	-----	*38:01:01, *38:09 = *38:01:01, *38:14 = *38:01:01, *38:26 = *38:01:02, *38:09 = *38:01:02, *38:14 = *38:01:02, *38:26 = *38:09, *38:09 = *38:09, *38:14 = *38:09, *38:26
+++++	-----	*38:01:01, *38:13 = *38:01:02, *38:13
+++++	-----	*38:01:01, *38:12 = *38:01:01, *38:16 = *38:01:02, *38:12 = *38:01:02, *38:16 = *38:12, *38:12 = *38:12, *38:16
+++++	-----	*38:01:01, *38:06 = *38:01:02, *38:06
+++++	-----	*38:01:01, *38:05 = *38:01:01, *38:20 = *38:01:01, *38:22 = *38:01:02, *38:05 = *38:01:02, *38:20 = *38:05, *38:20 = *38:05, *38:22 = *38:20, *38:20 = *38:20, *38:22
+++++	-----	*38:05, *38:14 = *38:05, *38:26
+++++	-----	*38:01:01, *38:25 = *38:01:02, *38:25
+++++	-----	*38:01:01, *38:02:01 = *38:01:01, *38:02:03 = *38:01:02, *38:02:03 = *38:01:02, *38:02:03
+++++	-----	*38:08, *38:23 = *38:18, *38:23
+++++	-----	*38:08, *38:17 = *38:17, *38:18
+++++	-----	*38:06, *38:08 = *38:06, *38:18
+++++	-----	*38:02:01, *38:07 = *38:02:03, *38:07
+++++	-----	*38:08, *38:15 = *38:15, *38:18
+++++	-----	*38:04, *38:29 = *38:25, *38:29
+++++	-----	*38:04, *38:23 = *38:23, *38:25

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+++++--+-	-----+--	-----	*38:04, *38:08 = *38:04, *38:18 = *38:08, *38:25 = *38:18, *38
+++++--+-	-----+--	-----	*38:04, *38:15 = *38:15, *38:25
+++++--+-	-----+--	-----	*38:02:01, *38:03 = *38:02:03, *38:03 = *38:03, *38:04 = *38:(
			*38:25
+++++--+-	-----+--	-----	*38:01:02, *38:10 = *38:10, *38:10 = *38:10, *38:36
+++++--+-	-----+--	-----	*38:24, *38:28 = *38:28, *38:37
+++++--+-	-----+--	-----	*38:24, *38:27 = *38:27, *38:37
+++++--+-	-----+--	-----	*38:11, *38:36 = *38:17, *38:36
+++++--+-	-----+--	-----	*38:11, *38:28 = *38:17, *38:28
+++++--+-	-----+--	-----	*38:11, *38:27 = *38:17, *38:27
+++++--+-	-----+--	-----	*38:11, *38:24 = *38:11, *38:37 = *38:17, *38:24 = *38:17, *38
+++++--+-	-----+--	-----	*38:01:01, *38:32 = *38:01:02, *38:32 = *38:32, *38:32
+++++--+-	-----+--	-----	*38:09, *38:36 = *38:14, *38:36 = *38:26, *38:36
+++++--+-	-----+--	-----	*38:09, *38:27 = *38:14, *38:27 = *38:26, *38:27
+++++--+-	-----+--	-----	*38:09, *38:24 = *38:09, *38:37 = *38:14, *38:24 = *38:14, *38
			*38:24, *38:26 = *38:26, *38:37
+++++--+-	-----+--	-----	*38:09, *38:11 = *38:09, *38:17 = *38:11, *38:14 = *38:11, *38
			*38:14, *38:17 = *38:17, *38:26
+++++--+-	-----+--	-----	*38:13, *38:24 = *38:13, *38:37
+++++--+-	-----+--	-----	*38:11, *38:13 = *38:13, *38:17
+++++--+-	-----+--	-----	*38:12, *38:36 = *38:16, *38:36
+++++--+-	-----+--	-----	*38:12, *38:27 = *38:16, *38:27
+++++--+-	-----+--	-----	*38:12, *38:24 = *38:12, *38:37 = *38:16, *38:24 = *38:16, *38
+++++--+-	-----+--	-----	*38:11, *38:12 = *38:11, *38:16 = *38:12, *38:17 = *38:16, *38
+++++--+-	-----+--	-----	*38:09, *38:12 = *38:09, *38:16 = *38:12, *38:14 = *38:12, *38
+++++--+-	-----+--	-----	*38:06, *38:24 = *38:06, *38:37
+++++--+-	-----+--	-----	*38:06, *38:09 = *38:06, *38:14
+++++--+-	-----+--	-----	*38:01:01, *38:07 = *38:01:02, *38:07 = *38:06, *38:12 = *38:(
			*38:12
+++++--+-	-----+--	-----	*38:05, *38:36 = *38:20, *38:36
+++++--+-	-----+--	-----	*38:05, *38:28 = *38:20, *38:28 = *38:22, *38:28
+++++--+-	-----+--	-----	*38:05, *38:27 = *38:20, *38:27 = *38:22, *38:27
+++++--+-	-----+--	-----	*38:05, *38:24 = *38:05, *38:37 = *38:20, *38:24 = *38:20, *38
			*38:22, *38:24
+++++--+-	-----+--	-----	*38:05, *38:11 = *38:05, *38:17 = *38:11, *38:20 = *38:11, *38
			*38:17, *38:20 = *38:17, *38:22
+++++--+-	-----+--	-----	*38:05, *38:09 = *38:09, *38:20 = *38:09, *38:22 = *38:14, *38
			*38:14, *38:22 = *38:20, *38:26 = *38:22, *38:26
+++++--+-	-----+--	-----	*38:13, *38:20 = *38:13, *38:22
+++++--+-	-----+--	-----	*38:01:01, *38:33 = *38:01:02, *38:33 = *38:05, *38:12 = *38:(
			*38:16 = *38:12, *38:20 = *38:12, *38:22 = *38:12, *38:33 = *3
			*38:20 = *38:16, *38:22 = *38:16, *38:33 = *38:20, *38:33 = *3
			*38:33
+++++--+-	-----+--	-----	*38:14, *38:33 = *38:26, *38:33
+++++--+-	-----+--	-----	*38:06, *38:20 = *38:06, *38:22
+++++--+-	-----+--	-----	*38:24, *38:25 = *38:25, *38:37
+++++--+-	-----+--	-----	*38:09, *38:25 = *38:14, *38:25 = *38:25, *38:26
+++++--+-	-----+--	-----	*38:12, *38:25 = *38:16, *38:25
+++++--+-	-----+--	-----	*38:01:01, *38:21 = *38:01:02, *38:21 = *38:06, *38:21 = *38:(
			*38:21 = *38:21, *38:25
+++++--+-	-----+--	-----	*38:20, *38:25 = *38:22, *38:25
+++++--+-	-----+--	-----	*38:01:01, *38:34N = *38:01:02, *38:34N = *38:25, *38:34N =
			*38:34N, *38:34N
+++++--+-	-----+--	-----	*38:02:01, *38:36 = *38:02:03, *38:36
+++++--+-	-----+--	-----	*38:02:01, *38:28 = *38:02:03, *38:28
+++++--+-	-----+--	-----	*38:02:01, *38:27 = *38:02:03, *38:27

