

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information
Olerup SSP[®] HLA-B*39

Product number: 101.566-12/04 – including *Taq* pol.
 101.566-12u/04u – without *Taq* pol.

Lot number: 47R

Expiry date: 2015-May-01

Number of tests: 12 tests – Product No. 101.566-12/12u
 4 tests – Product No. 101.566-04/04u

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. 47R.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®]
 HLA-B*39 LOT (46M)**

The HLA-B*39 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP[®]* HLA-B*39 lot was made (**Lot No. 46M**).

The HLA-B*39 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
-

The Lot-specific information for HLA- B*39 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

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

Well	5'-primer	3'-primer	rationale
7	-	Added	3'-primer added for the B*39:68 allele.
9	Added	-	5'-primer added for the B*39:73 allele.

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14	Added	-	5'-primer added for the B*39:10:02 allele.
30	-	Added, modified	3'-primer added for the B*39:64 allele, modified 3'-primer for decreased tendencies of primer oligomer formation.

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PRODUCT DESCRIPTION

HLA-B*39 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*39:01 to B*39:75 alleles.

PLATE LAYOUT

Each 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 cut PCR plate is marked with 'HLA-B*39' in silver/gray ink.

Well No. 1 is marked with the Lot Number '47R'.

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 32 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*39 SSP subtypings will be influenced by the B*07, the B*08, the B*13, the B*14, many B*15, the B*18, the B*27, most B*35, the B*37, the B*38, many B*40, ten B*41, the B*42, many B*44, four B*45, ten B*46, the B*47, the B*48, two B*49, the B*50:15, several B*51, ten B*52, most B*53, the B*54, the B*55, most B*56, several B*57, most B*58, the B*59, the B*67, the B*73, three B*78, the B*81, the B*82 and the B*83:01 alleles when present on the other haplotype.

In addition, primer mix 1 will amplify the C*05:70, C*06:40 and C*07:137:01-07:137:02 alleles, primer mix 7 will amplify the A*30:63, C*05:70, C*06:40, C*07:137:01-07:137:02 and C*15:51 alleles, primer mix 12 will amplify the C*15:51 allele, primer mix 16 will amplify the C*07:137:01-07:137:02 alleles, primer mix 20 will amplify the C*07:137:01-07:137:02 and C*15:51 alleles, primer mix 21 will amplify the C*05:70 and C*07:137:01-07:137:02 alleles, primer mix 25 will amplify the C*15:31 allele, primer mix 26 will amplify the C*01:30 allele, primer mix 27 will amplify the C*15:39 allele, primer mix 28 will amplify the C*15:15 allele, primer mix 30 will amplify the A*30:63, C*05:70, C*06:40 and C*15:51 alleles and primer mix 32 will amplify the C*15:51 allele.

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Lot-specific information

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*39 alleles, i.e. **B*39:01 to B*39:75**, recognized by the HLA Nomenclature Committee in July 2012¹ will be amplified by the primers in the HLA-B*39 subtyping kit².

The HLA-B*39 kit enables separation of the confirmed HLA-B*39 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*39 alleles is listed below.

The HLA-B*39 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*39 subtyping kit cannot distinguish the silent mutations in the B*39:01:01:01, 39:01:01:03, 39:01:03, 39:01:06-39:01:08 and 39:01:10-39:01:14 alleles, the B*39:05:01-39:05:02 alleles, the B*39:06:01-39:06:02 alleles, the B*39:13:01-39:13:02 alleles or the B*39:24:01-39:24:02 alleles.

The B*39:01:01:02L and B*39:60 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 25.

The B*39:62 and B*39:64 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 30.

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*39:10:01 and B*67:01:02 alleles will give rise to identical amplification patterns with the HLA-B*39 subtyping kit. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B*67 kits.

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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*39:01:01:01	Confirmed	B*39:13:01	Confirmed	B*39:40N	Unconfirmed	B*39:70	Unconfirmed
B*39:01:01:02L	Unconfirmed	B*39:13:02	Unconfirmed	B*39:41	Unconfirmed	B*39:71	Unconfirmed
B*39:01:01:03	Unconfirmed	B*39:14	Confirmed	B*39:42	Unconfirmed	B*39:72	Unconfirmed
B*39:01:03	Confirmed	B*39:15	Confirmed	B*39:43	Unconfirmed	B*39:73	Confirmed
B*39:01:04	Confirmed	B*39:16	Unconfirmed	B*39:44	Unconfirmed	B*39:74	Unconfirmed
B*39:01:05	Confirmed	B*39:17	Unconfirmed	B*39:45	Unconfirmed	B*39:75	Unconfirmed
B*39:01:06	Unconfirmed	B*39:18	Unconfirmed	B*39:46	Unconfirmed		
B*39:01:07	Unconfirmed	B*39:19:01	Unconfirmed	B*39:47	Unconfirmed		
B*39:01:08	Confirmed	B*39:19:02	Confirmed	B*39:48	Unconfirmed		
B*39:01:09	Confirmed	B*39:20	Confirmed	B*39:49	Unconfirmed		
B*39:01:10	Confirmed	B*39:22	Confirmed	B*39:50	Unconfirmed		
B*39:01:11	Unconfirmed	B*39:23	Confirmed	B*39:51	Unconfirmed		
B*39:01:12	Unconfirmed	B*39:24:01	Confirmed	B*39:52	Unconfirmed		
B*39:01:13	Unconfirmed	B*39:24:02	Confirmed	B*39:53	Confirmed		
B*39:01:14	Confirmed	B*39:25N	Unconfirmed	B*39:54	Unconfirmed		
B*39:02:01	Unconfirmed	B*39:26	Confirmed	B*39:55	Unconfirmed		
B*39:02:02	Confirmed	B*39:27	Confirmed	B*39:56	Unconfirmed		
B*39:03	Confirmed	B*39:28	Unconfirmed	B*39:57	Confirmed		
B*39:04	Confirmed	B*39:29	Confirmed	B*39:58	Unconfirmed		
B*39:05:01	Confirmed	B*39:30	Unconfirmed	B*39:59	Unconfirmed		
B*39:05:02	Unconfirmed	B*39:31	Confirmed	B*39:60	Unconfirmed		
B*39:06:01	Confirmed	B*39:32	Unconfirmed	B*39:61	Unconfirmed		
B*39:06:02	Confirmed	B*39:33	Confirmed	B*39:62	Unconfirmed		
B*39:07	Confirmed	B*39:34	Confirmed	B*39:63	Confirmed		
B*39:08	Confirmed	B*39:35	Unconfirmed	B*39:64	Confirmed		
B*39:09	Confirmed	B*39:36	Unconfirmed	B*39:65	Unconfirmed		
B*39:10:01	Confirmed	B*39:37	Confirmed	B*39:66	Unconfirmed		
B*39:10:02	Unconfirmed	B*39:38Q	Confirmed	B*39:67	Unconfirmed		
B*39:11	Confirmed	B*39:39:01	Confirmed	B*39:68	Confirmed		
B*39:12	Confirmed	B*39:39:02	Unconfirmed	B*39:69	Unconfirmed		

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

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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 96 alleles generate 74 amplification patterns that can be combined in 2775 homozygous and heterozygous combinations. 1820 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.

```

+----- +----- +----- +----- *39:10:01, *39:10:01 = *39:10:01, *39:10:02
+----- +----- +----- +----- *39:10:01, *39:63 = *39:10:02, *39:63 = *39:63, *39:63
+----- +----- +----- +----- *39:10:01, *39:16 = *39:10:02, *39:16
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:17 = *39:10:02, *39:17 = *39:17, *39:17
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:39:02 = *39:10:02, *39:39:02
+-----+ +-----+ +-----+ +-----+ *39:02:02, *39:23 = *39:23, *39:23
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:20 = *39:10:02, *39:20 = *39:20, *39:20
+-----+ +-----+ +-----+ +-----+ *39:02:02, *39:13:01 = *39:13:01, *39:13:01
+-----+ +-----+ +-----+ +-----+ *39:01:09, *39:10:01 = *39:01:09, *39:10:02
+-----+ +-----+ +-----+ +-----+ *39:01:09, *39:19:01 = *39:19:01, *39:19:01
+-----+ +-----+ +-----+ +-----+ *39:02:02, *39:49 = *39:13:01, *39:49 = *39:49, *39:49
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:19:01 = *39:10:02, *39:19:01
+-----+ +-----+ +-----+ +-----+ *39:01:04, *39:01:04 = *39:01:04, *39:01:09
+-----+ +-----+ +-----+ +-----+ *39:01:09, *39:72 = *39:72, *39:72
+-----+ +-----+ +-----+ +-----+ *39:30, *39:34 = *39:34, *39:34
+-----+ +-----+ +-----+ +-----+ *39:32, *39:32 = *39:32, *39:74
+-----+ +-----+ +-----+ +-----+ *39:33, *39:33 = *39:33, *39:36 = *39:33, *39:74 = *39:36, *39:74
+-----+ +-----+ +-----+ +-----+ *39:06:01, *39:06:01 = *39:06:01, *39:73
+-----+ +-----+ +-----+ +-----+ *39:47, *39:50 = *39:50, *39:50
+-----+ +-----+ +-----+ +-----+ *39:30, *39:43 = *39:43, *39:43
+-----+ +-----+ +-----+ +-----+ *39:39:01, *39:39:01 = *39:39:01, *39:39:02
+-----+ +-----+ +-----+ +-----+ *39:02:01, *39:02:01 = *39:02:01, *39:02:02
+-----+ +-----+ +-----+ +-----+ *39:02:02, *39:20 = *39:10:01, *39:13:01 = *39:13:01, *39:20
+-----+ +-----+ +-----+ +-----+ *39:01:01:01, *39:01:01:01 = *39:01:01:01, *39:01:04 = *39:01:01:01,
+-----+ +-----+ +-----+ +-----+ *39:01:09 = *39:01:01:01, *39:72 = *39:01:04, *39:72
+-----+ +-----+ +-----+ +-----+ *39:01:09, *39:45 = *39:45, *39:45 = *39:45, *39:72
+-----+ +-----+ +-----+ +-----+ *39:01:09, *39:12 = *39:12, *39:12 = *39:12, *39:72
+-----+ +-----+ +-----+ +-----+ *39:01:04, *39:10:01 = *39:01:04, *39:10:02
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:72 = *39:10:02, *39:72
+-----+ +-----+ +-----+ +-----+ *39:01:09, *39:04 = *39:04, *39:04 = *39:04, *39:72
+-----+ +-----+ +-----+ +-----+ *39:01:04, *39:05:01 = *39:01:09, *39:05:01 = *39:05:01, *39:05:01
+-----+ +-----+ +-----+ +-----+ *39:32, *39:33 = *39:32, *39:36
+-----+ +-----+ +-----+ +-----+ *39:06:01, *39:30 = *39:06:01, *39:34 = *39:34, *39:73
+-----+ +-----+ +-----+ +-----+ *39:06:01, *39:62 = *39:62, *39:62 = *39:62, *39:73
+-----+ +-----+ +-----+ +-----+ *39:06:01, *39:36 = *39:06:01, *39:57 = *39:36, *39:57 = *39:57, *39:57 =
+-----+ +-----+ +-----+ +-----+ *39:57, *39:73
+-----+ +-----+ +-----+ +-----+ *39:30, *39:50 = *39:34, *39:47 = *39:34, *39:50
+-----+ +-----+ +-----+ +-----+ *39:06:01, *39:47 = *39:06:01, *39:50 = *39:50, *39:73
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:52 = *39:10:02, *39:52
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:54 = *39:10:02, *39:54
+-----+ +-----+ +-----+ +-----+ *39:39:01, *39:52 = *39:39:02, *39:52
+-----+ +-----+ +-----+ +-----+ *39:02:01, *39:39:01 = *39:02:01, *39:39:02 = *39:02:02, *39:39:01
+-----+ +-----+ +-----+ +-----+ *39:39:01, *39:54 = *39:39:02, *39:54
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:39:01 = *39:10:02, *39:39:01
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:58 = *39:10:02, *39:58
+-----+ +-----+ +-----+ +-----+ *39:39:01, *39:58 = *39:39:02, *39:58
+-----+ +-----+ +-----+ +-----+ *39:10:01, *39:49 = *39:20, *39:49
+-----+ +-----+ +-----+ +-----+ *39:02:02, *39:08 = *39:08, *39:08 = *39:08, *39:13:01
+-----+ +-----+ +-----+ +-----+ *39:01:01:01, *39:41 = *39:01:01:01, *39:42 = *39:01:04, *39:41 = *39:01:04,
+-----+ +-----+ +-----+ +-----+ *39:42 = *39:01:09, *39:41 = *39:01:09, *39:42 = *39:41, *39:41 = *39:41,
+-----+ +-----+ +-----+ +-----+ *39:42 = *39:41, *39:72 = *39:42, *39:72
+-----+ +-----+ +-----+ +-----+ *39:01:01:01, *39:30 = *39:01:04, *39:30 = *39:01:09, *39:30 = *39:30, *39:72
+-----+ +-----+ +-----+ +-----+ *39:01:01:01, *39:35 = *39:01:01:01, *39:52 = *39:01:04, *39:35 = *39:01:04,
+-----+ +-----+ +-----+ +-----+ *39:52 = *39:01:09, *39:35 = *39:01:09, *39:52 = *39:35, *39:35 = *39:35,
+-----+ +-----+ +-----+ +-----+ *39:52 = *39:35, *39:72 = *39:52, *39:72