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+++++--- -++-+--+ -+-----	*38:02:01, *38:24 = *38:02:01, *38:37 = *38:02:03, *38:24 = *38:02:03, *38:37
+++++--- -++-+--+ +-----	*38:01:01, *38:23 = *38:01:02, *38:23
+++++--- -++-+--+ -----	*38:02:01, *38:11 = *38:02:03, *38:11
+++++--- -++-+--+ -----	*38:02:01, *38:09 = *38:02:01, *38:14 = *38:02:01, *38:26 = *38:02:03, *38:09 = *38:02:03, *38:14 = *38:02:03, *38:26
+++++--- -++-+--+ -----	*38:01:01, *38:08 = *38:01:01, *38:18 = *38:01:02, *38:18 = *38:02:01, *38:13 = *38:02:03, *38:13 = *38:08, *38:13 = *38:18
+++++--- -++-+--+ -----	*38:02:01, *38:12 = *38:02:01, *38:16 = *38:02:03, *38:12 = *38:02:03, *38:16
+++++--- -++-+--+ -----	*38:01:01, *38:15 = *38:01:02, *38:15 = *38:02:01, *38:05 = *38:02:01, *38:20 = *38:02:01, *38:22 = *38:02:03, *38:20 = *38:02:03, *38:22 = *38:05, *38:15 = *38:15, *38:20 = *38:15, *38:22
+++++--- -++-+--+ -----	*38:01:01, *38:04 = *38:01:02, *38:04
+++-+--- +++-+--+ -----	*38:07, *38:08 = *38:07, *38:18
+++-+--- -++-+--+ -----	*38:03, *38:08 = *38:03, *38:18
++++---- -++-+--+ -++-+--+	*38:11, *38:30 = *38:17, *38:30
++++---- -++-+--+ -++-+--+	*38:01:01, *38:10 = *38:10, *38:32 = *38:32, *38:36
++++---- -++-+--+ -++-+--+	*38:24, *38:32 = *38:32, *38:37
++++---- -++-+--+ -++-+--+	*38:11, *38:32 = *38:17, *38:32
++++---- -++-+--+ -++-+--+	*38:09, *38:30 = *38:14, *38:30 = *38:26, *38:30
++++---- -++-+--+ -++-+--+	*38:09, *38:32 = *38:14, *38:32 = *38:26, *38:32
++++---- -++-+--+ -++-+--+	*38:12, *38:30 = *38:16, *38:30
++++---- -++-+--+ -++-+--+	*38:12, *38:32 = *38:16, *38:32
++++---- +++-+--+ -++-+--+	*38:07, *38:24 = *38:07, *38:37
++++---- +++-+--+ -++-+--+	*38:07, *38:09 = *38:07, *38:14
++++---- -++-+--+ -++-+--+	*38:05, *38:30 = *38:20, *38:30
++++---- -++-+--+ -++-+--+	*38:05, *38:32 = *38:20, *38:32 = *38:22, *38:32
++++---- -++-+--+ -++-+--+	*38:24, *38:33 = *38:33, *38:37
++++---- -++-+--+ -++-+--+	*38:11, *38:33 = *38:17, *38:33
++++---- +++-+--+ -++-+--+	*38:05, *38:07 = *38:07, *38:20 = *38:07, *38:22 = *38:07, *38
++++---- -++-+--+ -++-+--+	*38:21, *38:24 = *38:21, *38:37
++++---- -++-+--+ -++-+--+	*38:11, *38:21 = *38:17, *38:21
++++---- -++-+--+ -++-+--+	*38:09, *38:21 = *38:14, *38:21 = *38:21, *38:26
++++---- +++-+--+ -++-+--+	*38:07, *38:21 = *38:12, *38:21 = *38:16, *38:21
++++---- -++-+--+ -++-+--+	*38:05, *38:21 = *38:20, *38:21 = *38:21, *38:22
++++---- -++-+--+ -++-+--+	*38:24, *38:34N = *38:34N, *38:37
++++---- -++-+--+ -++-+--+	*38:11, *38:34N = *38:17, *38:34N
++++---- -++-+--+ -++-+--+	*38:09, *38:34N = *38:14, *38:34N = *38:26, *38:34N
++++---- -++-+--+ -++-+--+	*38:12, *38:34N = *38:16, *38:34N
++++---- -++-+--+ -++-+--+	*38:06, *38:34N = *38:21, *38:34N
++++---- -++-+--+ -++-+--+	*38:05, *38:34N = *38:20, *38:34N = *38:22, *38:34N
++++---- -++-+--+ -++-+--+	*38:02:01, *38:30 = *38:02:03, *38:30
++++---- -++-+--+ -++-+--+	*38:23, *38:24 = *38:23, *38:37
++++---- -++-+--+ -++-+--+	*38:02:01, *38:32 = *38:02:03, *38:32
++++---- -++-+--+ -++-+--+	*38:09, *38:29 = *38:14, *38:29 = *38:26, *38:29
++++---- -++-+--+ -++-+--+	*38:09, *38:23 = *38:14, *38:23 = *38:23, *38:26
++++---- -++-+--+ -++-+--+	*38:08, *38:28 = *38:18, *38:28
++++---- -++-+--+ -++-+--+	*38:08, *38:27 = *38:18, *38:27
++++---- -++-+--+ -++-+--+	*38:08, *38:24 = *38:18, *38:24 = *38:18, *38:37
++++---- -++-+--+ -++-+--+	*38:08, *38:11 = *38:11, *38:18
++++---- -++-+--+ -++-+--+	*38:08, *38:09 = *38:08, *38:14 = *38:08, *38:26 = *38:09, *38
++++---- -++-+--+ -++-+--+	*38:14, *38:18 = *38:18, *38:26
++++---- -++-+--+ -++-+--+	*38:12, *38:29 = *38:16, *38:29

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 101.565-12u – without *Taq* pol., IFU-02

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+++++---	-+---+--	+-----	*38:12, *38:23 = *38:16, *38:23
+++++---	-+---+--	-----	*38:08, *38:12 = *38:08, *38:16 = *38:12, *38:18 = *38:16, *38
+++++---	-+---+--	-----	*38:05, *38:29 = *38:20, *38:29
+++++---	-+---+--	-+-----	*38:15, *38:24 = *38:15, *38:37
+++++---	-+---+--	+-----	*38:05, *38:23 = *38:20, *38:23 = *38:22, *38:23
+++++---	-+---+--	-----	*38:09, *38:15 = *38:14, *38:15 = *38:15, *38:26
+++++---	-+---+--	-----	*38:05, *38:08 = *38:05, *38:18 = *38:08, *38:20 = *38:13, *38
			*38:18, *38:20 = *38:18, *38:22
+++++---	-+---+--	-----	*38:02:01, *38:33 = *38:12, *38:15 = *38:15, *38:16 = *38:15,
			*38:33
+++++---	-+---+--	-+-----	*38:04, *38:24 = *38:04, *38:37
+++++---	-+---+--	-----	*38:04, *38:09 = *38:04, *38:14 = *38:04, *38:26
+++++---	-+---+--	-----	*38:04, *38:12 = *38:04, *38:16
+++++---	-+---+--	-----	*38:02:01, *38:21 = *38:02:03, *38:21 = *38:04, *38:21
+++++---	-+---+--	-----	*38:04, *38:20 = *38:04, *38:22
+++++---	-+---+--	-----	*38:01:01, *38:03 = *38:01:02, *38:03 = *38:02:01, *38:34N =
			*38:02:03, *38:34N = *38:03, *38:34N = *38:04, *38:34N
+++++---	-+---+--	-----	*38:10, *38:11 = *38:10, *38:17
+++++---	-+---+--	-----	*38:09, *38:10 = *38:10, *38:14 = *38:10, *38:26
+++++---	-+---+--	-----	*38:10, *38:12 = *38:10, *38:16
+++++---	-+---+--	-----	*38:05, *38:10 = *38:10, *38:20
+++++---	-+---+--	-----	*38:02:01, *38:10 = *38:02:03, *38:10
+++++---	-+---+--	-----	*38:08, *38:32 = *38:18, *38:32
+++++---	-+---+--	-----	*38:08, *38:33 = *38:18, *38:33
+++++---	-+---+--	-----	*38:08, *38:21 = *38:18, *38:21
+++++---	-+---+--	-----	*38:03, *38:24 = *38:03, *38:37
+++++---	-+---+--	-----	*38:08, *38:34N = *38:18, *38:34N
+++++---	-+---+--	-----	*38:03, *38:20 = *38:03, *38:22 = *38:15, *38:34N

*38:01:01 = **38:01:01 and 38:01:03-38:01:07 and 38:31 and 38:38-38:40

*38:02:01 = *38:02:01-38:02:02 and 38:35

*38:11 = *38:11 and 38:19

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Lot-specific information
SPECIFICITY TABLE

HLA-B*38 SSP subtyping

Specificities and sizes of the PCR products of the 24 primer mixes used for
HLA-B*38 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*38 alleles ³	Other amplified HLA-B alleles ⁴
1	185 bp	800 bp	*38:01:01-38:02:02, 38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:40	*07:02:32, 14:01:01-14:01:02, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10-39:02:01, 39:03, 39:05:01-39:09, 39:11, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:30, 39:31 ^w , 39:32-39:39:01, 39:40N-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73-39:75, 67:01:01, 67:03
2	190 bp	800 bp	*38:01:01-38:02:03, 38:04-38:12, 38:15, 38:17-38:25, 38:27, 38:29-38:40	*07:16, 07:27, 07:37-07:38, 07:50, 07:75, 07:91, 08:03, 08:23, 08:54, 14:14, 14:18, 15:03:01-15:03:03, 15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:29, 15:37, 15:47:01-15:47:02, 15:49, 15:51-15:52, 15:54, 15:62, 15:64, 15:68-15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197-15:198, 15:200, 15:210, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242-15:243, 15:251-15:253, 18:01:01:01-18:01:01:02, 18:01:03-18:02, 18:05-18:15, 18:17N-18:28, 18:30-18:76, 35:25, 35:124-35:125, 35:142, 35:162, 37:01:01-37:21, 37:23-37:34, 39:05:01-39:05:02, 39:07-39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37, 39:49, 39:55-39:56, 40:12, 40:149, 42:11, 44:130, 48:01:01-48:02:01, 48:03:01-48:28, 51:116, 52:16, 52:27, 57:58, 58:12
3	170 bp	800 bp	*38:01:01-38:02:03, 38:04-38:05, 38:08-38:15, 38:17-38:25,	*07:69, 07:85, 08:65, 14:01:01-14:20, 14:22-14:32, 15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:37, 15:51-15:52, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:114-15:115, 15:119, 15:124,

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4⁵	105 bp	1070 bp	*38:01:01-38:01:07, 38:05, 38:09-38:14, 38:16, 38:19-38:22, 38:24, 38:26-38:28, 38:30-38:34N, 38:36-38:40	*52:01:10
5	210 bp	1070 bp	*38:02:01-38:04, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35	*07:149, 08:02, 15:115, 18:09, 37:10, 44:130
6⁶	175 bp	800 bp	*38:03, 38:34N	*07:27, 07:50, 08:04, 08:17, 08:54, 15:03:01-15:03:03, 15:47:01-15:47:02, 15:54, 15:61-15:62, 15:64, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 15:251, 15:253, 18:01:01:01-18:03, 18:05-18:06, 18:08-18:15, 18:17N-18:28, 18:30-18:32, 18:34-18:76, 37:01:01-37:20, 37:23-37:25, 37:27-37:34, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:23, 39:39:01-39:39:02, 39:49, 40:12, 40:149, 42:11, 44:130, 48:01:01-48:02:01, 48:03:01-48:05, 48:07-48:28, 52:16, 52:27
7^{6,9}	160 bp, 185 bp, 205 bp	800 bp	*38:03-38:04, 38:21, 38:25, 38:34N	*08:17, 08:38, 08:54, 15:03:01-15:03:03, 15:47:01-15:47:02, 15:49, 15:54, 15:61-15:62, 15:68-15:69, 15:74, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242-15:243, 15:251, 15:253, 18:12, 37:01:01-37:07, 37:09-37:21, 37:23-37:34, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:22-39:23,

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8¹⁰	185 bp, 230 bp	800 bp	*38:05, 38:15, 38:20, 38:22, 38:33	*14:02:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:03, 14:04 ^w , 14:05-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 15:189, 35:26, 35:35, 39:04, 39:42, C*02:02:07, C*05:01:06, C*15:51
9¹¹	145 bp, 205 bp	1070 bp	*38:06-38:07, 38:21	*18:67, 37:34, 44:06, 49:03, 51:01:01- 51:24:04, 51:26-51:46, 51:48-51:53, 51:55- 51:77, 51:79-51:103, 51:105-51:111, 51:113-51:137, 52:01:01:01-52:01:12, 52:03-52:15, 52:17-52:19, 52:21-52:30, 53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:28, 58:01:01-58:02, 58:04-58:16, 58:18-58:35, 58:37
10^{5,12}	85 bp, 145 bp, 180 bp	1070 bp	*38:07, 38:12, 38:16, 38:33	*14:11, 14:28, 15:189, 35:26, 39:04, 39:19:02
11^{5,13}	90 bp, 145 bp	1070 bp	*38:08, 38:13, 38:18	
12⁵	90 bp	800 bp	*38:09, 38:14, 38:26	*07:02:32, 14:01:01-14:02:02, 14:02:04- 14:02:05, 14:02:07-14:13, 14:15-14:17, 14:19-14:20, 14:22-14:32, 15:189, 39:01:01:01-39:01:01:03, 39:01:03, 39:01:05-39:01:08, 39:01:10-39:02:01, 39:03-39:04, 39:06:01-39:06:02, 39:09, 39:12, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01, 39:24:02 ^w , 39:25N-39:26, 39:27 ^w , 39:28-39:36, 39:38Q-39:39:01, 39:40N- 39:48, 39:50-39:54, 39:57-39:62, 39:64- 39:75, 67:01:01, 67:03
13	175 bp	800 bp	*38:01:01, 38:01:03-38:07, 38:09, 38:11- 38:21, 38:23- 38:28, 38:31- 38:35, 38:38- 38:40	*08:55, 39:01:01:01-39:01:01:03, 39:01:03- 39:06:02, 39:08-39:14, 39:16, 39:18-39:20, 39:22-39:24:02, 39:26-39:28, 39:31, 39:35, 39:37-39:42, 39:44-39:46, 39:48, 39:51- 39:54, 39:56-39:73, 39:75, 40:184, 51:101, 58:20, 67:01:01-67:03
14	170 bp	1070 bp	*38:10, 38:32	*07:02:01-07:24, 07:26-07:47, 07:49N- 07:50, 07:52-07:154, 07:156-07:162, 08:20, 08:53, 08:79, 13:16, 13:20, 13:31, 13:48, 14:01:01-14:32, 15:01:01:01- 15:01:04, 15:01:06-15:04, 15:06-15:19, 15:21, 15:23-15:30, 15:32-15:40,

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15	230 bp	1070 bp	*38:01:01-38:02:03, 38:04, 38:06-38:12, 38:15-38:25, 38:27-38:32, 38:34N-38:40	*07:16, 07:27, 07:37-07:38, 07:50, 07:75, 07:91, 13:14, 14:14, 15:68, 15:71, 15:175, 18:01:01:01-18:01:01:02, 18:01:03-18:01:12, 18:01:14-18:02, 18:05-18:15, 18:17N-18:24, 18:26-18:67, 18:69, 18:71-18:76, 27:01, 27:18, 27:23, 27:29, 27:44, 27:92, 35:50, 35:84, 35:162, 35:197, 37:01:01-37:34, 39:05:01-39:05:02, 39:07-39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37, 39:49, 39:55-39:56, 40:02:01-40:06:05, 40:08-40:09, 40:11:01-40:11:02, 40:13, 40:18-40:20, 40:24, 40:26-40:29, 40:35, 40:37, 40:39-40:40, 40:44, 40:56, 40:64, 40:68, 40:70-40:71, 40:74-40:75, 40:78, 40:82-40:83, 40:85-40:86, 40:89-40:91, 40:93-40:99, 40:103-40:105, 40:107, 40:109, 40:111, 40:115, 40:119-40:120, 40:122, 40:127, 40:131, 40:133Q, 40:142N-40:145, 40:148-40:149, 40:157, 40:159, 40:161-40:162, 40:165, 40:167, 40:169, 40:173-40:174, 40:176-40:177, 40:180-40:181, 40:184, 40:189-40:190, 40:200-40:203, 40:205-40:206, 40:209-40:211, 40:214, 42:11, 44:103, 44:130-44:131, 48:01:01-48:21, 48:23-48:28, 51:57, 51:103, 51:116, 53:21, 57:10
16¹⁴	220 bp, 350 bp, 425 bp	1070 bp	*38:11, 38:17, 38:19	*07:13, 07:27, 07:110, 08:55, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 40:188 [?] , 67:02
17	150 bp	800 bp	*38:23	*39:73
18⁷	160 bp	1070 bp	*38:24, 38:37	
19^{6,8}	140 bp	1070 bp	*38:27	
20	265 bp	1070 bp	*38:28	*07:56:01-07:56:02, 07:72, 08:26, 08:56, 39:63, 40:21 [?] , 40:58 [?] , 40:137 [?] , 41:12, 49:03
21⁵	115 bp	1070 bp	*38:30	*08:49, 08:71, 13:46, 15:51, 15:83, 15:179, 15:199, 15:218Q, 18:56, 27:47, 35:38, 35:115, 35:169, 37:01:01-37:01:08, 37:03N-37:06, 37:08, 37:10-37:11, 37:13-37:34, 42:10, 42:17, 44:02:01:01-44:02:25, 44:05:01-44:06, 44:08-44:09, 44:11-44:12, 44:14-44:25, 44:27:01-44:27:02, 44:33-44:34, 44:41:01-44:42, 44:44, 44:48-44:49, 44:51-44:52N, 44:55, 44:58N-44:59, 44:62-44:63, 44:66-44:68, 44:70-44:73, 44:75,

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22	175 bp	1070 bp	*38:29	*15:69, 15:186, 35:35, 39:07, 39:15, 39:29, 39:49, 39:55, C*15:51
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35:182^w-35:184^w, 35:201, 37:12, 39:30,
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40:01:09-40:02:09, 40:02:11-40:02:15,
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58:08:01-58:08:02, 58:27-58:28,
59:01:01:01-59:05, 78:01:01-78:07, 81:01-
81:05, 82:01-82:03, **C*15:24**

¹ Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B*38 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.

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.

² The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells. Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*38 subtyping. In addition, wells number 2, 3, 6 to 8, 12, 13 and 17 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.

³ For some HLA-B alleles complete 2nd exon nucleotide sequences, nucleotide sequences from the 1st exon, the 4th exon 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.

⁴ Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B*38 alleles will be amplified by primer mixes 1 to 10, 12 to 7 and 20 to 24. In addition, the C*02:02:07 and C*05:01:06 alleles are amplified by primer mix 8, the C*15:51 allele is amplified by primer mixes 8 and 22 and the C*15:24 allele is amplified by primer mixes 23 and 24.

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

⁶ Primer mixes 6, 7, 19 and 23 may have tendencies of primer oligomer formation.

⁷ Primer mixes 18 may have tendencies of unspecific amplifications.

⁸ Primer mix 19 may give rise to a lower yield of HLA-specific PCR product than the other B*38 primer mixes.

⁹ Primer mix 7: Specific PCR fragment of 160 bp in the B*38:03:38:04 and 38:25 and the B*08:17, 08:38, 08:54, 15:03:01-15:03:03, 15:47:01-15:47:02, 15:49, 15:54, 15:61-15:62, 15:68-15:69, 15:74, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242-15:243, 15:251, 15:253, 18:12, 37:01:01-37:07, 37:09-37:21, 37:23-37:34, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:22-39:23, 39:49, 40:12, 40:149, 42:11, 44:130, 48:01:01-48:02:01, 48:03:01-48:05, 48:07-48:15, 48:17-48:28, 52:16 and 52:27 alleles. Specific PCR fragment of 185 bp in the B*38:34N allele. Specific PCR fragment of 205 bp in the B*38:21 allele.

¹⁰ Primer mix 8: Specific PCR fragment of 185 bp in the B*38:05 and 38:33 and the B*14:02:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:03, 14:04w, 14:05-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 15:189, 35:26, 39:04 and in the

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C*02:02:07 and C*05:01:06 alleles. Specific PCR fragment of 230 bp in the B*38:15, 38:20 and 38:22 and in the B*35:35 and 39:42 and the C*15:51 alleles.

¹¹Primer mix 9: Specific PCR fragment of 145 bp in the B*38:06-38:07 and the B*18:67, 37:34, 44:06, 49:03, 51:01:01-51:24:04, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:103, 51:105-51:111, 51:113-51:137, 52:01:01:01-52:01:12, 52:03-52:15, 52:17-52:19, 52:21-52:30, 53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:28, 58:01:01-58:02, 58:04-58:16, 58:18-58:35 and 58:37 alleles. Specific PCR fragment of 205 bp in the B*38:21 allele.

¹²Primer mix 10: Specific PCR fragment of 85 bp in the B*38:07 and 38:12 and in the B*39:19:02 alleles. Specific PCR fragment of 145 bp in the B*38:16 allele. Specific PCR fragment of 180 bp in the B*38:33 and the B*14:11, 14:28, 15:189, 35:26 and 39:04 alleles.

¹³Primer mix 11: Specific PCR fragment of 90 bp in the B*38:13 allele. Specific PCR fragment of 145 bp in the B*38:08 and 38:18 alleles.

¹⁴Primer mix 16: Specific PCR fragment of 220 bp in the B*38:19 and the B*08:55, 39:03, 39:14, 39:24:01-39:24:02, 39:29 and 39:37 alleles. Specific PCR fragment of 350 bp in the B*38:11 and the B*07:13, 07:110 and 67:02 alleles. Specific PCR fragment of 425 bp in the B*38:17 and the B*07:27 and 40:188[?] alleles.

‘w’, might be weakly amplified.