```



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++-+-----	-----	---+-----	-----	*39:01:01:01, *39:74 = *39:01:04, *39:74 = *39:01:09, *39:74 = *39:72, *39:74
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:48 = *39:01:04, *39:48 = *39:01:09, *39:48 = *39:48, *39:48
++-+-----	-----	---+-----	-----	= *39:48, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:01:01:02L = *39:01:01:02L, *39:01:01:02L = *39:01:01:02L,
++-+-----	-----	---+-----	-----	*39:01:04 = *39:01:01:02L, *39:01:09 = *39:01:01:02L, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:28 = *39:01:01:01, *39:45 = *39:01:04, *39:28 = *39:01:04,
++-+-----	-----	---+-----	-----	*39:45 = *39:01:09, *39:28 = *39:28, *39:45 = *39:28, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:01:05 = *39:01:04, *39:01:05 = *39:01:05, *39:01:05 =
++-+-----	-----	---+-----	-----	*39:01:05, *39:01:09 = *39:01:05, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:22 = *39:01:04, *39:22 = *39:01:09, *39:22 = *39:22, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:25N = *39:01:04, *39:25N = *39:01:09, *39:25N = *39:25N,
++-+-----	-----	---+-----	-----	*39:25N = *39:25N, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:70 = *39:01:04, *39:70 = *39:01:09, *39:70 = *39:70, *39:70
++-+-----	-----	---+-----	-----	= *39:70, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:12 = *39:01:01:01, *39:31 = *39:01:01:01, *39:54 =
++-+-----	-----	---+-----	-----	*39:01:04, *39:12 = *39:01:04, *39:31 = *39:01:04, *39:54 = *39:01:09, *39:31
++-+-----	-----	---+-----	-----	= *39:01:09, *39:54 = *39:12, *39:31 = *39:12, *39:54 = *39:31, *39:31 =
++-+-----	-----	---+-----	-----	*39:31, *39:54 = *39:31, *39:72 = *39:54, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:10:01 = *39:01:01:01, *39:10:02
++-+-----	-----	---+-----	-----	*39:10:01, *39:45 = *39:10:02, *39:45
++-+-----	-----	---+-----	-----	*39:10:01, *39:12 = *39:10:02, *39:12
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:44 = *39:01:04, *39:44 = *39:01:09, *39:44 = *39:44, *39:44
++-+-----	-----	---+-----	-----	= *39:44, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:15 = *39:01:04, *39:15 = *39:01:09, *39:15 = *39:15, *39:15
++-+-----	-----	---+-----	-----	= *39:15, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:36 = *39:01:01:01, *39:53 = *39:01:04, *39:36 = *39:01:04,
++-+-----	-----	---+-----	-----	*39:53 = *39:01:09, *39:36 = *39:01:09, *39:53 = *39:36, *39:53 = *39:36,
++-+-----	-----	---+-----	-----	*39:72 = *39:53, *39:53 = *39:53, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:19:01 = *39:01:01:01, *39:19:02 = *39:01:04, *39:19:02 =
++-+-----	-----	---+-----	-----	*39:01:09, *39:19:02 = *39:19:01, *39:19:02 = *39:19:02, *39:19:02 =
++-+-----	-----	---+-----	-----	*39:19:02, *39:72
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:59 = *39:01:01:01, *39:73 = *39:01:04, *39:59 = *39:01:04,
++-+-----	-----	---+-----	-----	*39:73 = *39:01:09, *39:59 = *39:01:09, *39:73 = *39:59, *39:59 = *39:59,
++-+-----	-----	---+-----	-----	*39:72 = *39:59, *39:73 = *39:72, *39:73
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:04 = *39:01:01:01, *39:46 = *39:01:01:01, *39:47 =
++-+-----	-----	---+-----	-----	*39:01:04, *39:04 = *39:01:04, *39:46 = *39:01:04, *39:47 = *39:01:09, *39:46
++-+-----	-----	---+-----	-----	= *39:01:09, *39:47 = *39:04, *39:46 = *39:04, *39:47 = *39:46, *39:46 =
++-+-----	-----	---+-----	-----	*39:46, *39:47 = *39:46, *39:72 = *39:47, *39:72
++-+-----	-----	---+-----	-----	*39:04, *39:10:01 = *39:04, *39:10:02
++-+-----	-----	---+-----	-----	*39:03, *39:24:01 = *39:24:01, *39:24:01
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:03 = *39:01:01:01, *39:68 = *39:01:04, *39:03 = *39:01:04,
++-+-----	-----	---+-----	-----	*39:68 = *39:01:09, *39:03 = *39:01:09, *39:68 = *39:03, *39:68 = *39:03,
++-+-----	-----	---+-----	-----	*39:72 = *39:68, *39:68 = *39:68, *39:72
++-+-----	-----	---+-----	-----	*39:03, *39:14 = *39:14, *39:14
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:39:01 = *39:01:01:01, *39:39:02 = *39:01:04, *39:39:01 =
++-+-----	-----	---+-----	-----	*39:01:09, *39:39:01 = *39:39:01, *39:72
++-+-----	-----	---+-----	-----	*39:02:01, *39:22 = *39:02:02, *39:22
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:26 = *39:01:01:01, *39:58 = *39:01:04, *39:26 = *39:01:04,
++-+-----	-----	---+-----	-----	*39:58 = *39:01:09, *39:26 = *39:01:09, *39:58 = *39:26, *39:26 = *39:26,
++-+-----	-----	---+-----	-----	*39:58 = *39:26, *39:72 = *39:58, *39:72
++-+-----	-----	---+-----	-----	*39:01:04, *39:56 = *39:01:09, *39:56 = *39:05:01, *39:56 = *39:56, *39:56
++-+-----	-----	---+-----	-----	*39:01:01:01, *39:05:01 = *39:05:01, *39:72
++-+-----	-----	---+-----	-----	*39:01:04, *39:20 = *39:05:01, *39:10:01 = *39:05:01, *39:10:02 = *39:05:01,
++-+-----	-----	---+-----	-----	*39:20
++-+-----	-----	---+-----	-----	*39:01:04, *39:55 = *39:01:09, *39:55 = *39:05:01, *39:55 = *39:55, *39:55
++-+-----	-----	---+-----	-----	*39:01:04, *39:11 = *39:01:09, *39:11 = *39:05:01, *39:11 = *39:11, *39:11
++-+-----	-----	---+-----	-----	*39:01:04, *39:37 = *39:01:09, *39:37 = *39:05:01, *39:37
++-+-----	-----	---+-----	-----	*39:30, *39:62 = *39:34, *39:62
++-+-----	-----	---+-----	-----	*39:30, *39:57 = *39:34, *39:57
++-+-----	-----	---+-----	-----	*39:36, *39:62 = *39:57, *39:62
++-+-----	-----	---+-----	-----	*39:06:01, *39:33 = *39:33, *39:57 = *39:57, *39:74
++-+-----	-----	---+-----	-----	*39:47, *39:62 = *39:50, *39:62
++-+-----	-----	---+-----	-----	*39:47, *39:57 = *39:50, *39:57

101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

+-----+	-----	+++++	-----	*39:02:01, *39:52 = *39:02:02, *39:52
+-----+	-----	+++++	-----	*39:02:01, *39:54 = *39:02:02, *39:54
+-----+	-----	+++++	-----	*39:02:01, *39:58 = *39:02:02, *39:58
++-----	-----	+++++	-----	*39:35, *39:41 = *39:35, *39:42 = *39:41, *39:52 = *39:42, *39:52
++-----	-----	+++++	-----	*39:30, *39:35 = *39:30, *39:52
++-----	-----	+++++	-----	*39:01:01:01, *39:34 = *39:01:04, *39:34 = *39:01:09, *39:34 = *39:34, *39:72
++-----	-----	+++++	-----	*39:35, *39:74 = *39:52, *39:74
++-----	-----	+++++	-----	*39:41, *39:48 = *39:42, *39:48
++-----	-----	+++++	-----	*39:35, *39:48 = *39:48, *39:52
++-----	-----	+++++	-----	*39:01:01:01, *39:32 = *39:01:04, *39:32 = *39:01:09, *39:32 = *39:32, *39:48 = *39:32, *39:72 = *39:48, *39:74
++-----	-----	+++++	-----	*39:01:01:02L, *39:41 = *39:01:01:02L, *39:42
++-----	-----	+++++	-----	*39:01:01:02L, *39:35 = *39:01:01:02L, *39:52
++-----	-----	+++++	-----	*39:28, *39:41 = *39:28, *39:42 = *39:41, *39:45 = *39:42, *39:45
++-----	-----	+++++	-----	*39:28, *39:35 = *39:28, *39:52 = *39:35, *39:45 = *39:45, *39:52
++-----	-----	+++++	-----	*39:28, *39:48 = *39:45, *39:48
++-----	-----	+++++	-----	*39:01:01:02L, *39:28 = *39:01:01:02L, *39:45
++-----	-----	+++++	-----	*39:01:05, *39:41 = *39:01:05, *39:42
++-----	-----	+++++	-----	*39:01:05, *39:35 = *39:01:05, *39:52
++-----	-----	+++++	-----	*39:01:05, *39:28 = *39:01:05, *39:45
++-----	-----	+++++	-----	*39:22, *39:41 = *39:22, *39:42
++-----	-----	+++++	-----	*39:22, *39:35 = *39:22, *39:52
++-----	-----	+++++	-----	*39:22, *39:28 = *39:22, *39:45
++-----	-----	+++++	-----	*39:25N, *39:41 = *39:25N, *39:42
++-----	-----	+++++	-----	*39:25N, *39:35 = *39:25N, *39:52
++-----	-----	+++++	-----	*39:25N, *39:28 = *39:25N, *39:45
++-----	-----	+++++	-----	*39:41, *39:70 = *39:42, *39:70
++-----	-----	+++++	-----	*39:35, *39:70 = *39:52, *39:70
++-----	-----	+++++	-----	*39:28, *39:70 = *39:45, *39:70
++-----	-----	+++++	-----	*39:01:01:01, *39:09 = *39:01:04, *39:09 = *39:01:05, *39:09 = *39:01:05, *39:70 = *39:01:09, *39:09 = *39:09, *39:09 = *39:09, *39:70 = *39:09, *39:72
++-----	-----	+++++	-----	*39:12, *39:41 = *39:12, *39:42 = *39:31, *39:41 = *39:31, *39:42 = *39:41, *39:54 = *39:42, *39:54
++-----	-----	+++++	-----	*39:12, *39:30 = *39:30, *39:31 = *39:30, *39:54
++-----	-----	+++++	-----	*39:12, *39:35 = *39:12, *39:52 = *39:31, *39:35 = *39:31, *39:52 = *39:35, *39:54
++-----	-----	+++++	-----	*39:12, *39:74 = *39:31, *39:74 = *39:54, *39:74
++-----	-----	+++++	-----	*39:01:01:01, *39:38Q = *39:01:04, *39:38Q = *39:01:09, *39:38Q = *39:12, *39:38Q = *39:12, *39:48 = *39:31, *39:38Q = *39:31, *39:48 = *39:38Q, *39:38Q = *39:38Q, *39:48 = *39:38Q, *39:54 = *39:38Q, *39:72 = *39:48, *39:54
++-----	-----	+++++	-----	*39:01:01:02L, *39:12 = *39:01:01:02L, *39:31 = *39:01:01:02L, *39:54
++-----	-----	+++++	-----	*39:12, *39:28 = *39:28, *39:31 = *39:28, *39:54 = *39:31, *39:45 = *39:45, *39:54
++-----	-----	+++++	-----	*39:01:05, *39:12 = *39:01:05, *39:31 = *39:01:05, *39:54
++-----	-----	+++++	-----	*39:12, *39:22 = *39:22, *39:31 = *39:22, *39:54
++-----	-----	+++++	-----	*39:12, *39:25N = *39:25N, *39:31 = *39:25N, *39:54
++-----	-----	+++++	-----	*39:12, *39:70 = *39:31, *39:70 = *39:54, *39:70
++-----	-----	+++++	-----	*39:10:01, *39:41 = *39:10:01, *39:42 = *39:10:02, *39:41 = *39:10:02, *39:42
++-----	-----	+++++	-----	*39:10:01, *39:30 = *39:10:02, *39:30
++-----	-----	+++++	-----	*39:10:01, *39:35 = *39:10:02, *39:35
++-----	-----	+++++	-----	*39:10:01, *39:74 = *39:10:02, *39:74
++-----	-----	+++++	-----	*39:01:01:01, *39:63 = *39:10:01, *39:48 = *39:10:02, *39:48 = *39:48, *39:63
++-----	-----	+++++	-----	*39:01:01:02L, *39:10:01 = *39:01:01:02L, *39:10:02
++-----	-----	+++++	-----	*39:10:01, *39:28 = *39:10:02, *39:28
++-----	-----	+++++	-----	*39:01:05, *39:10:01 = *39:01:05, *39:10:02
++-----	-----	+++++	-----	*39:10:01, *39:25N = *39:10:02, *39:25N
++-----	-----	+++++	-----	*39:01:01:01, *39:16 = *39:10:01, *39:70 = *39:10:02, *39:70 = *39:16, *39:70
++-----	-----	+++++	-----	*39:10:01, *39:31 = *39:10:02, *39:31
++-----	-----	+++++	-----	*39:41, *39:44 = *39:42, *39:44
++-----	-----	+++++	-----	*39:35, *39:44 = *39:44, *39:52
++-----	-----	+++++	-----	*39:28, *39:44 = *39:44, *39:45
++-----	-----	+++++	-----	*39:01:01:01, *39:27 = *39:01:04, *39:27 = *39:01:05, *39:27 = *39:01:05,