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

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INTERPRETATION TABLE												
HLA-B*38 SSP subtyping												
Amplification patterns of the B*38:01 to 38:40 alleles												
	Well ⁷											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	185	190	170	105	210	175	160	185	205	145	85	90
PCR product(s)							185	230	205	145	145	90
							205			180		
Length of int. pos. control ¹	800	800	800	1070	1070	800	800	800	1070	1070	1070	800
5'-primer(s) ²	103	142	142	246	142	142	142	103	206	106	246	246
	5' - CCT 3'	5' - TCT 3'	5' - TCT 3'	5' - gAA 3'	5' - TCT 3'	5' - TCT 3'	5' - TCT 3'	5' - CCg 3'	5' - gAC 3'	5' - CCA 3'	5' - gAA 3'	5' - gAA 3'
							382	346	382	142	463	483
							5' - TgC 3'	5' - ggC 3'	5' - TgC 3'	5' - TCA 3'	5' - TgA 3'	5' - gAg 3'
								355		193	660	
								5' - TCA 3'		5' - CCA 3'	5' - gAA 3'	
								363		206		
								5' - AAT 3'		5' - gAC 3'		
3'-primer(s) ³	246	292	272	309	309	272	259	246	309	246	296	292
	5' - TAT 3'	5' - gTA 3'	5' - TgC 3'	5' - ATC 3'	5' - gTg 3'	5' - Tgg 3'	5' - CTC 3'	5' - TAT 3'	5' - ATC 3'	5' - TAT 3'	5' - CTA 3'	5' - gTC 3'
	246	292				286	286	544	544		559	292
	5' - TAT 3'	5' - gTA 3'				5' - CTA 3'	5' - CTA 3'	5' - ggT 3'	5' - ggT 3'		5' - CAT 3'	5' - gTC 3'
		292					544				774	544
		5' - gTA 3'				5' - ggT 3'					5' - ggT 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-B allele ⁴												
*38:01:01 , 38:01:03-38:01:07, 38:31, 38:38-38:40	1	2	3	4								
*38:01:02	1	2	3	4								
*38:02:01-38:02:02 , 38:35	1	2	3		5							
*38:02:03		2	3		5							
*38:03	1				5	6	7					
*38:04		2	3		5		7					
*38:05		2	3	4				8				
*38:06		2							9			
*38:07	1	2							9	10		
*38:08	1	2	3		5						11	
*38:09	1	2	3	4								12
*38:10	1	2	3	4								
*38:11 , 38:19 ⁵	1	2	3	4								
*38:12	1	2	3	4					10			
*38:13	1		3	4							11	
*38:14	1		3	4								12
*38:15	1	2	3		5			8				
*38:16	1			4					10			
*38:17 , 39:37 ⁶	1	2	3									
*38:18	1	2	3		5						11	
*38:20	1	2	3	4				8				
*38:21	1	2	3	4			7		9			
*38:22	1	2	3	4				8				
*38:23	1	2	3		5							
*38:24	1	2	3	4								
*38:25		2	3				7					
*38:26	1			4								12
*38:27	1	2	3	4								
*38:28	1			4								
*38:29	1	2	3		5							
*38:30	1	2	3	4								
*38:32	1	2	3	4								
*38:33		2	3	4				8		10		
*38:34N	1	2	3	4		6	7					
*38:36	1	2	3	4								
*38:37	1	2	3	4								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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175	170	230	220	150	160	140	265	115	175	155	175	Length of spec. PCR product(s)
			350									
			425									
13	14	15	16	17	18	19	20	21	22	23	24	Well No. HLA-B allele ⁴
13		15										*38:01:01, 38:01:03-38:01:07, 38:31, 38:38-38:40
		15										*38:01:02
13		15										*38:02:01-38:02:02, 38:35
13		15										*38:02:03
13												*38:03
13		15										*38:04
13												*38:05
13		15										*38:06
13		15										*38:07
		15										*38:08
13		15										*38:09
	14	15							23	24		*38:10
13		15	16									*38:11, 38:19 ⁵
13		15										*38:12
13												*38:13
13												*38:14
13		15										*38:15
13		15										*38:16
13		15	16									*38:17, 39:37 ⁶
13		15										*38:18
13		15										*38:20
13		15										*38:21
		15										*38:22
13		15		17								*38:23
13		15			18							*38:24
13		15										*38:25
13												*38:26
13		15				19						*38:27
13		15					20					*38:28
		15							22			*38:29
		15						21			24	*38:30
13	14	15								23		*38:32
13												*38:33
13		15										*38:34N
		15									24	*38:36
		15			18							*38:37
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

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Lot No.: **27R**

Lot-specific information

Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:02:01-07:02:31, 07:02:33-07:04, 07:07-07:12, 07:14-07:15, 07:17-07:24, 07:26, 07:28-07:31, 07:33, 07:35-07:36, 07:39, 07:41-07:47, 07:49N, 07:52, 07:54-07:55, 07:57-07:68:03, 07:70-07:71, 07:73-07:74, 07:76-07:77, 07:79, 07:81-07:84, 07:86-07:89, 07:92-07:96:02, 07:98-07:104, 07:106-07:109, 07:111N, 07:113-07:122, 07:124-07:136, 07:139, 07:141-07:148, 07:150-07:154, 07:156-07:162, 14:21, 15:01:01:01-15:01:04, 15:01:06-15:02:06, 15:04, 15:06-15:08, 15:11:01-15:17:02, 15:19, 15:21, 15:24-15:28, 15:32-15:36, 15:38:01-15:40, 15:43-15:46, 15:50, 15:53, 15:56-15:57, 15:60, 15:63, 15:65-15:67, 15:70, 15:76-15:79N, 15:81-15:82, 15:85, 15:87, 15:89, 15:92, 15:94N-15:97, 15:101-15:102, 15:104, 15:106, 15:109-15:110, 15:112-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137-15:144, 15:146-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:172, 15:174, 15:177-15:178, 15:180-15:184, 15:187, 15:190N-15:196, 15:201-15:209N, 15:211-15:217, 15:219, 15:223, 15:225, 15:227-15:228, 15:230-15:234, 15:236, 15:239-15:241, 15:244-15:249, 15:254, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:21, 27:25, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 27:79, 27:86, 27:91, 35:11:01-35:11:02, 35:14:01-35:14:02, 35:21, 35:43:01, 35:58, 35:67, 35:79, 35:86, 35:96, 35:99, 35:102, 35:117-35:118, 35:135, 35:167, 35:185, 35:188, 40:32, 44:76, 44:79, 44:146, 44:150, 46:01:01-46:05, 46:07N-46:08, 46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:27-46:32, 46:34, 49:01:01-49:02, 49:04-49:10, 49:12-49:22, 50:01:01-50:02, 50:04-50:17, 54:06, 55:14, 56:03, 56:32, 57:13, 57:22												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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Lot No.: **27R**

Lot-specific information

175	170	230	220	150	160	140	265	115	175	155	175	Length of spec.
			350									PCR product(s)
			425									
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14											*07:02:01-07:02:31, 07:02:33-07:04, 07:07-07:12, 07:14-07:15, 07:17-07:24, 07:26, 07:28-07:31, 07:33, 07:35-07:36, 07:39, 07:41-07:47, 07:49N, 07:52, 07:54-07:55, 07:57-07:68:03, 07:70-07:71, 07:73-07:74, 07:76-07:77, 07:79, 07:81-07:84, 07:86-07:89, 07:92-07:96:02, 07:98-07:104, 07:106- 07:109, 07:111N, 07:113-07:122, 07:124-07:136, 07:139, 07:141-07:148, 07:150-07:154, 07:156- 07:162, 14:21, 15:01:01:01-15:01:04, 15:01:06- 15:02:06, 15:04, 15:06-15:08, 15:11:01-15:17:02, 15:19, 15:21, 15:24-15:28, 15:32-15:36, 15:38:01- 15:40, 15:43-15:46, 15:50, 15:53, 15:56-15:57, 15:60, 15:63, 15:65-15:67, 15:70, 15:76-15:79N, 15:81-15:82, 15:85, 15:87, 15:89, 15:92, 15:94N- 15:97, 15:101-15:102, 15:104, 15:106, 15:109- 15:110, 15:112-15:113, 15:116-15:118, 15:120- 15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137-15:144, 15:146-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:172, 15:174, 15:177-15:178, 15:180-15:184, 15:187, 15:190N- 15:196, 15:201-15:209N, 15:211-15:217, 15:219, 15:223, 15:225, 15:227-15:228, 15:230-15:234, 15:236, 15:239-15:241, 15:244-15:249, 15:254, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:21, 27:25, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 27:79, 27:86, 27:91, 35:11:01-35:11:02, 35:14:01- 35:14:02, 35:21, 35:43:01, 35:58, 35:67, 35:79, 35:86, 35:96, 35:99, 35:102, 35:117-35:118, 35:135, 35:167, 35:185, 35:188, 40:32, 44:76, 44:79, 44:146, 44:150, 46:01:01-46:05, 46:07N- 46:08, 46:10, 46:12, 46:14-46:17, 46:20, 46:22- 46:24, 46:27-46:32, 46:34, 49:01:01-49:02, 49:04- 49:10, 49:12-49:22, 50:01:01-50:02, 50:04-50:17, 54:06, 55:14, 56:03, 56:32, 57:13, 57:22
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.565-12– including *Taq* pol., IFU-01
 101.565-12u – without *Taq* pol., IFU-02