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Lot-specific information

*39:44 = *39:01:09, *39:27 = *39:27, *39:27 = *39:27, *39:44 = *39:27, *39:72
 *39:12, *39:44 = *39:31, *39:44 = *39:44, *39:54
 *39:10:01, *39:44 = *39:10:02, *39:44
 *39:15, *39:41 = *39:15, *39:42
 *39:15, *39:35 = *39:15, *39:52
 *39:15, *39:28 = *39:15, *39:45
 *39:01:01:01, *39:61 = *39:01:04, *39:61 = *39:01:09, *39:61 = *39:15,
 *39:25N = *39:15, *39:61 = *39:25N, *39:61 = *39:61, *39:61 = *39:61, *39:72
 *39:12, *39:15 = *39:15, *39:31 = *39:15, *39:54
 *39:10:01, *39:15 = *39:10:02, *39:15
 *39:36, *39:41 = *39:41, *39:53 = *39:42, *39:53
 *39:35, *39:36 = *39:35, *39:53 = *39:36, *39:52 = *39:52, *39:53
 *39:01:01:01, *39:33 = *39:01:01:01, *39:40N = *39:01:04, *39:33 =
 *39:01:04, *39:40N = *39:01:09, *39:33 = *39:01:09, *39:40N = *39:33,
 *39:40N = *39:33, *39:53 = *39:33, *39:72 = *39:36, *39:40N = *39:40N,
 *39:40N = *39:40N, *39:53 = *39:40N, *39:72 = *39:40N, *39:74 = *39:53,
 *39:74
 *39:36, *39:48 = *39:48, *39:53
 *39:01:01:02L, *39:36 = *39:01:01:02L, *39:53
 *39:28, *39:53 = *39:36, *39:45 = *39:45, *39:53
 *39:01:05, *39:36 = *39:01:05, *39:53
 *39:22, *39:36 = *39:22, *39:53
 *39:25N, *39:36 = *39:25N, *39:53
 *39:36, *39:70 = *39:53, *39:70
 *39:12, *39:36 = *39:12, *39:53 = *39:31, *39:36 = *39:31, *39:53 = *39:36,
 *39:54 = *39:53, *39:54
 *39:10:01, *39:36 = *39:10:01, *39:53 = *39:10:02, *39:36 = *39:10:02, *39:53
 *39:36, *39:44 = *39:44, *39:53
 *39:15, *39:36 = *39:15, *39:53
 *39:19:01, *39:41 = *39:19:01, *39:42 = *39:19:02, *39:41 = *39:19:02, *39:42
 *39:19:01, *39:30 = *39:19:02, *39:30
 *39:19:01, *39:35 = *39:19:01, *39:52 = *39:19:02, *39:35 = *39:19:02, *39:52
 *39:19:01, *39:74 = *39:19:02, *39:74
 *39:19:01, *39:48 = *39:19:02, *39:48
 *39:01:01:02L, *39:19:01 = *39:01:01:02L, *39:19:02
 *39:19:01, *39:28 = *39:19:02, *39:28 = *39:19:02, *39:45
 *39:01:05, *39:19:01 = *39:01:05, *39:19:02
 *39:19:01, *39:22 = *39:19:02, *39:22
 *39:19:01, *39:25N = *39:19:02, *39:25N
 *39:19:01, *39:70 = *39:19:02, *39:70
 *39:12, *39:19:02 = *39:19:01, *39:31 = *39:19:01, *39:54 = *39:19:02, *39:31
 = *39:19:02, *39:54
 *39:10:01, *39:19:02 = *39:10:02, *39:19:02
 *39:19:01, *39:44 = *39:19:02, *39:44
 *39:15, *39:19:01 = *39:15, *39:19:02
 *39:19:01, *39:36 = *39:19:01, *39:53 = *39:19:02, *39:36 = *39:19:02, *39:53
 *39:41, *39:59 = *39:41, *39:73 = *39:42, *39:59
 *39:35, *39:59 = *39:35, *39:73 = *39:52, *39:59 = *39:52, *39:73
 *39:01:01:01, *39:06:01 = *39:01:04, *39:06:01 = *39:01:09, *39:06:01 =
 *39:06:01, *39:59 = *39:06:01, *39:72
 *39:48, *39:59 = *39:48, *39:73
 *39:01:01:02L, *39:59 = *39:01:01:02L, *39:73
 *39:28, *39:59 = *39:45, *39:59 = *39:45, *39:73
 *39:01:05, *39:59 = *39:01:05, *39:73
 *39:22, *39:59 = *39:22, *39:73
 *39:25N, *39:59 = *39:25N, *39:73
 *39:59, *39:70 = *39:70, *39:73
 *39:12, *39:59 = *39:12, *39:73 = *39:31, *39:59 = *39:31, *39:73 = *39:54,
 *39:59 = *39:54, *39:73
 *39:10:01, *39:59 = *39:10:01, *39:73 = *39:10:02, *39:59 = *39:10:02, *39:73
 *39:44, *39:59 = *39:44, *39:73
 *39:15, *39:59 = *39:15, *39:73
 *39:36, *39:59 = *39:53, *39:59 = *39:53, *39:73



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++-+---+ +-----+ -++-+---+ -----+ *39:19:01, *39:59 = *39:19:01, *39:73 = *39:19:02, *39:59 = *39:19:02, *39:73
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:41 = *39:04, *39:42 = *39:41, *39:46 = *39:41, *39:47 = *39:42,
++-+---+ +-----+ -++-+---+ -----+ *39:46
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:30 = *39:30, *39:46
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:35 = *39:04, *39:52 = *39:35, *39:46 = *39:35, *39:47 = *39:46,
++-+---+ +-----+ -++-+---+ -----+ *39:52 = *39:47, *39:52
++-+---+ +-----+ -++-+---+ -----+ *39:01:01:01, *39:50 = *39:01:04, *39:50 = *39:01:09, *39:50 = *39:04, *39:50
++-+---+ +-----+ -++-+---+ -----+ = *39:46, *39:50 = *39:50, *39:72
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:74 = *39:46, *39:74
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:48 = *39:46, *39:48 = *39:47, *39:48
++-+---+ +-----+ -++-+---+ -----+ *39:01:01:02L, *39:04 = *39:01:01:02L, *39:46 = *39:01:01:02L, *39:47
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:28 = *39:28, *39:46 = *39:45, *39:46 = *39:45, *39:47
++-+---+ +-----+ -++-+---+ -----+ *39:01:05, *39:04 = *39:01:05, *39:46 = *39:01:05, *39:47
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:22 = *39:22, *39:46 = *39:22, *39:47
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:25N = *39:25N, *39:46 = *39:25N, *39:47
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:70 = *39:46, *39:70 = *39:47, *39:70
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:31 = *39:04, *39:54 = *39:12, *39:46 = *39:12, *39:47 = *39:31,
++-+---+ +-----+ -++-+---+ -----+ *39:46 = *39:31, *39:47 = *39:46, *39:54 = *39:47, *39:54
++-+---+ +-----+ -++-+---+ -----+ *39:10:01, *39:46 = *39:10:01, *39:47 = *39:10:02, *39:46 = *39:10:02, *39:47
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:44 = *39:44, *39:46 = *39:44, *39:47
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:15 = *39:15, *39:46 = *39:15, *39:47
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:36 = *39:04, *39:53 = *39:36, *39:46 = *39:46, *39:53 = *39:47,
++-+---+ +-----+ -++-+---+ -----+ *39:53
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:19:02 = *39:19:01, *39:46 = *39:19:01, *39:47 = *39:19:02, *39:46
++-+---+ +-----+ -++-+---+ -----+ = *39:19:02, *39:47
++-+---+ +-----+ -++-+---+ -----+ *39:04, *39:59 = *39:04, *39:73 = *39:46, *39:59 = *39:46, *39:73 = *39:47,
++-+---+ +-----+ -++-+---+ -----+ *39:59
++-+---+ +-----+ -++-+---+ -----+ *39:01:01:01, *39:24:01 = *39:01:04, *39:24:01 = *39:01:09, *39:24:01 =
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:41 = *39:03, *39:42 = *39:24:01, *39:41 = *39:24:01, *39:42 =
++-+---+ +-----+ -++-+---+ -----+ *39:24:01, *39:68 = *39:24:01, *39:72 = *39:41, *39:68 = *39:42, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:35 = *39:03, *39:52 = *39:35, *39:68 = *39:52, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:48 = *39:48, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:01:01:02L, *39:03 = *39:01:01:02L, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:45 = *39:28, *39:68 = *39:45, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:01:05, *39:03 = *39:01:05, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:22 = *39:22, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:25N = *39:25N, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:01:01:01, *39:14 = *39:01:04, *39:14 = *39:01:09, *39:14 = *39:03, *39:70
++-+---+ +-----+ -++-+---+ -----+ = *39:14, *39:68 = *39:14, *39:70 = *39:14, *39:72 = *39:68, *39:70
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:12 = *39:03, *39:31 = *39:03, *39:54 = *39:12, *39:68 = *39:31,
++-+---+ +-----+ -++-+---+ -----+ *39:68 = *39:54, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:01:01:01, *39:17 = *39:03, *39:10:01 = *39:03, *39:10:02 = *39:03, *39:17
++-+---+ +-----+ -++-+---+ -----+ = *39:10:01, *39:68 = *39:10:02, *39:68 = *39:17, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:16 = *39:14, *39:16
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:44 = *39:44, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:15 = *39:15, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:29 = *39:14, *39:29 = *39:29, *39:29
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:53 = *39:36, *39:68 = *39:53, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:19:01 = *39:03, *39:19:02 = *39:19:01, *39:68 = *39:19:02, *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:59 = *39:59, *39:68 = *39:68, *39:73
++-+---+ +-----+ -++-+---+ -----+ *39:03, *39:04 = *39:03, *39:46 = *39:04, *39:68 = *39:46, *39:68 = *39:47,
++-+---+ +-----+ -++-+---+ -----+ *39:68
++-+---+ +-----+ -++-+---+ -----+ *39:39:01, *39:41 = *39:39:01, *39:42 = *39:39:02, *39:41 = *39:39:02, *39:42
++-+---+ +-----+ -++-+---+ -----+ *39:30, *39:39:01 = *39:30, *39:39:02
++-+---+ +-----+ -++-+---+ -----+ *39:35, *39:39:01 = *39:35, *39:39:02
++-+---+ +-----+ -++-+---+ -----+ *39:39:01, *39:74 = *39:39:02, *39:74
++-+---+ +-----+ -++-+---+ -----+ *39:39:01, *39:48 = *39:39:02, *39:48
++-+---+ +-----+ -++-+---+ -----+ *39:01:01:02L, *39:39:01 = *39:01:01:02L, *39:39:02
++-+---+ +-----+ -++-+---+ -----+ *39:28, *39:39:01 = *39:28, *39:39:02 = *39:39:01, *39:45
++-+---+ +-----+ -++-+---+ -----+ *39:01:05, *39:39:01 = *39:01:05, *39:39:02
++-+---+ +-----+ -++-+---+ -----+ *39:01:01:01, *39:02:01 = *39:01:01:01, *39:02:02 = *39:01:04, *39:02:01 =
++-+---+ +-----+ -++-+---+ -----+ *39:01:09, *39:02:01 = *39:02:01, *39:72 = *39:22, *39:39:01 = *39:22,
++-+---+ +-----+ -++-+---+ -----+ *39:39:02



101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 47R

Lot-specific information

++-+---	-----	+--++++	-----	*39:25N, *39:39:01 = *39:25N, *39:39:02
++-+---	-----+	+--++++	-----	*39:39:01, *39:70 = *39:39:02, *39:70
++-+---	-----+	+--++++	-----	*39:12, *39:39:01 = *39:31, *39:39:01 = *39:31, *39:39:02
++-+---	-----	+--++++	-----	*39:39:01, *39:44 = *39:39:02, *39:44
++-+---	-----	+--++++	-----	*39:15, *39:39:01 = *39:15, *39:39:02
++-+---	-----	+--++++	-----	*39:36, *39:39:01 = *39:36, *39:39:02 = *39:39:01, *39:53 = *39:39:02, *39:53
++-+---	-----	+--++++	-----	*39:19:01, *39:39:01 = *39:19:02, *39:39:01 = *39:19:02, *39:39:02
++-+---	-----	+--++++	-----	*39:39:01, *39:59 = *39:39:01, *39:73 = *39:39:02, *39:59 = *39:39:02, *39:73
++-+---	-----	+--++++	-----	*39:04, *39:39:01 = *39:39:01, *39:46 = *39:39:01, *39:47 = *39:39:02, *39:46 = *39:39:02, *39:47
++-+---	-----	+--++++	-----	*39:03, *39:39:01 = *39:03, *39:39:02 = *39:39:01, *39:68 = *39:39:02, *39:68
++-+---	-----	+--++++	-----	*39:26, *39:41 = *39:26, *39:42 = *39:41, *39:58 = *39:42, *39:58
++-+---	-----	+--++++	-----	*39:26, *39:30 = *39:30, *39:58
++-+---	-----	+--++++	-----	*39:26, *39:35 = *39:26, *39:52 = *39:35, *39:58
++-+---	-----	+--++++	-----	*39:26, *39:74 = *39:58, *39:74
++-+---	-----	+--++++	-----	*39:26, *39:48 = *39:48, *39:58
++-+---	-----	+--++++	-----	*39:01:01:02L, *39:26 = *39:01:01:02L, *39:58
++-+---	-----	+--++++	-----	*39:26, *39:28 = *39:26, *39:45 = *39:28, *39:58 = *39:45, *39:58
++-+---	-----	+--++++	-----	*39:01:05, *39:26 = *39:01:05, *39:58
++-+---	-----	+--++++	-----	*39:22, *39:26 = *39:22, *39:58
++-+---	-----	+--++++	-----	*39:25N, *39:26 = *39:25N, *39:58
++-+---	-----	+--++++	-----	*39:26, *39:70 = *39:58, *39:70
++-+---	-----	+--++++	-----	*39:12, *39:26 = *39:12, *39:58 = *39:26, *39:31 = *39:26, *39:54 = *39:31, *39:58
++-+---	-----	+--++++	-----	*39:10:01, *39:26 = *39:10:02, *39:26
++-+---	-----	+--++++	-----	*39:01:01:01, *39:51 = *39:01:04, *39:51 = *39:01:09, *39:51 = *39:26, *39:44 = *39:26, *39:51 = *39:44, *39:51 = *39:44, *39:58 = *39:51, *39:51 = *39:51, *39:58 = *39:51, *39:72
++-+---	-----	+--++++	-----	*39:15, *39:26 = *39:15, *39:58
++-+---	-----	+--++++	-----	*39:26, *39:36 = *39:26, *39:53 = *39:36, *39:58 = *39:53, *39:58
++-+---	-----	+--++++	-----	*39:19:01, *39:26 = *39:19:01, *39:58 = *39:19:02, *39:26 = *39:19:02, *39:58
++-+---	-----	+--++++	-----	*39:26, *39:59 = *39:26, *39:73 = *39:58, *39:59 = *39:58, *39:73
++-+---	-----	+--++++	-----	*39:04, *39:26 = *39:04, *39:58 = *39:26, *39:46 = *39:26, *39:47 = *39:46, *39:58 = *39:47, *39:58
++-+---	-----	+--++++	-----	*39:03, *39:26 = *39:03, *39:58 = *39:26, *39:68 = *39:58, *39:68
++-+---	-----	+--++++	-----	*39:26, *39:39:01 = *39:26, *39:39:02
++-+---	-----	+--++++	-----	*39:05:01, *39:41 = *39:05:01, *39:42
++-+---	-----	+--++++	-----	*39:01:01:01, *39:43 = *39:01:04, *39:43 = *39:01:09, *39:43 = *39:05:01, *39:30 = *39:05:01, *39:43 = *39:43, *39:72
++-+---	-----	+--++++	-----	*39:05:01, *39:35 = *39:05:01, *39:52
++-+---	-----	+--++++	-----	*39:01:01:01, *39:56 = *39:05:01, *39:74 = *39:56, *39:72 = *39:56, *39:74
++-+---	-----	+--++++	-----	*39:05:01, *39:28 = *39:05:01, *39:45
++-+---	-----	+--++++	-----	*39:05:01, *39:12 = *39:05:01, *39:31 = *39:05:01, *39:54
++-+---	-----	+--++++	-----	*39:10:01, *39:56 = *39:10:02, *39:56 = *39:20, *39:56
++-+---	-----	+--++++	-----	*39:01:01:01, *39:55 = *39:05:01, *39:15 = *39:15, *39:55 = *39:55, *39:72
++-+---	-----	+--++++	-----	*39:10:01, *39:55 = *39:10:02, *39:55 = *39:20, *39:55
++-+---	-----	+--++++	-----	*39:01:01:01, *39:11 = *39:05:01, *39:36 = *39:05:01, *39:53 = *39:11, *39:36 = *39:11, *39:53 = *39:11, *39:72
++-+---	-----	+--++++	-----	*39:10:01, *39:11 = *39:10:02, *39:11 = *39:11, *39:20
++-+---	-----	+--++++	-----	*39:01:04, *39:07 = *39:01:09, *39:07 = *39:05:01, *39:07 = *39:07, *39:07 = *39:07, *39:19:01 = *39:07, *39:55 = *39:19:01, *39:55
++-+---	-----	+--++++	-----	*39:05:01, *39:59 = *39:05:01, *39:73
++-+---	-----	+--++++	-----	*39:04, *39:05:01 = *39:05:01, *39:46 = *39:05:01, *39:47
++-+---	-----	+--++++	-----	*39:03, *39:43 = *39:30, *39:37 = *39:37, *39:43
++-+---	-----	+--++++	-----	*39:01:01:01, *39:37 = *39:03, *39:05:01 = *39:05:01, *39:68 = *39:37, *39:68 = *39:37, *39:72
++-+---	-----	+--++++	-----	*39:05:01, *39:17 = *39:10:01, *39:37 = *39:10:02, *39:37 = *39:17, *39:37 = *39:20, *39:37
++-+---	-----	+--++++	-----	*39:01:04, *39:13:01 = *39:02:02, *39:05:01 = *39:05:01, *39:13:01
++-+---	-----	+--++++	-----	*39:05:01, *39:26 = *39:05:01, *39:58
++-+---	-----	+--++++	-----	*39:08, *39:10:01 = *39:08, *39:20
++-+---	-----	+--++++	-----	*39:34, *39:35 = *39:34, *39:52
++-+---	-----	+--++++	-----	*39:32, *39:35 = *39:32, *39:52