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

Lot No.: **27R**

Lot-specific information

Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:02:32	1											12
*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 08:20, 08:79, 13:16, 13:20, 13:48, 15:42, 27:20, 27:24, 40:15-40:16, 40:23, 40:51, 40:158, 40:183, 40:198, 51:78:01-51:78:02, 51:104, 51:112, 52:02, 52:20, 54:20, 55:01:01-55:01:09, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:53, 56:05:01-56:06, 56:21, 56:25, 57:57, 78:01:01-78:03, 78:05-78:07												
*07:13, 07:110												
*07:16, 07:37-07:38, 07:75, 07:91		2										
*07:27		2				6						
*07:50, 18:15, 18:19, 18:21, 18:30, 18:57		2				6						
*07:56:01-07:56:02, 07:72												
*07:69			3									
*07:85, 14:02:03, 14:02:06			3									
*07:149					5							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.565-12– including *Taq* pol., IFU-01
 101.565-12u – without *Taq* pol., IFU-02

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

Lot No.: **27R**

Lot-specific information

175	170	230	220	150	160	140	265	115	175	155	175	Length of spec.
			350									PCR product(s)
			425									
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14											*07:02:32
	14									23	24	*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 08:20, 08:79, 13:16, 13:20, 13:48, 15:42, 27:20, 27:24, 40:15-40:16, 40:23, 40:51, 40:158, 40:183, 40:198, 51:78:01-51:78:02, 51:104, 51:112, 52:02, 52:20, 54:20, 55:01:01-55:01:09, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:53, 56:05:01-56:06, 56:21, 56:25, 57:57, 78:01:01-78:03, 78:05-78:07
	14		16									*07:13, 07:110
	14	15										*07:16, 07:37-07:38, 07:75, 07:91
	14	15	16									*07:27
	14	15										*07:50, 18:15, 18:19, 18:21, 18:30, 18:57
	14						20					*07:56:01-07:56:02, 07:72
	14									23	24	*07:69
	14											*07:85, 14:02:03, 14:02:06
	14											*07:149
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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

Lot No.: **27R**

Lot-specific information

Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*08:01:01-08:01:17, 08:05, 08:08N-08:13, 08:15-08:16, 08:18-08:19N, 08:21-08:22, 08:24-08:25, 08:27, 08:29-08:36, 08:39-08:48, 08:50-08:52, 08:57-08:64, 08:66-08:70, 08:72N-08:73, 08:75-08:78, 08:80-08:86N, 08:88, 08:90-08:94, 13:01:01-13:01:02, 13:01:04-13:03, 13:06-13:07N, 13:09, 13:11-13:13, 13:15, 13:17-13:19, 13:21-13:23, 13:25, 13:27-13:30, 13:32-13:33, 13:36-13:45, 13:47, 13:49N-13:50, 13:52-13:58, 15:86, 15:188, 15:224, 27:07:01-27:07:02, 27:11, 27:27, 27:33, 27:43, 35:04:01-35:04:03, 35:06, 35:09:01-35:09:03, 35:12:01-35:12:03, 35:18, 35:22, 35:31, 35:59-35:60, 35:87-35:88, 35:149, 35:201, 40:01:01-40:01:07, 40:01:09-40:01:25, 40:07, 40:10:01-40:10:02, 40:14:01-40:14:03, 40:22N, 40:25, 40:30, 40:34, 40:36, 40:38, 40:43, 40:45-40:50, 40:53-40:55, 40:57, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:110, 40:112-40:114, 40:116-40:118N, 40:121, 40:123, 40:125-40:126, 40:128-40:130, 40:132, 40:134-40:136, 40:138-40:141, 40:146-40:147, 40:150-40:156, 40:160, 40:163-40:164, 40:166, 40:168, 40:170-40:171, 40:175, 40:178-40:179, 40:182, 40:185-40:186, 40:191-40:197, 40:199, 40:204, 40:207-40:208, 40:212-40:213, 40:215, 41:01-41:03:02, 41:05-41:09, 41:11, 41:13-41:17, 41:19-41:20, 42:01:01-42:02, 42:04-42:08, 42:12-42:15, 44:10, 44:31, 44:77, 44:82, 46:11, 46:18, 51:54, 54:01:01-54:05N, 54:07-54:08N, 54:10-54:13, 54:17-54:19, 54:21-54:27, 55:02:01-55:02:06, 55:04, 55:07-55:08, 55:10, 55:12-55:13, 55:16, 55:18-55:20, 55:22, 55:26, 55:30, 55:32, 55:34-55:35, 55:37, 55:39, 55:42-55:43, 55:47-55:51, 56:01:01-56:02, 56:04, 56:07-56:08, 56:10, 56:12, 56:14-56:17, 56:19N-56:20:02, 56:22-56:24, 56:26-56:30, 56:33-56:36, 57:02:01-57:03:02, 57:07, 57:12, 57:17, 57:28N, 57:39, 57:42, 57:46, 59:01:01-59:05, 78:04, 81:01-81:05												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: 27R

Lot-specific information

Lot No. 2777				Lot Specific Information								Length of spec. PCR product(s)			
175	170	230	220	150	160	140	265	115	175	155	175				
			350												
			425												
13	14	15	16	17	18	19	20	21	22	23	24	Well No.			
												*08:01:01-08:01:17, 08:05, 08:08N-08:13, 08:15-08:16, 08:18-08:19N, 08:21-08:22, 08:24-08:25, 08:27, 08:29-08:36, 08:39-08:48, 08:50-08:52, 08:57-08:64, 08:66-08:70, 08:72N-08:73, 08:75-08:78, 08:80-08:86N, 08:88, 08:90-08:94, 13:01:01-13:01:02, 13:01:04-13:03, 13:06-13:07N, 13:09, 13:11-13:13, 13:15, 13:17-13:19, 13:21-13:23, 13:25, 13:27-13:30, 13:32-13:33, 13:36-13:45, 13:47, 13:49N-13:50, 13:52-13:58, 15:86, 15:188, 15:224, 27:07:01-27:07:02, 27:11, 27:27, 27:33, 27:43, 35:04:01-35:04:03, 35:06, 35:09:01-35:09:03, 35:12:01-35:12:03, 35:18, 35:22, 35:31, 35:59-35:60, 35:87-35:88, 35:149, 35:201, 40:01:01-40:01:07, 40:01:09-40:01:25, 40:07, 40:10:01-40:10:02, 40:14:01-40:14:03, 40:22N, 40:25, 40:30, 40:34, 40:36, 40:38, 40:43, 40:45-40:50, 40:53-40:55, 40:57, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:110, 40:112-40:114, 40:116-40:118N, 40:121, 40:123, 40:125-40:126, 40:128-40:130, 40:132, 40:134-40:136, 40:138-40:141, 40:146-40:147, 40:150-40:156, 40:160, 40:163-40:164, 40:166, 40:168, 40:170-40:171, 40:175, 40:178-40:179, 40:182, 40:185-40:186, 40:191-40:197, 40:199, 40:204, 40:207-40:208, 40:212-40:213, 40:215, 41:01-41:03:02, 41:05-41:09, 41:11, 41:13-41:17, 41:19-41:20, 42:01:01-42:02, 42:04-42:08, 42:12-42:15, 44:10, 44:31, 44:77, 44:82, 46:11, 46:18, 51:54, 54:01:01-54:05N, 54:07-54:08N, 54:10-54:13, 54:17-54:19, 54:21-54:27, 55:02:01-55:02:06, 55:04, 55:07-55:08, 55:10, 55:12-55:13, 55:16, 55:18-55:20, 55:22, 55:26, 55:30, 55:32, 55:34-55:35, 55:37, 55:39, 55:42-55:43, 55:47-55:51, 56:01:01-56:02, 56:04, 56:07-56:08, 56:10, 56:12, 56:14-56:17, 56:19N-56:20:02, 56:22-56:24, 56:26-56:30, 56:33-56:36, 57:02:01-57:03:02, 57:07, 57:12, 57:17, 57:28N, 57:39, 57:42, 57:46, 59:01:01:01-59:05, 78:04, 81:01-81:05			
13	14	15	16	17	18	19	20	21	22	23	24	Well No.			

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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

Lot No.: **27R**

Lot-specific information

Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*08:02					5							
*08:03, 08:23		2										
*08:04						6						
*08:17						6	7					
*08:26, 08:56, 41:12												
*08:38							7					
*08:49, 13:46, 15:179, 15:218Q, 27:47, 35:38, 35:115, 35:169, 44:02:01:01-44:02:25, 44:05:01-44:05:04, 44:08-44:09, 44:11-44:12, 44:15-44:25, 44:27:01-44:27:02, 44:33-44:34, 44:41:01-44:42, 44:44, 44:48-44:49, 44:51-44:52N, 44:55, 44:58N-44:59, 44:63, 44:66-44:68, 44:70-44:73, 44:75, 44:78, 44:80, 44:83-44:84, 44:86-44:91, 44:93, 44:95, 44:97, 44:99-44:102, 44:104, 44:106, 44:112-44:113, 44:116-44:119, 44:123, 44:126:01-44:127, 44:132-44:134, 44:136-44:140, 44:142Q, 44:145, 44:148-44:149N, 44:151-44:152, 45:01-45:13, 57:24, 83:01												
*08:53												
*08:54, 40:12, 48:22		2				6	7					
*08:55, 67:02												
*08:65			3									
*08:71, 15:83, 42:10, 42:17, 44:14, 44:62, 45:14, 56:13, 82:01-82:03												
*13:14, 40:02:01-40:02:09, 40:02:11-40:02:15, 40:04, 40:06:01:01-40:06:05, 40:08, 40:11:01-40:11:02, 40:13, 40:19, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:39-40:40, 40:56, 40:64, 40:68, 40:70-40:71, 40:74-40:75, 40:78, 40:82-40:83, 40:85-40:86, 40:91, 40:93-40:94, 40:96-40:97, 40:99, 40:103-40:105, 40:107, 40:109, 40:111, 40:115, 40:119, 40:122, 40:127, 40:133Q, 40:142N-40:145, 40:157, 40:162, 40:165, 40:167, 40:169, 40:173, 40:176-40:177, 40:181, 40:189-40:190, 40:200-40:203, 40:205-40:206, 40:209-40:211, 40:214												
*13:31, 15:30, 15:58, 15:73, 15:150, 35:44, 55:21												
*14:01:01-14:01:02, 14:07N-14:08, 14:10, 14:12, 14:19, 14:26, 14:32	1		3									12
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.565-12– including *Taq* pol., IFU-01
 101.565-12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **27R**