101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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++-+-----	-----+	++++++	-----+	*39:09, *39:41 = *39:09, *39:42
++-+-----	-----+	++++++	-----+	*39:09, *39:35 = *39:09, *39:52
++-+-----	-----+	++++++	-----+	*39:09, *39:28 = *39:09, *39:45
++-+-----	-----+	++++++	-----+	*39:12, *39:34 = *39:31, *39:34 = *39:34, *39:54
++-+-----	-----+	++++++	-----+	*39:38Q, *39:41 = *39:38Q, *39:42
++-+-----	-----+	++++++	-----+	*39:35, *39:38Q = *39:38Q, *39:52
++-+-----	-----+	++++++	-----+	*39:12, *39:32 = *39:31, *39:32 = *39:32, *39:38Q = *39:32, *39:54 = *39:38Q, *39:74
++-+-----	-----+	++++++	-----+	*39:28, *39:38Q = *39:38Q, *39:45
++-+-----	-----+	++++++	-----+	*39:09, *39:12 = *39:09, *39:31 = *39:09, *39:54
++-+-----	-----+	++++++	-----+	*39:10:01, *39:34 = *39:10:02, *39:34
++-+-----	-----+	++++++	-----+	*39:41, *39:63 = *39:42, *39:63
++-+-----	-----+	++++++	-----+	*39:10:01, *39:32 = *39:10:02, *39:32 = *39:32, *39:63 = *39:63, *39:74
++-+-----	-----+	++++++	-----+	*39:16, *39:41 = *39:16, *39:42
++-+-----	-----+	++++++	-----+	*39:16, *39:48 = *39:63, *39:70
++-+-----	-----+	++++++	-----+	*39:01:05, *39:16 = *39:09, *39:10:01 = *39:09, *39:10:02 = *39:09, *39:16
++-+-----	-----+	++++++	-----+	*39:10:01, *39:38Q = *39:10:02, *39:38Q = *39:31, *39:63 = *39:38Q, *39:63
++-+-----	-----+	++++++	-----+	*39:27, *39:41 = *39:27, *39:42
++-+-----	-----+	++++++	-----+	*39:27, *39:35 = *39:27, *39:52
++-+-----	-----+	++++++	-----+	*39:27, *39:28 = *39:27, *39:45
++-+-----	-----+	++++++	-----+	*39:09, *39:27 = *39:09, *39:44 = *39:27, *39:70
++-+-----	-----+	++++++	-----+	*39:12, *39:27 = *39:27, *39:31 = *39:27, *39:54
++-+-----	-----+	++++++	-----+	*39:10:01, *39:27 = *39:10:02, *39:27
++-+-----	-----+	++++++	-----+	*39:41, *39:61 = *39:42, *39:61
++-+-----	-----+	++++++	-----+	*39:35, *39:61 = *39:52, *39:61
++-+-----	-----+	++++++	-----+	*39:28, *39:61 = *39:45, *39:61
++-+-----	-----+	++++++	-----+	*39:12, *39:61 = *39:31, *39:61 = *39:54, *39:61
++-+-----	-----+	++++++	-----+	*39:10:01, *39:61 = *39:10:02, *39:61
++-+-----	-----+	++++++	-----+	*39:33, *39:41 = *39:40N, *39:41 = *39:40N, *39:42
++-+-----	-----+	++++++	-----+	*39:33, *39:35 = *39:33, *39:52 = *39:35, *39:40N = *39:40N, *39:52
++-+-----	-----+	++++++	-----+	*39:32, *39:40N = *39:32, *39:53 = *39:33, *39:48 = *39:40N, *39:48
++-+-----	-----+	++++++	-----+	*39:01:01:02L, *39:33 = *39:01:01:02L, *39:40N
++-+-----	-----+	++++++	-----+	*39:28, *39:40N = *39:33, *39:45 = *39:40N, *39:45
++-+-----	-----+	++++++	-----+	*39:01:01:01, *39:18 = *39:01:04, *39:18 = *39:01:05, *39:18 = *39:01:09, *39:18 = *39:18, *39:18 = *39:18, *39:35 = *39:18, *39:36 = *39:18, *39:52 = *39:18, *39:53 = *39:18, *39:72
++-+-----	-----+	++++++	-----+	*39:01:05, *39:33 = *39:01:05, *39:40N
++-+-----	-----+	++++++	-----+	*39:22, *39:33 = *39:22, *39:40N
++-+-----	-----+	++++++	-----+	*39:25N, *39:33 = *39:25N, *39:40N
++-+-----	-----+	++++++	-----+	*39:33, *39:70 = *39:40N, *39:70
++-+-----	-----+	++++++	-----+	*39:09, *39:36 = *39:09, *39:53
++-+-----	-----+	++++++	-----+	*39:12, *39:33 = *39:12, *39:40N = *39:31, *39:33 = *39:31, *39:40N = *39:33, *39:54 = *39:40N, *39:54
++-+-----	-----+	++++++	-----+	*39:36, *39:38Q = *39:38Q, *39:53
++-+-----	-----+	++++++	-----+	*39:10:01, *39:33 = *39:10:01, *39:40N = *39:10:02, *39:33 = *39:10:02, *39:40N
++-+-----	-----+	++++++	-----+	*39:36, *39:63 = *39:53, *39:63
++-+-----	-----+	++++++	-----+	*39:33, *39:44 = *39:40N, *39:44
++-+-----	-----+	++++++	-----+	*39:27, *39:36 = *39:27, *39:53
++-+-----	-----+	++++++	-----+	*39:15, *39:33 = *39:15, *39:40N
++-+-----	-----+	++++++	-----+	*39:36, *39:61 = *39:53, *39:61
++-+-----	-----+	++++++	-----+	*39:19:01, *39:34 = *39:19:02, *39:34
++-+-----	-----+	++++++	-----+	*39:19:01, *39:32 = *39:19:02, *39:32
++-+-----	-----+	++++++	-----+	*39:09, *39:19:01 = *39:09, *39:19:02
++-+-----	-----+	++++++	-----+	*39:19:01, *39:38Q = *39:19:02, *39:38Q
++-+-----	-----+	++++++	-----+	*39:19:01, *39:27 = *39:19:02, *39:27
++-+-----	-----+	++++++	-----+	*39:19:01, *39:61 = *39:19:02, *39:61
++-+-----	-----+	++++++	-----+	*39:19:01, *39:33 = *39:19:01, *39:40N = *39:19:02, *39:33 = *39:19:02, *39:40N
++-+-----	-----+	++++++	-----+	*39:01:01:01, *39:62 = *39:01:04, *39:62 = *39:01:09, *39:62 = *39:06:01, *39:35 = *39:06:01, *39:52 = *39:35, *39:62 = *39:52, *39:62 = *39:59, *39:62 = *39:62, *39:72
++-+-----	-----+	++++++	-----+	*39:09, *39:59 = *39:09, *39:73



101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

++-+-----	+-----+	---+-----	-----	*39:06:01, *39:12 = *39:06:01, *39:31 = *39:06:01, *39:54
++-+-----	+-----+	---+-----	-----	*39:38Q, *39:59 = *39:38Q, *39:73
++-+-----	+-----+	---+-----	-----	*39:06:01, *39:10:01 = *39:06:01, *39:10:02
++-+-----	+-----+	---+-----	-----	*39:59, *39:63 = *39:63, *39:73
++-+-----	+-----+	---+-----	-----	*39:27, *39:59 = *39:27, *39:73
++-+-----	+-----+	---+-----	-----	*39:59, *39:61 = *39:61, *39:73
++-+-----	+-----+	---+-----	-----	*39:01:01:01, *39:57 = *39:01:04, *39:57 = *39:01:09, *39:57 = *39:06:01, *39:53 = *39:53, *39:57 = *39:57, *39:59 = *39:57, *39:72
++-+-----	+-----+	---+-----	-----	*39:33, *39:59 = *39:40N, *39:59 = *39:40N, *39:73
++-+-----	+-----+	---+-----	-----	*39:06:01, *39:19:01 = *39:06:01, *39:19:02
++-+-----	+-----+	---+-----	-----	*39:04, *39:34 = *39:34, *39:46
++-+-----	+-----+	---+-----	-----	*39:35, *39:50 = *39:50, *39:52
++-+-----	+-----+	---+-----	-----	*39:04, *39:32 = *39:32, *39:46
++-+-----	+-----+	---+-----	-----	*39:04, *39:09 = *39:09, *39:46 = *39:09, *39:47
++-+-----	+-----+	---+-----	-----	*39:12, *39:50 = *39:31, *39:50 = *39:50, *39:54
++-+-----	+-----+	---+-----	-----	*39:04, *39:38Q = *39:38Q, *39:46 = *39:38Q, *39:47
++-+-----	+-----+	---+-----	-----	*39:10:01, *39:50 = *39:10:02, *39:50
++-+-----	+-----+	---+-----	-----	*39:46, *39:63 = *39:47, *39:63
++-+-----	+-----+	---+-----	-----	*39:04, *39:27 = *39:27, *39:46 = *39:27, *39:47
++-+-----	+-----+	---+-----	-----	*39:04, *39:61 = *39:46, *39:61 = *39:47, *39:61
++-+-----	+-----+	---+-----	-----	*39:04, *39:33 = *39:04, *39:40N = *39:33, *39:46 = *39:40N, *39:46 = *39:40N, *39:47
++-+-----	+-----+	---+-----	-----	*39:19:01, *39:50 = *39:19:02, *39:50
++-+-----	+-----+	---+-----	-----	*39:04, *39:06:01 = *39:06:01, *39:46 = *39:50, *39:59
++-+-----	+-----+	---+-----	-----	*39:24:01, *39:35 = *39:24:01, *39:52
++-+-----	+-----+	---+-----	-----	*39:14, *39:41 = *39:14, *39:42 = *39:24:01, *39:70
++-+-----	+-----+	---+-----	-----	*39:14, *39:35 = *39:14, *39:52
++-+-----	+-----+	---+-----	-----	*39:01:05, *39:14 = *39:03, *39:09 = *39:09, *39:14 = *39:09, *39:68
++-+-----	+-----+	---+-----	-----	*39:12, *39:24:01 = *39:24:01, *39:31 = *39:24:01, *39:54
++-+-----	+-----+	---+-----	-----	*39:03, *39:38Q = *39:38Q, *39:68
++-+-----	+-----+	---+-----	-----	*39:12, *39:14 = *39:14, *39:31 = *39:14, *39:54
++-+-----	+-----+	---+-----	-----	*39:10:01, *39:24:01 = *39:10:02, *39:24:01 = *39:17, *39:24:01 = *39:17, *39:41 = *39:17, *39:42
++-+-----	+-----+	---+-----	-----	*39:03, *39:63 = *39:17, *39:48 = *39:63, *39:68
++-+-----	+-----+	---+-----	-----	*39:10:01, *39:14 = *39:10:02, *39:14 = *39:14, *39:17 = *39:16, *39:68 = *39:17, *39:70
++-+-----	+-----+	---+-----	-----	*39:03, *39:27 = *39:27, *39:68
++-+-----	+-----+	---+-----	-----	*39:03, *39:61 = *39:61, *39:68
++-+-----	+-----+	---+-----	-----	*39:01:01:01, *39:29 = *39:01:04, *39:29 = *39:01:09, *39:29 = *39:14, *39:15 = *39:15, *39:29 = *39:29, *39:68 = *39:29, *39:70 = *39:29, *39:72
++-+-----	+-----+	---+-----	-----	*39:03, *39:40N = *39:33, *39:68 = *39:40N, *39:68
++-+-----	+-----+	---+-----	-----	*39:17, *39:36 = *39:17, *39:53
++-+-----	+-----+	---+-----	-----	*39:19:01, *39:24:01 = *39:19:02, *39:24:01
++-+-----	+-----+	---+-----	-----	*39:14, *39:19:01 = *39:14, *39:19:02
++-+-----	+-----+	---+-----	-----	*39:17, *39:59 = *39:17, *39:73
++-+-----	+-----+	---+-----	-----	*39:04, *39:24:01 = *39:24:01, *39:46
++-+-----	+-----+	---+-----	-----	*39:04, *39:14 = *39:14, *39:46
++-+-----	+-----+	---+-----	-----	*39:17, *39:46 = *39:17, *39:47
++-+-----	+-----+	---+-----	-----	*39:34, *39:39:01 = *39:34, *39:39:02
++-+-----	+-----+	---+-----	-----	*39:32, *39:39:01 = *39:32, *39:39:02
++-+-----	+-----+	---+-----	-----	*39:02:01, *39:41 = *39:02:01, *39:42 = *39:02:02, *39:41 = *39:02:02, *39:42
++-+-----	+-----+	---+-----	-----	*39:02:01, *39:30 = *39:02:02, *39:30
++-+-----	+-----+	---+-----	-----	*39:02:01, *39:35 = *39:02:02, *39:35
++-+-----	+-----+	---+-----	-----	*39:02:01, *39:74 = *39:02:02, *39:74
++-+-----	+-----+	---+-----	-----	*39:02:01, *39:48 = *39:02:02, *39:48
++-+-----	+-----+	---+-----	-----	*39:01:01:02L, *39:02:01 = *39:01:01:02L, *39:02:02
++-+-----	+-----+	---+-----	-----	*39:02:01, *39:28 = *39:02:01, *39:45 = *39:02:02, *39:28
++-+-----	+-----+	---+-----	-----	*39:01:05, *39:02:01 = *39:01:05, *39:02:02
++-+-----	+-----+	---+-----	-----	*39:02:01, *39:25N = *39:02:02, *39:25N
++-+-----	+-----+	---+-----	-----	*39:09, *39:39:01 = *39:09, *39:39:02
++-+-----	+-----+	---+-----	-----	*39:02:01, *39:70 = *39:02:02, *39:70
++-+-----	+-----+	---+-----	-----	*39:38Q, *39:39:01 = *39:38Q, *39:39:02
++-+-----	+-----+	---+-----	-----	*39:02:01, *39:12 = *39:02:01, *39:31 = *39:02:02, *39:31