Lot-specific information

175	170	230	220	150	160	140	265	115	175	155	175	Length of spec.
			350									PCR product(s)
			425									
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
											24	*08:02
											24	*08:03, 08:23
											24	*08:04
											24	*08:17
							20				24	*08:26, 08:56, 41:12
											24	*08:38
								21				*08:49, 13:46, 15:179, 15:218Q, 27:47, 35:38, 35:115, 35:169, 44:02:01:01-44:02:25, 44:05:01- 44:05:04, 44:08-44:09, 44:11-44:12, 44:15-44:25, 44:27:01-44:27:02, 44:33-44:34, 44:41:01-44:42, 44:44, 44:48-44:49, 44:51-44:52N, 44:55, 44:58N- 44:59, 44:63, 44:66-44:68, 44:70-44:73, 44:75, 44:78, 44:80, 44:83-44:84, 44:86-44:91, 44:93, 44:95, 44:97, 44:99-44:102, 44:104, 44:106, 44:112- 44:113, 44:116-44:119, 44:123, 44:126:01-44:127, 44:132-44:134, 44:136-44:140, 44:142Q, 44:145, 44:148-44:149N, 44:151-44:152, 45:01-45:13, 57:24, 83:01
	14										24	*08:53
											24	*08:54, 40:12, 48:22
13			16									*08:55, 67:02
											24	*08:65
								21			24	*08:71, 15:83, 42:10, 42:17, 44:14, 44:62, 45:14, 56:13, 82:01-82:03
			15								24	*13:14, 40:02:01-40:02:09, 40:02:11-40:02:15, 40:04, 40:06:01:01-40:06:05, 40:08, 40:11:01- 40:11:02, 40:13, 40:19, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:39-40:40, 40:56, 40:64, 40:68, 40:70-40:71, 40:74-40:75, 40:78, 40:82-40:83, 40:85-40:86, 40:91, 40:93-40:94, 40:96-40:97, 40:99, 40:103-40:105, 40:107, 40:109, 40:111, 40:115, 40:119, 40:122, 40:127, 40:133Q, 40:142N- 40:145, 40:157, 40:162, 40:165, 40:167, 40:169, 40:173, 40:176-40:177, 40:181, 40:189-40:190, 40:200-40:203, 40:205-40:206, 40:209-40:211, 40:214
	14									w	24	*13:31, 15:30, 15:58, 15:73, 15:150, 35:44, 55:21
	14											*14:01:01-14:01:02, 14:07N-14:08, 14:10, 14:12, 14:19, 14:26, 14:32
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **27R**

Lot-specific information

Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*14:02:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:03, 14:05-14:06:02, 14:09, 14:15-14:17, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31			3					8				12
*14:04			3					w				12
*14:11			3					8		10		12
*14:13			3					8				12
*14:14	1	2	3									
*14:18		2	3					8				
*14:24			3									12
*14:28			3							10		12
*15:03:01-15:03:03, 15:47:01-15:47:02, 15:54, 15:62, 15:98, 15:103, 15:127, 15:131-15:132, 15:156, 15:158, 15:173, 15:210, 15:220, 15:242, 15:251, 15:253		2				6	7					
*15:09, 15:229, 15:252		2	3									
*15:10:01-15:10:02, 15:18:01-15:18:04, 15:23, 15:37, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:119, 15:133-15:134, 15:153, 15:161, 15:197-15:198, 15:221, 15:226N, 15:238		2	3									
*15:29		2										
*15:49, 15:74		2					7					
*15:51		2	3									
*15:52, 15:114, 15:124, 15:176, 15:200		2	3									
*15:61						6	7					
*15:64		2				6						
*15:68, 37:07, 48:08, 48:25		2				6	7					
*15:69		2				6	7					
*15:71, 15:175, 27:18, 27:92, 40:98												
*15:91, 15:123, 15:151, 15:235		2				6	7					
*15:115		2	3		5							
*15:186		2	3									
*15:189								8		10		12
*15:199												
*15:243		2	3				7					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.565-12– including *Taq* pol., IFU-01
 101.565-12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **27R**

Lot-specific information

175	170	230	220	150	160	140	265	115	175	155	175	Length of spec.
			350									PCR product(s)
			425									
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14											*14:02:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:03, 14:05-14:06:02, 14:09, 14:15-14:17, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31
	14											*14:04
	14											*14:11
	14									23	24	*14:13
	14	15										*14:14
	14											*14:18
	14											*14:24
	14											*14:28
	14											*15:03:01-15:03:03, 15:47:01-15:47:02, 15:54, 15:62, 15:98, 15:103, 15:127, 15:131-15:132, 15:156, 15:158, 15:173, 15:210, 15:220, 15:242, 15:251, 15:253
	14									23	24	*15:09, 15:229, 15:252
	14											*15:10:01-15:10:02, 15:18:01-15:18:04, 15:23, 15:37, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:119, 15:133-15:134, 15:153, 15:161, 15:197-15:198, 15:221, 15:226N, 15:238
	14											*15:29
	14											*15:49, 15:74
								21				*15:51
												*15:52, 15:114, 15:124, 15:176, 15:200
	14											*15:61
	14											*15:64
	14	15										*15:68, 37:07, 48:08, 48:25
	14								22			*15:69
	14	15										*15:71, 15:175, 27:18, 27:92, 40:98
												*15:91, 15:123, 15:151, 15:235
	14											*15:115
									22			*15:186
	14											*15:189
	14							21				*15:199
	14									23	24	*15:243
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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

Lot No.: **27R**

Lot-specific information

Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*18:01:01:01-18:01:01:02, 18:01:03-18:01:12, 18:01:14-18:02, 18:05-18:06, 18:08, 18:10-18:11, 18:13-18:14, 18:17N-18:18, 18:20, 18:22-18:24, 18:27-18:28, 18:31-18:32, 18:34-18:55, 18:58- 18:60, 18:62-18:66, 18:69, 18:71-18:76		2				6						
*18:01:02, 18:03						6						
*18:01:13, 18:25, 18:68, 18:70		2				6						
*18:07:01-18:07:02		2										
*18:09		2			5	6						
*18:12, 37:02, 37:09, 48:02:01, 48:17, 48:23, 48:26		2				6	7					
*18:26, 18:61, 48:16		2				6						
*18:29, 27:01, 27:23, 27:29, 27:44, 35:50, 35:84, 35:197, 40:02:10, 40:03, 40:09, 40:18, 40:20, 40:24, 40:44, 40:89-40:90, 40:120, 40:131, 40:159, 40:180, 44:103, 48:02:02, 57:10												
*18:33		2	3									
*18:56, 37:08		2				6						
*18:67		2				6			9			
*35:02:01-35:02:04, 35:81, 35:83, 35:95, 35:129N, 35:154, 35:157, 35:172, 35:182-35:184												
*35:25, 35:124-35:125, 35:142, 57:58		2										
*35:26								8		10		
*35:35, C*15:51								8				
*35:162		2										
*37:01:01-37:01:08, 37:03N-37:06, 37:11, 37:14- 37:20, 37:23-37:25, 37:27-37:33N		2				6	7					
*37:10		2			5	6	7					
*37:12, 40:149, 42:11, 48:01:01-48:01:03, 48:03:01- 48:04, 48:07, 48:09-48:14, 48:18-48:21, 48:24, 48:27-48:28		2				6	7					
*37:13		2				6	7					
*37:21, 37:26		2					7					
*37:22, 44:131												
*37:34		2				6	7		9			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **27R**

Lot-specific information

175	170	230	220	150	160	140	265	115	175	155	175	Length of spec.
			350									PCR product(s)
			425									
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
		15										*18:01:01:01-18:01:01:02, 18:01:03-18:01:12, 18:01:14-18:02, 18:05-18:06, 18:08, 18:10-18:11, 18:13-18:14, 18:17N-18:18, 18:20, 18:22-18:24, 18:27-18:28, 18:31-18:32, 18:34-18:55, 18:58- 18:60, 18:62-18:66, 18:69, 18:71-18:76
												*18:01:02, 18:03
												*18:01:13, 18:25, 18:68, 18:70
		15										*18:07:01-18:07:02
		15										*18:09
		15										*18:12, 37:02, 37:09, 48:02:01, 48:17, 48:23, 48:26
		15								24		*18:26, 18:61, 48:16
		15										*18:29, 27:01, 27:23, 27:29, 27:44, 35:50, 35:84, 35:197, 40:02:10, 40:03, 40:09, 40:18, 40:20, 40:24, 40:44, 40:89-40:90, 40:120, 40:131, 40:159, 40:180, 44:103, 48:02:02, 57:10
		15										*18:33
		15						21				*18:56, 37:08
		15										*18:67
										w		*35:02:01-35:02:04, 35:81, 35:83, 35:95, 35:129N, 35:154, 35:157, 35:172, 35:182-35:184
												*35:25, 35:124-35:125, 35:142, 57:58
												*35:26
								22				*35:35, C*15:51
		15								w		*35:162
		15						21				*37:01:01-37:01:08, 37:03N-37:06, 37:11, 37:14- 37:20, 37:23-37:25, 37:27-37:33N
		15						21				*37:10
		15								24		*37:12, 40:149, 42:11, 48:01:01-48:01:03, 48:03:01- 48:04, 48:07, 48:09-48:14, 48:18-48:21, 48:24, 48:27-48:28
	14	15						21				*37:13
		15						21				*37:21, 37:26
		15						21				*37:22, 44:131
		15						21				*37:34
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **27R**