101.566-12/04 – including Taq polymerase, IFU-01
101.566-12u/04u – without Taq polymerase, IFU-02

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++-+---	-----	+++----	-----	*39:27, *39:39:01 = *39:27, *39:39:02
++-+---	-----	+++----	-----	*39:01:01:01, *39:23 = *39:02:01, *39:44 = *39:02:02, *39:44 = *39:23, *39:44
++-+---	-----	+++----	-----	*39:02:01, *39:15 = *39:02:02, *39:15
++-+---	-----	+++----	-----	*39:39:01, *39:61 = *39:39:02, *39:61
++-+---	-----	+++----	-----	*39:33, *39:39:01 = *39:33, *39:39:02 = *39:39:01, *39:40N = *39:39:02, *39:40N
++-+---	-----	+++----	-----	*39:02:01, *39:36 = *39:02:01, *39:53 = *39:02:02, *39:36 = *39:02:02, *39:53
++-+---	-----	+++----	-----	*39:02:01, *39:19:01 = *39:02:01, *39:19:02 = *39:02:02, *39:19:02
++-+---	-----	+++----	-----	*39:06:01, *39:39:01 = *39:06:01, *39:39:02
++-+---	-----	+++----	-----	*39:02:01, *39:59 = *39:02:01, *39:73 = *39:02:02, *39:59 = *39:02:02, *39:73
++-+---	-----	+++----	-----	*39:39:01, *39:50 = *39:39:02, *39:50
++-+---	-----	+++----	-----	*39:02:01, *39:04 = *39:02:01, *39:46 = *39:02:01, *39:47 = *39:02:02, *39:46 = *39:02:02, *39:47
++-+---	-----	+++----	-----	*39:24:01, *39:39:01 = *39:24:01, *39:39:02
++-+---	-----	+++----	-----	*39:02:01, *39:03 = *39:02:01, *39:68 = *39:02:02, *39:03 = *39:02:02, *39:68
++-+---	-----	+++----	-----	*39:14, *39:39:01 = *39:14, *39:39:02
++-+---	-----	+++----	-----	*39:26, *39:34 = *39:34, *39:58
++-+---	-----	+++----	-----	*39:26, *39:32 = *39:32, *39:58
++-+---	-----	+++----	-----	*39:09, *39:26 = *39:09, *39:58
++-+---	-----	+++----	-----	*39:26, *39:38Q = *39:38Q, *39:58
++-+---	-----	+++----	-----	*39:41, *39:51 = *39:42, *39:51
++-+---	-----	+++----	-----	*39:35, *39:51 = *39:51, *39:52
++-+---	-----	+++----	-----	*39:28, *39:51 = *39:45, *39:51
++-+---	-----	+++----	-----	*39:01:05, *39:51 = *39:26, *39:27 = *39:27, *39:51 = *39:27, *39:58
++-+---	-----	+++----	-----	*39:12, *39:51 = *39:31, *39:51 = *39:51, *39:54
++-+---	-----	+++----	-----	*39:10:01, *39:51 = *39:10:02, *39:51
++-+---	-----	+++----	-----	*39:26, *39:61 = *39:58, *39:61
++-+---	-----	+++----	-----	*39:26, *39:33 = *39:26, *39:40N = *39:33, *39:58 = *39:40N, *39:58
++-+---	-----	+++----	-----	*39:36, *39:51 = *39:51, *39:53
++-+---	-----	+++----	-----	*39:19:01, *39:51 = *39:19:02, *39:51
++-+---	-----	+++----	-----	*39:06:01, *39:26 = *39:06:01, *39:58
++-+---	-----	+++----	-----	*39:51, *39:59 = *39:51, *39:73
++-+---	-----	+++----	-----	*39:26, *39:50 = *39:50, *39:58
++-+---	-----	+++----	-----	*39:04, *39:51 = *39:46, *39:51 = *39:47, *39:51
++-+---	-----	+++----	-----	*39:24:01, *39:26 = *39:24:01, *39:58
++-+---	-----	+++----	-----	*39:14, *39:26 = *39:14, *39:58
++-+---	-----	+++----	-----	*39:03, *39:51 = *39:51, *39:68
++-+---	-----	+++----	-----	*39:02:01, *39:26 = *39:02:02, *39:26
++-+---	-----	+++----	-----	*39:39:01, *39:51 = *39:39:02, *39:51
++-+---	-----	+++----	-----	*39:35, *39:43 = *39:43, *39:52
++-+---	-----	+++----	-----	*39:41, *39:56 = *39:42, *39:56
++-+---	-----	+++----	-----	*39:30, *39:56 = *39:43, *39:56
++-+---	-----	+++----	-----	*39:35, *39:56 = *39:52, *39:56
++-+---	-----	+++----	-----	*39:05:01, *39:32 = *39:32, *39:56 = *39:48, *39:56
++-+---	-----	+++----	-----	*39:28, *39:56 = *39:45, *39:56
++-+---	-----	+++----	-----	*39:12, *39:43 = *39:31, *39:43 = *39:43, *39:54
++-+---	-----	+++----	-----	*39:12, *39:56 = *39:31, *39:56 = *39:54, *39:56
++-+---	-----	+++----	-----	*39:20, *39:41 = *39:20, *39:42
++-+---	-----	+++----	-----	*39:10:01, *39:43 = *39:10:02, *39:43 = *39:20, *39:30 = *39:20, *39:43
++-+---	-----	+++----	-----	*39:41, *39:55 = *39:42, *39:55
++-+---	-----	+++----	-----	*39:15, *39:43 = *39:30, *39:55 = *39:43, *39:55
++-+---	-----	+++----	-----	*39:35, *39:55 = *39:52, *39:55
++-+---	-----	+++----	-----	*39:15, *39:56 = *39:55, *39:74
++-+---	-----	+++----	-----	*39:28, *39:55 = *39:45, *39:55
++-+---	-----	+++----	-----	*39:05:01, *39:61 = *39:25N, *39:55 = *39:55, *39:61
++-+---	-----	+++----	-----	*39:12, *39:55 = *39:31, *39:55 = *39:54, *39:55
++-+---	-----	+++----	-----	*39:11, *39:41 = *39:11, *39:42
++-+---	-----	+++----	-----	*39:11, *39:30 = *39:11, *39:43 = *39:43, *39:53
++-+---	-----	+++----	-----	*39:11, *39:35 = *39:11, *39:52
++-+---	-----	+++----	-----	*39:05:01, *39:33 = *39:05:01, *39:40N = *39:11, *39:33 = *39:11, *39:40N = *39:11, *39:74 = *39:33, *39:56 = *39:36, *39:56 = *39:40N, *39:56 = *39:53, *39:56
++-+---	-----	+++----	-----	*39:11, *39:28 = *39:11, *39:45

101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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+++-----	-----+	---+-----	-----	*39:11, *39:12 = *39:11, *39:31 = *39:11, *39:54
+++-----	-----+	---+-----	-----	*39:20, *39:36 = *39:20, *39:53
+++-----	-----+	---+-----	-----	*39:11, *39:15 = *39:36, *39:55 = *39:53, *39:55
+++-----	-----+	---+-----	-----	*39:19:01, *39:43 = *39:19:02, *39:43
+++-----	-----+	---+-----	-----	*39:01:01:01, *39:07 = *39:07, *39:15 = *39:07, *39:19:02 = *39:07, *39:72 = *39:19:02, *39:55
+++-----	-----+	---+-----	-----	*39:07, *39:10:01 = *39:07, *39:10:02 = *39:07, *39:20
+++-----	-----+	---+-----	-----	*39:56, *39:59 = *39:56, *39:73
+++-----	-----+	---+-----	-----	*39:20, *39:59 = *39:20, *39:73
+++-----	-----+	---+-----	-----	*39:55, *39:59 = *39:55, *39:73
+++-----	-----+	---+-----	-----	*39:11, *39:59 = *39:11, *39:73
+++-----	-----+	---+-----	-----	*39:04, *39:43 = *39:43, *39:46
+++-----	-----+	---+-----	-----	*39:04, *39:56 = *39:46, *39:56 = *39:47, *39:56
+++-----	-----+	---+-----	-----	*39:20, *39:46 = *39:20, *39:47
+++-----	-----+	---+-----	-----	*39:04, *39:55 = *39:46, *39:55 = *39:47, *39:55
+++-----	-----+	---+-----	-----	*39:04, *39:11 = *39:11, *39:46 = *39:11, *39:47
+++-----	-----+	---+-----	-----	*39:05:01, *39:24:01 = *39:37, *39:41 = *39:37, *39:42
+++-----	-----+	---+-----	-----	*39:35, *39:37 = *39:37, *39:52
+++-----	-----+	---+-----	-----	*39:03, *39:56 = *39:56, *39:68
+++-----	-----+	---+-----	-----	*39:05:01, *39:14 = *39:37, *39:70
+++-----	-----+	---+-----	-----	*39:12, *39:37 = *39:31, *39:37 = *39:37, *39:54
+++-----	-----+	---+-----	-----	*39:03, *39:20 = *39:20, *39:68
+++-----	-----+	---+-----	-----	*39:03, *39:55 = *39:15, *39:37 = *39:55, *39:68
+++-----	-----+	---+-----	-----	*39:03, *39:11 = *39:11, *39:68 = *39:37, *39:53
+++-----	-----+	---+-----	-----	*39:04, *39:37 = *39:37, *39:46
+++-----	-----+	---+-----	-----	*39:39:01, *39:43 = *39:39:02, *39:43
+++-----	-----+	---+-----	-----	*39:02:02, *39:56 = *39:13:01, *39:56
+++-----	-----+	---+-----	-----	*39:01:01:01, *39:13:01 = *39:02:01, *39:05:01
+++-----	-----+	---+-----	-----	*39:01:04, *39:49 = *39:02:02, *39:55 = *39:05:01, *39:49 = *39:13:01, *39:55 = *39:49, *39:55
+++-----	-----+	---+-----	-----	*39:01:04, *39:08 = *39:01:09, *39:08 = *39:02:02, *39:11 = *39:05:01, *39:08 = *39:08, *39:11 = *39:11, *39:13:01
+++-----	-----+	---+-----	-----	*39:02:02, *39:37 = *39:13:01, *39:37
++++-----	-----	---+-----	-----	*39:26, *39:43 = *39:43, *39:58
++++-----	-----	---+-----	-----	*39:26, *39:56 = *39:56, *39:58
++++-----	-----	---+-----	-----	*39:26, *39:55 = *39:55, *39:58
++++-----	-----	---+-----	-----	*39:11, *39:26 = *39:11, *39:58
++++-----	-----	---+-----	-----	*39:26, *39:37 = *39:37, *39:58
++-----	-----	---+-----	-----	*39:18, *39:41 = *39:18, *39:42
++-----	-----	---+-----	-----	*39:18, *39:33 = *39:18, *39:40N = *39:18, *39:74
++-----	-----	---+-----	-----	*39:18, *39:28 = *39:18, *39:45
++-----	-----	---+-----	-----	*39:09, *39:18 = *39:18, *39:70
++-----	-----	---+-----	-----	*39:09, *39:33 = *39:09, *39:40N
++-----	-----	---+-----	-----	*39:33, *39:38Q = *39:38Q, *39:40N
++-----	-----	---+-----	-----	*39:12, *39:18 = *39:18, *39:31 = *39:18, *39:54
++-----	-----	---+-----	-----	*39:33, *39:63 = *39:40N, *39:63
++-----	-----	---+-----	-----	*39:10:01, *39:18 = *39:10:02, *39:18
++-----	-----	---+-----	-----	*39:18, *39:27 = *39:18, *39:44
++-----	-----	---+-----	-----	*39:27, *39:33 = *39:27, *39:40N
++-----	-----	---+-----	-----	*39:33, *39:61 = *39:40N, *39:61
++-----	-----	---+-----	-----	*39:18, *39:19:01 = *39:18, *39:19:02
++-----	-----	---+-----	-----	*39:12, *39:62 = *39:31, *39:62 = *39:54, *39:62
++-----	-----	---+-----	-----	*39:10:01, *39:62 = *39:10:02, *39:62
++-----	-----	---+-----	-----	*39:35, *39:57 = *39:52, *39:57 = *39:53, *39:62
++-----	-----	---+-----	-----	*39:06:01, *39:40N = *39:40N, *39:57
++-----	-----	---+-----	-----	*39:18, *39:59 = *39:18, *39:73
++-----	-----	---+-----	-----	*39:12, *39:57 = *39:31, *39:57 = *39:54, *39:57
++-----	-----	---+-----	-----	*39:10:01, *39:57 = *39:10:02, *39:57
++-----	-----	---+-----	-----	*39:19:01, *39:62 = *39:19:02, *39:62
++-----	-----	---+-----	-----	*39:19:01, *39:57 = *39:19:02, *39:57
++-----	-----	---+-----	-----	*39:04, *39:18 = *39:18, *39:46 = *39:18, *39:47
++-----	-----	---+-----	-----	*39:04, *39:62 = *39:46, *39:62
++-----	-----	---+-----	-----	*39:04, *39:57 = *39:46, *39:57



101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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++-++-+-	---+---+	---+---+	-----+	*39:29, *39:41 = *39:29, *39:42
++-++-+-	---+---+	---+---+	-----+	*39:29, *39:35 = *39:29, *39:52
++-++-+-	---+---+	---+---+	-----+	*39:01:05, *39:29 = *39:09, *39:29
++-++-+-	---+---+	++-++-+-	-----+	*39:14, *39:61 = *39:25N, *39:29 = *39:29, *39:61
++-++-+-	---+---+	---+---+	-----+	*39:12, *39:29 = *39:29, *39:31 = *39:29, *39:54
++-++-+-	---+---+	---+---+	-----+	*39:10:01, *39:29 = *39:10:02, *39:29 = *39:17, *39:29
++-++-+-	---+---+	---+---+	-----+	*39:03, *39:18 = *39:18, *39:68
++-++-+-	---+---+	---+---+	-----+	*39:17, *39:33 = *39:17, *39:40N
++-++-+-	---+---+	---+---+	-----+	*39:19:01, *39:29 = *39:19:02, *39:29
++-++-+-	---+---+	---+---+	-----+	*39:04, *39:29 = *39:29, *39:46
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:34 = *39:02:02, *39:34
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:32 = *39:02:02, *39:32
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:09 = *39:02:02, *39:09
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:38Q = *39:02:02, *39:38Q
++-++-+-	---+---+	---+---+	-----+	*39:23, *39:41 = *39:23, *39:42
++-++-+-	---+---+	---+---+	-----+	*39:01:05, *39:23 = *39:02:01, *39:27 = *39:02:02, *39:27 = *39:23, *39:27
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:61 = *39:02:02, *39:61
++-++-+-	---+---+	---+---+	-----+	*39:18, *39:39:01 = *39:18, *39:39:02
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:33 = *39:02:01, *39:40N = *39:02:02, *39:33 = *39:02:02, *39:40N
++-++-+-	---+---+	---+---+	-----+	*39:23, *39:36 = *39:23, *39:53
++-++-+-	---+---+	---+---+	-----+	*39:39:01, *39:62 = *39:39:02, *39:62
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:06:01 = *39:02:02, *39:06:01
++-++-+-	---+---+	---+---+	-----+	*39:23, *39:59 = *39:23, *39:73
++-++-+-	---+---+	---+---+	-----+	*39:39:01, *39:57 = *39:39:02, *39:57
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:50 = *39:02:02, *39:50
++-++-+-	---+---+	---+---+	-----+	*39:23, *39:46 = *39:23, *39:47
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:24:01 = *39:02:02, *39:24:01
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:14 = *39:02:02, *39:14
++-++-+-	---+---+	---+---+	-----+	*39:03, *39:23 = *39:23, *39:68
++-++-+-	---+---+	---+---+	-----+	*39:29, *39:39:01 = *39:29, *39:39:02
++-++-+-	---+---+	---+---+	-----+	*39:18, *39:26 = *39:18, *39:58
++-++-+-	---+---+	---+---+	-----+	*39:33, *39:51 = *39:40N, *39:51
++-++-+-	---+---+	---+---+	-----+	*39:26, *39:62 = *39:58, *39:62
++-++-+-	---+---+	---+---+	-----+	*39:26, *39:57 = *39:57, *39:58
++-++-+-	---+---+	---+---+	-----+	*39:26, *39:29 = *39:29, *39:58
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:51 = *39:02:02, *39:51 = *39:23, *39:26 = *39:23, *39:51
++-++-+-	---+---+	---+---+	-----+	*39:05:01, *39:18 = *39:11, *39:18
++-++-+-	---+---+	---+---+	-----+	*39:20, *39:33 = *39:20, *39:40N
++-++-+-	---+---+	---+---+	-----+	*39:33, *39:55 = *39:40N, *39:55
++-++-+-	---+---+	---+---+	-----+	*39:07, *39:41 = *39:07, *39:42
++-++-+-	---+---+	---+---+	-----+	*39:07, *39:30 = *39:07, *39:43
++-++-+-	---+---+	---+---+	-----+	*39:07, *39:35 = *39:07, *39:52
++-++-+-	---+---+	---+---+	-----+	*39:07, *39:28 = *39:07, *39:45
++-++-+-	---+---+	---+---+	-----+	*39:07, *39:25N = *39:07, *39:61
++-++-+-	---+---+	---+---+	-----+	*39:07, *39:12 = *39:07, *39:31 = *39:07, *39:54
++-++-+-	---+---+	---+---+	-----+	*39:07, *39:36 = *39:07, *39:53
++-++-+-	---+---+	---+---+	-----+	*39:05:01, *39:57 = *39:06:01, *39:11 = *39:11, *39:57
++-++-+-	---+---+	---+---+	-----+	*39:07, *39:59 = *39:07, *39:73
++-++-+-	---+---+	---+---+	-----+	*39:04, *39:07 = *39:07, *39:46 = *39:07, *39:47
++-++-+-	---+---+	---+---+	-----+	*39:05:01, *39:29 = *39:14, *39:55 = *39:29, *39:55
++-++-+-	---+---+	---+---+	-----+	*39:03, *39:07 = *39:07, *39:68
++-++-+-	---+---+	---+---+	-----+	*39:13:01, *39:41 = *39:13:01, *39:42
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:43 = *39:02:02, *39:43 = *39:13:01, *39:30 = *39:13:01, *39:43
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:56 = *39:13:01, *39:74
++-++-+-	---+---+	---+---+	-----+	*39:01:01:01, *39:49 = *39:02:01, *39:55 = *39:13:01, *39:15 = *39:15, *39:49
++-++-+-	---+---+	---+---+	-----+	*39:01:01:01, *39:08 = *39:02:01, *39:11 = *39:08, *39:36 = *39:08, *39:53 = *39:08, *39:72 = *39:13:01, *39:36 = *39:13:01, *39:53
++-++-+-	---+---+	---+---+	-----+	*39:08, *39:55 = *39:11, *39:49
++-++-+-	---+---+	---+---+	-----+	*39:02:02, *39:07 = *39:07, *39:13:01 = *39:07, *39:49
++-++-+-	---+---+	---+---+	-----+	*39:13:01, *39:59 = *39:13:01, *39:73
++-++-+-	---+---+	---+---+	-----+	*39:13:01, *39:46 = *39:13:01, *39:47
++-++-+-	---+---+	---+---+	-----+	*39:02:01, *39:37 = *39:03, *39:13:01 = *39:13:01, *39:68

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+++++---	-++-----	---+-----	-----	*39:07, *39:26 = *39:07, *39:58
+++-----	+-----	-----	-----	*39:06:01, *39:18 = *39:18, *39:57 = *39:18, *39:62
+++-----	-++-----	-----	-----	*39:02:01, *39:18 = *39:02:02, *39:18
+++-----	-++-----	-----	-----	*39:23, *39:33 = *39:23, *39:40N
+++-----	+-----	-----	-----	*39:02:01, *39:62 = *39:02:02, *39:62
+++-----	+-----	-----	-----	*39:02:01, *39:57 = *39:02:02, *39:57
+++-----	-++-----	-----	-----	*39:02:01, *39:29 = *39:02:02, *39:29
+++-----	-++-----	-----	-----	*39:07, *39:33 = *39:07, *39:40N
+++-----	-++-----	-----	-----	*39:07, *39:14 = *39:07, *39:29
+++-----	-++-----	-----	-----	*39:41, *39:49 = *39:42, *39:49
+++-----	-++-----	-----	-----	*39:30, *39:49 = *39:43, *39:49
+++-----	-++-----	-----	-----	*39:13:01, *39:61 = *39:25N, *39:49 = *39:49, *39:61
+++-----	-++-----	-----	-----	*39:08, *39:41 = *39:08, *39:42
+++-----	-++-----	-----	-----	*39:08, *39:30 = *39:08, *39:43
+++-----	-++-----	-----	-----	*39:08, *39:33 = *39:08, *39:40N = *39:08, *39:74 = *39:13:01, *39:33 = *39:13:01, *39:40N
+++-----	-++-----	-----	-----	*39:08, *39:28 = *39:08, *39:45
+++-----	-++-----	-----	-----	*39:08, *39:12 = *39:08, *39:31
+++-----	-++-----	-----	-----	*39:08, *39:15 = *39:36, *39:49 = *39:49, *39:53
+++-----	-++-----	-----	-----	*39:02:01, *39:07 = *39:19:02, *39:49
+++-----	-++-----	-----	-----	*39:49, *39:59 = *39:49, *39:73
+++-----	-++-----	-----	-----	*39:08, *39:59 = *39:08, *39:73
+++-----	-++-----	-----	-----	*39:46, *39:49 = *39:47, *39:49
+++-----	-++-----	-----	-----	*39:04, *39:08 = *39:08, *39:46 = *39:08, *39:47
+++-----	-++-----	-----	-----	*39:03, *39:49 = *39:49, *39:68
+++-----	-++-----	-----	-----	*39:03, *39:08 = *39:08, *39:68
+++-----	-++-----	-----	-----	*39:08, *39:18 = *39:13:01, *39:18
+++-----	-++-----	-----	-----	*39:33, *39:49 = *39:40N, *39:49
+++-----	-++-----	-----	-----	*39:06:01, *39:08 = *39:08, *39:57 = *39:13:01, *39:57
+++-----	-++-----	-----	-----	*39:13:01, *39:29 = *39:14, *39:49 = *39:29, *39:49

*39:01:01:01 = *39:01:01:01, 39:01:01:03, 39:01:03, 39:01:06-39:01:08 and 39:01:10-39:01:14 and 39:65-39:67, 39:69, 39:71 and 39:75

*39:01:01:02L = *39:01:01:02L and *39:60

*39:05:01 = *39:05:01-39:05:02

*39:06:01 = *39:06:01-39:06:02

*39:13:01 = *39:13:01-39:13:02

*39:24:01 = *39:24:01-39:24:02

*39:62 = *39:62 and 39:64

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Lot-specific information

SPECIFICITY TABLE

HLA-B*39 SSP subtyping

Specificities and sizes of the PCR products of the 32 primer mixes used for HLA-B*39 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*39 alleles ³	Other amplified HLA-Class I alleles ⁴
1	230 bp	800 bp	*39:01:01:01-39:01:01:03, 39:01:03-39:05:02, 39:07-39:20, 39:22-39:29, 39:31, 39:35, 39:37-39:41, 39:44-39:46, 39:48-39:49, 39:51-39:56, 39:58-39:61, 39:63, 39:65-39:72, 39:75	*08:55, 15:69, 15:186, 38:01:01-38:07, 38:09, 38:11-38:14, 38:16-38:19, 38:21-38:22, 38:24-38:29, 38:31-38:35, 38:38-38:40, 40:184, 58:20, 67:01:01-67:03, C*05:70, C*06:40, C*07:137:01-07:137:02
2	170 bp	1070 bp	*39:01:01:01-39:01:01:03, 39:01:03-39:01:14, 39:03-39:07, 39:09, 39:11-39:12, 39:14-39:15, 39:18-39:19:02, 39:22, 39:24:01-39:38Q, 39:40:01N-39:48, 39:50-39:51, 39:53, 39:55-39:57, 39:59-39:62, 39:64-39:75	*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, 15:133-15:134, 15:153, 15:161, 15:176, 15:186, 15:197-15:198, 15:200, 15:221, 15:226N, 15:229, 15:238, 15:243, 15:252, 18:33, 38:01:01-38:02:03, 38:04-38:05, 38:08-38:15, 38:17-38:25, 38:27, 38:29-38:40
3^{6,8}	200 bp	800 bp	*39:05:01-39:05:02, 39:07-39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37, 39:43, 39:49, 39:55-39:56	*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, 15:37-15:38:02, 15:47:01-15:47:02, 15:49, 15:51-15:52, 15:54, 15:62, 15:64:01, 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,