Lot-specific information

Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*39:01:01:01-39:01:01:03, 39:01:03, 39:01:05-39:01:08, 39:01:10-39:01:14, 39:06:01-39:06:02, 39:09, 39:26, 39:28, 39:38Q, 39:40N-39:41, 39:44, 39:46, 39:48, 39:51, 39:53, 39:57, 39:59-39:62, 39:64-39:71, 39:75	1		3									12
*39:01:04	1		3									
*39:01:09, 39:19:01			3									
*39:02:01	1					6	7					12
*39:02:02, 39:23						6	7					
*39:03, 39:14, 39:24:01	1		3									12
*39:04			3					8		10		12
*39:05:01-39:05:02, 39:11, 39:56	1	2	3									
*39:07, 39:55	1	2	3									
*39:08	1	2				6	7					
*39:10:01-39:10:02, 39:16, 67:01:02												
*39:12, 39:45, 39:72			3									12
*39:13:01-39:13:02		2				6	7					
*39:15	1		3									12
*39:18	1		3									12
*39:19:02	1		3							10		12
*39:20		2										
*39:22	1		3				7					12
*39:24:02	1		3									w
*39:25N, 39:32, 39:43, 39:47, 39:50, 39:74	1		3									12
*39:27	1		3									w
*39:29	1		3									12
*39:30, 39:33-39:34	1		3									12
*39:31	w		3									12
*39:35	1		3									12
*39:36	1		3									12
*39:39:01	1					6						12
*39:39:02						6						
*39:42	1		3					8				12
*39:49		2				6	7					
*39:52, 39:54, 39:58, 67:01:01, 67:03	1											12
*39:63												
*39:73	1		3									12
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **27R**

Lot-specific information

175	170	230	220	150	160	140	265	115	175	155	175	Length of spec.
			350									PCR product(s)
			425									
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
13												*39:01:01:01-39:01:01:03, 39:01:03, 39:01:05-39:01:08, 39:01:10-39:01:14, 39:06:01-39:06:02, 39:09, 39:26, 39:28, 39:38Q, 39:40N-39:41, 39:44, 39:46, 39:48, 39:51, 39:53, 39:57, 39:59-39:62, 39:64-39:71, 39:75
13												*39:01:04
13												*39:01:09, 39:19:01
13												*39:02:01
13												*39:02:02, 39:23
13			16									*39:03, 39:14, 39:24:01
13												*39:04
13		15										*39:05:01-39:05:02, 39:11, 39:56
		15						22				*39:07, 39:55
13		15										*39:08
13												*39:10:01-39:10:02, 39:16, 67:01:02
13												*39:12, 39:45, 39:72
13		15										*39:13:01-39:13:02
								22				*39:15
13	14											*39:18
13												*39:19:02
13		15										*39:20
13												*39:22
13			16									*39:24:02
												*39:25N, 39:32, 39:43, 39:47, 39:50, 39:74
13												*39:27
		16						22				*39:29
										24		*39:30, 39:33-39:34
13												*39:31
13	14								23			*39:35
	14								w	24		*39:36
13												*39:39:01
13												*39:39:02
13												*39:42
		15						22				*39:49
13												*39:52, 39:54, 39:58, 67:01:01, 67:03
13							20					*39:63
13				17								*39:73
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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Lot No.: **27R**

Lot-specific information

Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*40:05, 40:26, 40:28, 40:95, 40:148, 40:161, 40:174												
*40:21, 40:58, 40:137												
*40:184												
*40:188												
*44:06, 53:22									9			
*44:130		2			5	6	7					
*48:05, 48:15		2				6	7					
*48:06		2										
*49:03									9			
*51:01:01-51:01:18, 51:01:20-51:01:30, 51:01:32-51:02:02, 51:02:04-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16, 51:21-51:24:04, 51:26-51:30, 51:32-51:35, 51:38-51:39, 51:41N, 51:43, 51:46, 51:48-51:52, 51:55-51:56:02, 51:58-51:60, 51:62-51:71, 51:74-51:77, 51:79-51:80, 51:82-51:84, 51:86, 51:88-51:89, 51:95-51:96, 51:98N-51:100, 51:102, 51:105-51:107, 51:109-51:111, 51:113-51:114, 51:117-51:119, 51:121, 51:123-51:134, 51:136-51:137, 52:01:01:01-52:01:09, 52:01:12, 52:04-52:09, 52:11, 52:13-52:15, 52:17-52:18, 52:22-52:25, 52:30, 58:08:01-58:08:02									9			
*51:01:19									9			
*51:01:31, 51:02:03, 51:17-51:18, 51:37, 51:45, 51:85, 51:90, 51:92, 51:94, 51:135, 52:01:11, 52:12, 52:26, 53:06, 53:08:01-53:08:02, 53:28, 58:06, 58:19									9			
*51:05, 51:09:01-51:10, 51:15, 51:31, 51:40, 51:73, 51:81, 51:93, 51:108, 51:115, 51:122, 52:03, 52:10:01-52:10:02, 58:27-58:28									9			
*51:08, 51:20, 51:44N, 51:97, 52:19									9			
*51:19, 51:42, 53:01:01-53:02, 53:04-53:05, 53:07, 53:10, 53:14-53:18, 53:20, 53:23-53:27, 58:01:01-58:02, 58:04-58:05, 58:07, 58:09-58:11, 58:13-58:16, 58:18, 58:21-58:26, 58:29-58:35, 58:37									9			
*51:36									9			
*51:53, 51:120, 52:28-52:29									9			
*51:57, 51:103									9			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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Lot No.: **27R**

Lot-specific information

175	170	230	220	150	160	140	265	115	175	155	175	Length of spec.
			350									PCR product(s)
			425									
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14	15								23	24	*40:05, 40:26, 40:28, 40:95, 40:148, 40:161, 40:174
							?				24	*40:21, 40:58, 40:137
13		15										*40:184
			?								24	*40:188
								21				*44:06, 53:22
		15										*44:130
	14	15								23	24	*48:05, 48:15
		15									24	*48:06
	14						20					*49:03
	14									23	24	*51:01:01-51:01:18, 51:01:20-51:01:30, 51:01:32-51:02:02, 51:02:04-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16, 51:21-51:24:04, 51:26-51:30, 51:32-51:35, 51:38-51:39, 51:41N, 51:43, 51:46, 51:48-51:52, 51:55-51:56:02, 51:58-51:60, 51:62-51:71, 51:74-51:77, 51:79-51:80, 51:82-51:84, 51:86, 51:88-51:89, 51:95-51:96, 51:98N-51:100, 51:102, 51:105-51:107, 51:109-51:111, 51:113-51:114, 51:117-51:119, 51:121, 51:123-51:134, 51:136-51:137, 52:01:01:01-52:01:09, 52:01:12, 52:04-52:09, 52:11, 52:13-52:15, 52:17-52:18, 52:22-52:25, 52:30, 58:08:01-58:08:02
	14									w	w	*51:01:19
	14											*51:01:31, 51:02:03, 51:17-51:18, 51:37, 51:45, 51:85, 51:90, 51:92, 51:94, 51:135, 52:01:11, 52:12, 52:26, 53:06, 53:08:01-53:08:02, 53:28, 58:06, 58:19
											24	*51:05, 51:09:01-51:10, 51:15, 51:31, 51:40, 51:73, 51:81, 51:93, 51:108, 51:115, 51:122, 52:03, 52:10:01-52:10:02, 58:27-58:28
								21			24	*51:08, 51:20, 51:44N, 51:97, 52:19
												*51:19, 51:42, 53:01:01-53:02, 53:04-53:05, 53:07, 53:10, 53:14-53:18, 53:20, 53:23-53:27, 58:01:01-58:02, 58:04-58:05, 58:07, 58:09-58:11, 58:13-58:16, 58:18, 58:21-58:26, 58:29-58:35, 58:37
	14							21			24	*51:36
										23	24	*51:53, 51:120, 52:28-52:29
	14	15								23	24	*51:57, 51:103
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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Lot No.: **27R**

Lot-specific information

Length of spec.	185	190	170	105	210	175	160	185	145	85	90	90
PCR product(s)							185	230	205	145	145	
							205			180		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*51:61:01-51:61:02, 52:21									9			
*51:72, 51:87, 51:91									9			
*51:101									9			
*51:116		2							9			
*52:01:10				4					9			
*52:16		2				6	7					
*52:27		2				6	7		9			
*53:19									9			
*53:21									9			
*55:54, C*15:24												
*55:55N												
*55:56, 57:09												
*58:12		2							9			
*58:20									9			
C*02:02:07, C*05:01:06								8				
HLA-B allele												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*38 subtyping.

In addition, wells number 2, 3, 6 to 8, 12, 13 and 17 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

³The nucleotide position, in 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.

⁴HLA-B*38 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.9.0, July 2012.

⁵The B*38:11 and 38:19 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 16.

⁶The B*38:17 and B*39:37 alleles give rise to identical amplification patterns with the HLA-B*38 primer set. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B*39 kits.

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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Lot No.: **27R**

Lot-specific information

175	170	230	220	150	160	140	265	115	175	155	175	Length of spec.
			350									PCR product(s)
			425									
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14									w	24	*51:61:01-51:61:02, 52:21
	14										24	*51:72, 51:87, 51:91
13	14									23		*51:101
	14	15								23	24	*51:116
	14									23	24	*52:01:10
	14									23	24	*52:16
	14									23	24	*52:27
											w	*53:19
		15										*53:21
										23	24	*55:54, C*15:24
	14									23		*55:55N
	14							21			24	*55:56, 57:09
												*58:12
13												*58:20
												C*02:02:07, C*05:01:06
												HLA-B allele
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

⁷Primer mix 7: Specific PCR fragment of 160 bp in the B*38:03-38:04 and 38:25 and the B*08:17, 08:38, 08:54, 15:03:01-15:03:03, 15:47:01-15:47:02, 15:49, 15:54, 15:61-15:62, 15:68-15:69, 15:74, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242-15:243, 15:251, 15:253, 18:12, 37:01:01-37:07, 37:09-37:21, 37:23-37:34, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:22-39:23, 39:49, 40:12, 40:149, 42:11, 44:130, 48:01:01-48:02:01, 48:03:01-48:05, 48:07-48:15, 48:17-48:28, 52:16 and 52:27 alleles. Specific PCR fragment of 185 bp in the B*38:34N allele. Specific PCR fragment of 205 bp in the B*38:21 allele.