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				15:176, 15:185-15:186, 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, 18:01:01:01-18:15, 18:17N-18:76, 35:21, 35:24:01-35:25, 35:124-35:125, 35:142, 35:162, 35:188, 35:190, 37:01:01-37:21, 37:23-37:34, 38:01:01-38:02:03, 38:04-38:12, 38:15, 38:17-38:25, 38:27, 38:29-38:40, 40:12, 40:149, 42:11, 44:130, 48:01:01-48:02:01, 48:03:01-48:28, 51:37, 51:45, 51:63, 51:97, 51:116, 52:16, 52:27, 53:02, 53:06, 53:28, 56:31, 57:14, 57:58, 58:09, 58:12
4^{5,6,10}	65 bp, 145 bp, 385 bp	1070 bp	*39:26, 39:51, 39:58	
5⁵	105 bp	800 bp	*39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10-39:02:01, 39:03-39:09, 39:11-39:12, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:39:01, 39:40:01N-39:48, 39:50-39:62, 39:64-39:75	*07:02:32, 14:01:01-14:02:02, 14:02:04, 14:02:07-14:20, 14:22-14:32, 15:189, 35:26, 67:01:01, 67:03
6	170 bp	800 bp	*39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:23, 39:39:01-39:39:02, 39:49	*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, 15:64:01, 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, 38:03, 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

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7^{5,8,11}	120 bp, 165 bp, 220 bp	1070 bp	*39:03, 39:14, 39:17, 39:24:01-39:24:02, 39:29, 39:37, 39:68	*08:55, 38:19, 67:03, A*30:63, C*05:70, C*06:40, C*07:137:01- 07:137:02, C*15:51
8^{8,12}	180 bp, 405 bp	1070 bp	*39:04, 39:46-39:47, 39:50	*14:28, 15:189, 35:26, 38:33, 40:36, 40:77, 40:86, 48:07
9^{6,8}	220 bp	800 bp	*39:06:01-39:06:02, 39:57, 39:59, 39:62, 39:64, 39:73	*38:23, 51:101
10^{5,13}	105 bp, 165 bp	800 bp	*39:07, 39:19:01- 39:19:02	*15:69, 15:186, 18:33, 35:35, 35:82, 35:85, 35:135, 51:22, 78:03
11⁸	170 bp	1070 bp	*39:08, 39:11, 39:18, 39:33, 39:36, 39:40:01N, 39:53, 39:57	*07:78, 13:18, 13:31, 13:41, 15:58, 15:73, 54:10, 54:20, 55:09, 55:21, 55:37, 55:52, 56:19N
12^{8,14}	175 bp, 205 bp	800 bp	*39:07, 39:15, 39:29, 39:49, 39:55, 39:61	*15:69, 15:186, 35:35, 38:29, C*15:51
13^{5,9,15}	85 bp, 385 bp	800 bp	*39:23, 39:27, 39:44, 39:51	
14⁵	80 bp	1070 bp	*39:10:01-39:10:02, 39:16-39:17, 39:20, 39:63	*07:02:01-07:07, 07:09, 07:11- 07:12, 07:14-07:26, 07:28-07:31, 07:33-07:35, 07:37, 07:39-07:49N, 07:51-07:68:03, 07:70-07:80, 07:82, 07:84, 07:86-07:131, 07:133-07:148, 07:150-07:162, 14:21, 15:11:01-15:11:05, 15:76, 15:101, 15:143, 15:148, 15:152, 15:209N, 15:215, 35:76, 40:61, 40:166, 42:01:01-42:02, 42:04- 42:10, 42:12-42:17, 44:90, 45:06, 54:01:01-54:11, 54:13-54:23, 54:25-54:27, 55:01:01-55:05, 55:07-55:17, 55:19-55:33, 55:35- 55:46, 55:48-55:56, 56:01:01- 56:06, 56:09-56:13, 56:15- 56:20:02, 56:22-56:32, 56:34- 56:36, 67:01:01-67:01:02, 67:03, 81:01-81:04N, 82:01-82:03, 83:01
15^{8,16}	145 bp, 190 bp	800 bp	*39:12, 39:31, 39:38Q, 39:54	*14:28
16^{8,17}	165 bp, 220 bp	800 bp	*39:09, 39:14, 39:16, 39:29, 39:70	*08:55, 51:101, C*07:137:01- 07:137:02
17¹⁸	180 bp, 205 bp	800 bp	*39:25N, 39:61	

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18	160 bp	800 bp	*39:02:01-39:02:02, 39:08, 39:13:01- 39:13:02, 39:22- 39:23, 39:49	*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, 38:03-38:04, 38:25, 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, 52:27
19	385 bp	1070 bp	*39:01:01:01- 39:01:01:03, 39:01:03-39:01:14, 39:03-39:07, 39:09- 39:10:01, 39:11- 39:12, 39:14-39:20, 39:24:01-39:48, 39:50-39:75	*07:02:01-07:12, 07:14-07:53, 07:55-07:64, 07:66-07:122, 07:124- 07:131, 07:133-07:162, 08:01:01- 08:05, 08:07-08:09, 08:11-08:16, 08:18-08:37, 08:39-08:53:01, 08:55-08:94, 14:01:01-14:03, 14:05-14:32, 38:01:01-38:02:03, 38:05-38:24, 38:26-38:40, 40:25 [?] , 40:68 [?] , 40:106 [?] , 40:166 [?] , 42:01:01- 42:02, 42:04-42:10, 42:12-42:17, 48:06, 50:15, 67:01:01-67:01:02, 67:03, 73:01-73:02, 81:02
20 ^{5,8,9,19}	100 bp, 215 bp	800 bp	*39:01:05, 39:09, 39:18, 39:27	*15:69, 15:186, 38:01:03, C*07:137:01-07:137:02, C*15:51
21	220 bp	800 bp	*39:01:01:01- 39:01:01:03, 39:01:03-39:02:02, 39:04-39:05:02, 39:07-39:13:02, 39:15, 39:17-39:20, 39:22-39:23, 39:25N-39:27, 39:31, 39:35, 39:38Q-39:41, 39:42 ^w , 39:44-39:46, 39:48-39:49, 39:51- 39:56, 39:58-39:61, 39:63, 39:65-39:72, 39:75	*15:69, 15:186, 38:01:01-38:07, 38:08 ^w , 38:09, 38:11-38:18, 38:21, 38:24-38:29, 38:31-38:35, 38:38- 38:40, 40:184, 58:20, 67:01:01- 67:03, C*05:70, C*07:137:01- 07:137:02
22 ²⁰	150 bp, 225 bp	800 bp	*39:28, 39:45	

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23^{5,6}	85 bp	800 bp	*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- 39:36, 39:38Q- 39:39:01, 39:40:01N-39:48, 39:50-39:54, 39:57- 39:62, 39:64-39:75	*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, 38:14 ^w , 38:26 ^w , 67:01:01, 67:03
24	185 bp	1070 bp	*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, 39:24:01-39:39:01, 39:40:01N-39:44, 39:46-39:48, 39:50- 39:62, 39:64-39:71, 39:73-39:75	*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, 38:01:01- 38:02:02, 38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:40, 67:01:01, 67:03
25²¹	150 bp, 235 bp	1070 bp	*39:01:01:02L, 39:60	C*15:31
26	265 bp	800 bp		*14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:32, 18:44:01-18:44:02, C*01:30
27²²	180 bp, 205 bp	800 bp	*39:32, 39:38Q, 39:48, 39:63	*13:15, 35:96, 35:109, 51:13:01- 51:13:02, 51:62, 51:92, 51:106, 52:14, 52:25, 56:34, C*15:39
28^{7,8,23}	140 bp, 180 bp	1070 bp	*39:32-39:33, 39:40:01N, 39:56, 39:74	*13:03, 13:48, 15:58, 15:73, 15:133, 15:229, 15:253, 35:03:01- 35:03:05, 35:03:07-35:03:11, 35:06, 35:13, 35:36, 35:38, 35:55- 35:56, 35:59, 35:70, 35:74-35:75, 35:84-35:85, 35:98, 35:106, 35:109, 35:127-35:128, 35:136, 35:150-35:153, 35:155-35:156, 35:160, 35:163, 35:167, 35:169,

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 101.566-12u/04u – without *Taq* polymerase, IFU-02

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29	245 bp	800 bp	*39:06:01-39:06:02, 39:34, 39:50, 39:57, 39:62, 39:64	*07:78, 07:84, 08:09, 08:84, 13:02:01-13:02:13, 13:08Q-13:09, 13:14-13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37-13:38, 13:40-13:42, 13:44-13:47, 13:49N, 13:53-13:56N, 13:58, 15:42, 15:83, 27:14, 27:81, 35:60, 40:06:01:01-40:06:05, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16, 41:20-41:21, 42:04, 45:08, 45:10, 46:18, 49:07, 51:10, 51:16, 51:21, 51:31, 51:34, 51:36, 51:82, 51:93, 51:101, 52:08, 54:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10-54:27, 55:01:01-55:01:06, 55:01:08-55:03, 55:05, 55:07, 55:09-55:13, 55:15-55:48, 55:50, 55:52-55:56, 56:23, 59:01:01:01-59:03, 59:05, 73:01-73:02, 78:07
30^{5,8,24}	60 bp, 190 bp	800 bp	*39:18, 39:35, 39:52, 39:62, 39:64	*15:69, 38:32, 51:101, A*30:63, C*05:70, C*06:40, C*15:51
31⁸	155 bp	800 bp	*39:30, 39:34, 39:43	*07:48, 08:13, 08:25, 13:01:01-13:04, 13:06-13:15, 13:17, 13:19, 13:21-13:23, 13:25-13:30, 13:32-13:40, 13:42-13:45, 13:47, 13:49N-13:58, 15:05:01-15:05:02, 15:20, 15:31, 15:52, 15:55, 15:86, 15:91, 15:107, 15:114, 15:123-15:124, 15:151, 15:155, 15:185, 15:188, 15:222, 15:224, 18:01:01:01-18:12, 18:14, 18:17N-18:18, 18:20,

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18:22-18:29, 18:31-18:55, 18:58-18:76, 27:01-27:03, 27:05:02-27:05:18, 27:07:01-27:09, 27:11-27:14, 27:16-27:17, 27:19, 27:23, 27:26-27:39, 27:41-27:44, 27:46, 27:48-27:53, 27:55-27:62, 27:64N-27:65N, 27:67, 27:70-27:78, 27:80-27:85, 27:87-27:90:01, 35:01:01:01-35:07, 35:09:01-35:10, 35:12:01-35:13, 35:15-35:17, 35:19-35:20:02, 35:22-35:34, 35:36-35:37, 35:39-35:42:02, 35:46-35:57, 35:59-35:60, 35:63-35:65Q, 35:68:01-35:72, 35:74-35:78, 35:81-35:85, 35:88-35:95, 35:97-35:98, 35:101:01-35:101:02, 35:103-35:104, 35:106-35:114, 35:116, 35:119-35:134N, 35:136-35:140, 35:143-35:155, 35:157, 35:159-35:162, 35:165N, 35:168, 35:170-35:171, 35:173N, 35:175, 35:177-35:184, 35:186, 35:189-35:191, 35:193-35:205, 37:02, 38:36, 40:01:01-40:01:11, 40:01:13-40:04, 40:06:01:01-40:14:03, 40:18-40:22N, 40:24-40:25, 40:27:01-40:27:02, 40:29-40:31, 40:33-40:40, 40:42-40:50, 40:52-40:94, 40:96-40:97, 40:99-40:115, 40:117-40:127, 40:129-40:135, 40:137-40:147, 40:149-40:157, 40:159-40:160:01, 40:162-40:173, 40:175-40:182, 40:185-40:197, 40:199-40:215, 44:03:01-44:03:16, 44:07, 44:10, 44:13, 44:26, 44:30-44:32, 44:36-44:40, 44:43:01-44:43:02, 44:45-44:47, 44:50, 44:54, 44:57, 44:60-44:61N, 44:64:01-44:65, 44:69, 44:77, 44:81-44:82, 44:85, 44:92, 44:94, 44:96, 44:98, 44:103, 44:105, 44:107-44:111, 44:114-44:115, 44:120, 44:122, 44:124-44:125, 44:128-44:130, 44:135, 44:141, 44:143-44:144, 44:147, 44:153-44:155, 46:06, 46:11, 46:13:01-46:13:03, 46:18,

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				46:21:01-46:21:02, 46:26, 46:33, 47:01:01:01-47:08, 48:01:01-48:04, 48:06-48:07, 48:09-48:14, 48:16- 48:18, 48:20-48:23, 48:26-48:28, 49:11, 51:09:01-51:10, 51:15, 51:31, 51:40, 51:42, 51:73, 51:81, 51:91, 51:93, 51:108, 51:120, 51:122, 52:03, 52:10:01-52:10:02, 52:28-52:29, 53:01:01-53:05, 53:07, 53:09-53:10, 53:12-53:15, 53:17:01-53:21, 53:23, 53:25- 53:27, 54:01:01-54:05N, 54:07- 54:09, 54:11-54:19, 54:21-54:27, 55:02:01-55:02:06, 55:04, 55:07- 55:08, 55:10, 55:12-55:13, 55:16, 55:18-55:19, 55:22-55:23, 55:26- 55:27, 55:30, 55:32, 55:34-55:35, 55:39, 55:41-55:43, 55:46-55:51, 55:54, 56:01:01-56:02, 56:04, 56:07-56:12, 56:14-56:20:02, 56:22-56:24, 56:26-56:29, 56:31, 56:33-56:36, 57:01:01-57:01:13, 57:03:01-57:03:02, 57:06-57:08, 57:10-57:11, 57:14-57:18, 57:20- 57:21, 57:23, 57:25-57:26, 57:29, 57:31-57:41, 57:43-57:56, 57:58, 58:01:01-58:02, 58:04, 58:07, 58:09-58:18, 58:21, 58:23-58:37, 59:01:01:01-59:05, 78:04, 81:01- 81:05
32	230 bp	800 bp	*39:24:01-39:24:02, 39:41-39:42	*35:35, 38:20, C*15:51

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B*39 SSP subtypings.

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 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.

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

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

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order to help in the correct orientation of the HLA-B*39 subtyping.