Primer mix 8: Specific PCR fragment of 185 bp in the B*38:05 and 38:33 and the B*14:02:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:03, 14:04w, 14:05-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 15:189, 35:26, 39:04 and in the C*02:02:07 and C*05:01:06 alleles. Specific PCR fragment of 230 bp in the B*38:15, 38:20 and 38:22 and in the B*35:35 and 39:42 and the C*15:51 alleles.

Primer mix 9: Specific PCR fragment of 145 bp in the B*38:06-38:07 and the B*18:67, 37:34, 44:06, 49:03, 51:01:01-51:24:04, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:103, 51:105-51:111, 51:113-51:137, 52:01:01-52:01:12, 52:03-52:15, 52:17-52:19, 52:21-52:30, 53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:28, 58:01:01-58:02, 58:04-58:16, 58:18-58:35 and 58:37 alleles. Specific PCR fragment of 205 bp in the B*38:21 allele.

Primer mix 10: Specific PCR fragment of 85 bp in the B*38:07 and 38:12 and in the B*39:19:02 alleles. Specific PCR fragment of 145 bp in the B*38:16 allele. Specific PCR fragment of 180 bp in the B*38:33 and the B*14:11, 14:28, 15:189, 35:26 and 39:04 alleles.

Primer mix 11: Specific PCR fragment of 90 bp in the B*38:13 allele. Specific PCR fragment of 145 bp in the B*38:08 and 38:18 alleles.

Primer mix 16: Specific PCR fragment of 220 bp in the B*38:19 and the B*08:55, 39:03, 39:14, 39:24:01-39:24:02, 39:29 and 39:37 alleles. Specific PCR fragment of 350 bp in the B*38:11 and the B*07:13, 07:110 and 67:02 alleles. Specific PCR fragment of 425 bp in the B*38:17 and the B*07:27 and 40:188⁷ alleles.

‘w’, might be weakly amplified.

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

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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Lot No.: **27R**

Lot-specific information

CELL LINE VALIDATION SHEET															
HLA-B*38 SSP subtyping kit															
				Prod. No.:	Well										
					1	2	3	4	5	6	7	8	9	10	11
					201186401	201075902	201075903	201075904	201186405	201206806	201206807	201075908	201075909	201206810	201075911
					201075912	201075913	201075914	201075915	201075916						
IHWC cell line				B*											
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	+	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	+	-	-
4	9275	GU373	*15:10	*53:01	-	+	+	-	-	-	-	-	+	-	-
5	9009	KAS011	*37:01		-	+	-	-	-	+	+	-	-	-	-
6	9353	SM	*39:01	*51:01	+	-	+	-	-	-	-	-	+	-	-
7	9020	QBL	*18:01		-	+	-	-	-	+	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		+	+	+	+	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	+	-	+	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	+	-	-	-	+	-	-	-	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		+	+	+	+	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	+	-	-	-	-	+	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	+	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	+	-	-	-	+	-	-	-	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		+	+	+	+	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	+	-	-	-	-	+	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		+	+	+	+	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-

101.565-12– including *Taq* pol., IFU-01
 101.565-12u – without *Taq* pol., IFU-02

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Lot No.: **27R**

Lot-specific information

CELL LINE VALIDATION SHEET					Well								
HLA-B*38 SSP subtyping kit					17	18	19	20	21	22	23	24	
				Prod. No.:	201206817	201206818	201186419	201206820	201186421	201186422	201206823	201206824	
	IHWC cell line		B*										
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	
2	9280 LK707		*52:01	*73:01	-	-	-	-	-	-	+	+	
3	9011 E4181324		*52:01		-	-	-	-	-	-	+	+	
4	9275 GU373		*15:10	*53:01	-	-	-	-	-	-	-	-	
5	9009 KAS011		*37:01		-	-	-	-	+	-	-	-	
6	9353 SM		*39:01	*51:01	-	-	-	-	-	-	+	+	
7	9020 QBL		*18:01		-	-	-	-	-	-	-	-	
8	9025 DEU		*35:01		-	-	-	-	-	-	-	-	
9	9026 YAR		*38:01		-	-	-	-	-	-	-	-	
10	9107 LKT3		*54:01		-	-	-	-	-	-	-	+	
11	9051 PITOUT		*44:03		-	-	-	-	-	-	-	-	
12	9052 DBB		*57:01		-	-	-	-	-	-	-	-	
13	9004 JESTHOM		*27:05		-	-	-	-	-	-	-	-	
14	9071 OLGA		*15:01	*15:20	-	-	-	-	-	-	-	-	
15	9075 DKB		*40:01		-	-	-	-	-	-	-	+	
16	9037 SWEIG007		*40:02		-	-	-	-	-	-	-	+	
17	9282 CTM3953540		*08:01	*55:01	-	-	-	-	-	-	+	+	
18	9257 32367		*14:01	*56:01	-	-	-	-	-	-	-	+	
19	9038 BM16		*18:01		-	-	-	-	-	-	-	-	
20	9059 SLE005		*40:01		-	-	-	-	-	-	-	+	
21	9064 AMALA		*15:01		-	-	-	-	-	-	-	-	
22	9056 KOSE		*35:03		-	-	-	-	-	-	-	-	
23	9124 IHL		*40:02	*56:02	-	-	-	-	-	-	-	+	
24	9035 JBUSH		*38:01		-	-	-	-	-	-	-	-	
25	9049 IBW9		*14:02		-	-	-	-	-	-	-	-	
26	9285 WT49		*58:01		-	-	-	-	-	-	-	-	
27	9191 CH1007		*07:05	*51:01	-	-	-	-	-	-	+	+	
28	9320 BEL5GB		*44:02	*44:03	-	-	-	-	+	-	-	-	
29	9050 MOU		*44:03		-	-	-	-	-	-	-	-	
30	9021 RSH		*42:01		-	-	-	-	-	-	-	+	
31	9019 DUCAF		*18:01		-	-	-	-	-	-	-	-	
32	9297 HAG		*41:02		-	-	-	-	-	-	-	+	
33	9098 MT14B		*40:01		-	-	-	-	-	-	-	+	
34	9104 DHIF		*38:01		-	-	-	-	-	-	-	-	
35	9302 SSTO		*44:02		-	-	-	-	+	-	-	-	
36	9024 KT17		*15:01	*35:01	-	-	-	-	-	-	-	-	
37	9065 HHKB		*07:02		-	-	-	-	-	-	-	-	
38	9099 LZL		*15:01		-	-	-	-	-	-	-	-	
39	9315 CML		*08:01	*27:05	-	-	-	-	-	-	-	+	
40	9134 WHONP199		*13:02	*46:01	-	-	-	-	-	-	-	+	
41	9055 H0301		*14:02		-	-	-	-	-	-	-	-	
42	9066 TAB089		*46:01		-	-	-	-	-	-	-	-	
43	9076 T7526		*46:01		-	-	-	-	-	-	-	-	
44	9057 TEM		*38:01		-	-	-	-	-	-	-	-	
45	9239 SHJO		*42:01	*50:01	-	-	-	-	-	-	-	+	
46	9013 SCHU		*07:02		-	-	-	-	-	-	-	-	
47	9045 TUBO		*51:01		-	-	-	-	-	-	+	+	
48	9303 TER-ND		*35:01	*44:03	-	-	-	-	-	-	-	-	

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **27R**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*38 SSP

Product number: 101.565-12– including *Taq* polymerase
101.565-12u – without *Taq* polymerase
Lot number: 27R
Expiry date: 2015-March-01
Number of tests: 12
Number of wells per test: 24

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2011-864-01	9	2010-759-09	17	2012-068-17
2	2010-759-02	10	2012-068-10	18	2012-068-18
3	2010-759-03	11	2010-759-11	19	2011-864-19
4	2010-759-04	12	2010-759-12	20	2012-068-20
5	2011-864-05	13	2010-759-13	21	2011-864-21
6	2012-068-06	14	2010-759-14	22	2011-864-22
7	2012-068-07	15	2010-759-15	23	2012-068-23
8	2010-759-08	16	2010-759-16	24	2012-068-24

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

No DNAs carrying the alleles to be amplified by primer solutions 10, 11 and 16 to 20 were available. The specificities of the primers in primer solutions 10, 11, 16, 17, 19 and 20 were tested by separately adding one or more additional 5'-primers, respectively one or more additional 3'-primers. In primer solution 18 it was only possible to test the 3'-primer, the 5'-primers were not possible to test. In primer solutions 7, 8, 9 and 11, one of the 5'-primers was not possible to test, and in primer solutions 6, 7 and 11 one or two of the 3'-primers were not possible to test. Additional primers in primer solutions 8 and 9 were tested by separately adding one or two 5'-primers or 3'-primers.

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

Date of approval: 2012-October-05

Approved by:

Production Quality Control

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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

Lot No.: **27R**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*38
Product number: 101.565-12/12u
Lot number: 27R

Intended use: HLA-B*38 high resolution histocompatibility testing

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

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

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

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

Stockholm, Sweden
2012-October-05

Åsa Olausson
Production Quality Control

101.565-12– including *Taq* pol., IFU-01
101.565-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **27R**

Lot-specific information

ADDRESSES:

Manufacturer:

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

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.com

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

Distributed by:

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

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

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

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

Tel: 1-877-OLERUP1

Fax: 610-344-7989

E-mail: info.us@olerup.com

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

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