In addition, wells number 3, 5, 6, 9, 10, 12, 13, 15 to 18, 20 to 23, 26, 27 and 29 to 32 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

³For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B*39 alleles will be amplified by primer mixes 1 to 3, 5 to 12, 14 to 16, 18 to 21, 23, 24 and 26 to 32. In addition, primer mix 1 will amplify the C*05:70, C*06:40 and C*07:137:01-07:137:02 alleles, primer mix 7 will amplify the A*30:63, C*05:70, C*06:40, C*07:137:01-07:137:02 and C*15:51 alleles, primer mix 12 will amplify the C*15:51 allele, primer mix 16 will amplify the C*07:137:01-07:137:02 alleles, primer mix 20 will amplify the C*07:137:01-07:137:02 and C*15:51 alleles, primer mix 21 will amplify the C*05:70 and C*07:137:01-07:137:02 alleles, primer mix 25 will amplify the C*15:31 allele, primer mix 26 will amplify the C*01:30 allele, primer mix 27 will amplify the C*15:39 allele, primer mix 28 will amplify the C*15:15 allele, primer mix 30 will amplify the A*30:63, C*05:70, C*06:40 and C*15:51 alleles and primer mix 32 will amplify the C*15:51 allele.

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

⁶Primer mixes 3, 4, 9 and 23 have a tendency to giving rise to primer oligomer formation.

⁷Primer mix 28 may give rise to a lower yield of HLA-specific PCR product than the other B*39 primer mixes.

⁸Primer mixes 3, 7, 8, 9, 11, 12, 15, 16, 20, 28, 30 and 31 may have tendencies of unspecific amplifications.

⁹Primer mixes 13 and 20 may give rise to a long unspecific amplification product of approximately 600 bp. This should be disregarded when interpreting the B*39 typings.

¹⁰Primer mix 4: Specific PCR fragment of 65 bp in the B*39:58 allele. Specific PCR fragment of 145 bp in the B*39:26 allele. Specific PCR fragment of 385 bp in the B*39:51 allele.

¹¹Primer solution 7: Specific PCR fragment of 120 bp in the B*39:68 and the B*67:03 and in the A*30:63, C*05:70, C*06:40, C*07:137:01-07:137:02 and C*15:51 alleles. Specific PCR fragment of 165 bp in the B*39:17 allele. Specific PCR fragment of 220 bp in the B*39:03, 39:14, 39:24:01-39:24:02, 39:29 and 39:37 and the B*38:19 alleles. PCR fragment of 120 and 220 bp in the B*08:55 allele.

¹²Primer solution 8: Specific PCR fragment of 180 bp in the B*39:04, 39:47 and 39:50 and the B*14:28, 15:189, 35:26, 38:33, 40:36, 40:77, 40:86 and 48:07 alleles. Specific PCR fragment of 405 bp in the B*39:46 allele.

¹³Primer solution 10: Specific PCR fragment of 105 bp in the B*39:19:01-39:19:02 and the B*18:33, 35:82, 35:85, 35:135, 51:22 and 78:03 alleles. Specific PCR fragment of 165 bp in the B*39:07 and in the B*15:69, 15:186 and 35:35 alleles.

¹⁴Primer mix 12: Specific PCR fragment of 175 bp in the B*39:07, 39:15, 39:29, 39:49 and 39:55 and the B*15:69, 15:186, 35:35 and 38:29 and the C*15:51 alleles. Specific PCR fragment of 205 bp in the B*39:61 allele.

¹⁵Primer mix 13: Specific PCR fragment of 85 bp in the B*39:23, 39:27 and 39:44 alleles. Specific PCR fragment of 385 bp in the B*39:51 allele.

¹⁶Primer mix 15: Specific PCR fragment of 145 bp in the B*39:54 allele. Specific PCR fragments of 190 bp in the B*39:12, 39:31 and 39:38Q and the B*14:28 alleles.

¹⁷Primer solution 16: Specific PCR fragment of 165 bp in the B*39:14, 39:29 and 39:70 and the B*08:55 and 51:101 alleles. Specific PCR fragment of 220 bp in the B*39:09 and 39:16 and in the C*07:137:01-07:137:02 alleles.

¹⁸Primer mix 17: Specific PCR fragment of 180 bp in the B*39:25N allele. Specific PCR fragment of 205 bp in the B*39:61 allele.

¹⁹Primer solution 20: Specific PCR fragment of 100 bp in the B*39:01:05, 39:18 and 39:27 and the B*15:69, 15:186 and 38:01:03 and the C*15:51 alleles. Specific PCR fragment of 215 bp in the B*39:09 and in the C*07:137:01-07:137:02 alleles.

²⁰Primer solution 22: Specific PCR fragment of 150 bp in the B*39:45 allele. Specific PCR fragment of 225 bp in the B*39:28 allele.

²¹Primer solution 25: Specific PCR fragment of 150 bp in the B*39:60 and in the C*15:31 alleles. Specific PCR fragment of 235 bp in the B*39:01:01:02L allele.

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²²Primer mix 27: Specific PCR fragment of 180 bp in the B*39:38Q and in the 39:63 alleles. Specific PCR fragment of 205 bp in the B*39:32 and 39:48 and the B*13:15, 35:96, 35:109, 51:13:01-51:13:02, 51:62, 51:92, 51:106, 52:14, 52:25 and 56:34 and the C*15:39 alleles.

²³Primer mix 28: Specific PCR fragment of 140 bp in the B*39:56 allele. Specific PCR fragment of 180 bp in the B*39:32-39:33, 39:40:01N and 39:74 and the B*13:03, 13:48, 15:58, 15:73, 15:133, 15:229, 15:253, 35:03:01-35:03:05, 35:03:07-35:03:11, 35:06, 35:13, 35:36, 35:38, 35:55-35:56, 35:59, 35:70, 35:74-35:75, 35:84-35:85, 35:98, 35:106, 35:109, 35:127-35:128, 35:136, 35:150-35:153, 35:155-35:156, 35:160, 35:163, 35:167, 35:169, 35:179, 35:181, 35:193, 35:195, 35:198, 35:204-35:205, 38:30, 40:71, 44:10, 45:14, 46:11, 51:13:01-51:13:02, 51:15, 51:62, 51:92, 51:106, 52:14, 52:25, 53:04, 54:03, 56:01:01-56:02, 56:04, 56:07-56:08, 56:11, 56:13-56:14, 56:16-56:17, 56:19N-56:20:02, 56:22, 56:24-56:30, 56:33-56:36, 58:34, 59:04 and 82:01-82:03 and the C*15:15 alleles.

²⁴Primer mix 30: Specific PCR fragment of 60 bp in the B*39:18, 39:35 and 39:64 and the B*15:69, 38:32 and 51:101 and the C*05:70, C*06:40 and C*15:51 alleles. Specific PCR fragment of 190 bp in the B*39:52 and 39:62 alleles. Specific PCR fragment of 60 and 190 bp in the A*30:63 allele.

'w', might be weakly amplified.

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

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INTERPRETATION TABLE																
HLA-B*39 SSP subtyping																
Amplification patterns of the B*39:01 to 39:75 alleles																
	Well⁹															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
				385			220									
Length of int.	800	1070	800	1070	800	800	1070	1070	800	800	1070	800	800	1070	800	800
pos. control¹																
5'-primer(s)²	355	142	142	246	246	142	363	106	355	206	419	44	246	264	97	360
	5'-CCC ^{3'}	5'-TCT ^{3'}	5'-TCT ^{3'}	5'-gAA ^{3'}	5'-gAA ^{3'}	5'-TCT ^{3'}	5'-AgC ^{3'}	5'-CCA ^{3'}	5'-CCT ^{3'}	5'-gAC ^{3'}	5'-gTT ^{3'}	5'-ggC ^{3'}	5'-gAA ^{3'}	5'-ACg ^{3'}	5'-TCg ^{3'}	5'-CAC ^{3'}
	355		419	419	246		420	420	357	419		412	503	272	97	368
	5'-CTC ^{3'}		5'-gTC ^{3'}	5'-gTT ^{3'}	5'-gAA ^{3'}		5'-TTA ^{3'}	5'-TTC ^{3'}	5'-Tgg ^{3'}	5'-gTC ^{3'}		5'-ATg ^{3'}	5'-CCg ^{3'}	5'-CTA ^{3'}	5'-TCC ^{3'}	5'-gTC ^{3'}
							463	646	668						141	419
							5'-TgC ^{3'}	5'-ACg ^{3'}	5'-ggC ^{3'}						5'-ATg ^{3'}	419
															5'-gTT ^{3'}	
3'-primer(s)³	544	272	292	272	311	272	544	246	544	272	539	79	299	311	246	544
	5'-ggT ^{3'}	5'-TgC ^{3'}	5'-gTA ^{3'}	5'-TgA ^{3'}	5'-ggT ^{3'}	5'-Tgg ^{3'}	5'-ggT ^{3'}	5'-TAT ^{3'}	5'-ggT ^{3'}	5'-TgC ^{3'}	5'-TCC ^{3'}	5'-gTA ^{3'}	5'-TCA ^{3'}	5'-ggT ^{3'}	5'-TAT ^{3'}	5'-ggT ^{3'}
			292	344				559	839	544	539	544	344		563	
			5'-gTA ^{3'}	5'-ACg ^{3'}				5'-CTC ^{3'}	5'-ATA ^{3'}	5'-ggT ^{3'}	5'-TCC ^{3'}	5'-ggT ^{3'}	5'-ACg ^{3'}		5'-CgA ^{3'}	
			292	524				916			564	544	544			
			5'-gTA ^{3'}	5'-CAA ^{3'}				5'-gAC ^{3'}			5'-ACT ^{3'}	5'-ggT ^{3'}	5'-ggT ^{3'}			
			583								565					
			5'-gTg ^{3'}								5'-CAT ^{3'}					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HLA-B allele^{4,5}																
*39:01:01:01, 39:01:01:03, 39:01:03, 39:01:06-39:01:08, 39:01:10-39:01:14, 39:65-39:67, 39:69, 39:71, 39:75	1	2			5											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16



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INTERPRETATION TABLE																
HLA-B*39 SSP subtyping																
Amplification patterns of the B*39:01 to 39:75 alleles																
Well ⁹																
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)
205			215		225			235		205	180		190			
800	800	1070	800	800	800	800	1070	1070	800	800	1070	800	800	800	800	Length of int. pos. control ¹
44	142	44	246	363	142	246	103	-149	361	141	419	357	142	544	112	5'-primer(s) ²
5'-ggC ^{3'}	5'-TCT ^{3'}	5'-ggC ^{3'}	5'-gAA ^{3'}	5'-Agg ^{3'}	5'-TCT ^{3'}	5'-gAA ^{3'}	5'-CCT ^{3'}	5'-ggg ^{3'}	5'-AgT ^{3'}	5'-ATT ^{3'}	5'-gTT ^{3'}	5'-Tgg ^{3'}	5'-TCT ^{3'}	5'-gAg ^{3'}	5'-CCT ^{3'}	
407			368		362		103	419		419			385		355	3'-primer(s) ³
5'-gg ^{3'}			5'-gTC ^{3'}		5'-gAC ^{3'}		5'-CCT ^{3'}	5'-gTT ^{3'}		5'-gTT ^{3'}			5'-ggT ^{3'}		5'-TCA ^{3'}	
			486										527		365	
			5'-ACg ^{3'}										5'-TgA ^{3'}		5'-CAC ^{3'}	
79	259	259	299	544	250	292	246	44	583	272	518	559	172	3 rd	311	
5'-gTA ^{3'}	5'-CTC ^{3'}	5'-gTT ^{3'}	5'-TCA ^{3'}	5'-ggT ^{3'}	5'-CCg ^{3'}	5'-gTC ^{3'}	5'-TAT ^{3'}	5'-CCg ^{3'}	5'-gTg ^{3'}	5'-TgT ^{3'}	5'-CCC ^{3'}	5'-CgT ^{3'}	5'-CAT ^{3'}	5'-TAT ^{3'}	5'-ggT ^{3'}	
544		259	544		544	292	246	527		563	559	559	280		544	
5'-ggT ^{3'}		5'-gTT ^{3'}	5'-ggT ^{3'}		5'-ggT ^{3'}	5'-gTC ^{3'}	5'-TAT ^{3'}	5'-CCg ^{3'}		5'-CgA ^{3'}	5'-CAG ^{3'}	5'-CTC ^{3'}	5'-gTC ^{3'}		5'-ggT ^{3'}	
										583	564		544			
										5'-gTg ^{3'}	5'-ACT ^{3'}		5'-ggT ^{3'}			
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																HLA-B allele ^{4,5}
		19		21		23	24									*39:01:01:01, 39:01:01:03, 39:01:03, 39:01:06-39:01:08, 39:01:10-39:01:14, 39:65-39:67, 39:69, 39:71, 39:75
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.



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Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
				385			220									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*39:01:01:02L, 39:60 ⁷	1	2			5											
*39:01:04	1	2			5											
*39:01:05	1	2			5											
*39:01:09	1	2														
*39:02:01	1				5	6										
*39:02:02	1					6										
*39:03	1	2			5		7									
*39:04	1	2			5			8								
*39:05:01-39:05:02	1	2	3		5											
*39:06:01-39:06:02		2			5				9							
*39:07	1	2	3		5					10		12				
*39:08	1		3		5	6					11					
*39:09	1	2			5											16
*39:10:01, 67:01:02 ⁶	1													14		
*39:10:02	1													14		
*39:11	1	2	3		5						11					
*39:12	1	2			5										15	
*39:13:01-39:13:02	1		3			6										
*39:14	1	2			5		7									16
*39:15	1	2			5							12				
*39:16	1													14		16
*39:17	1						7							14		
*39:18	1	2			5						11					
*39:19:01	1	2								10						
*39:19:02	1	2			5					10						
*39:20	1		3											14		
*39:22	1	2			5											
*39:23	1					6								13		
*39:24:01-39:24:02	1	2			5		7									
*39:25N	1	2			5											
*39:26	1	2		4	5											
*39:27	1	2			5									13		
*39:28	1	2			5											
*39:29	1	2			5		7					12				16
*39:30		2			5											
*39:31	1	2			5										15	
*39:32		2			5											
*39:33		2			5						11					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)
205			215		225			235		205	180		190			
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
		19		21		23	24	25								*39:01:01:02L, 39:60 ⁷
		19		21			24									*39:01:04
		19	20	21		23	24									*39:01:05
		19		21												*39:01:09
	18			21		23	24									*39:02:01
	18			21												*39:02:02
		19				23	24									*39:03
		19		21		23										*39:04
		19		21			24									*39:05:01-39:05:02
		19				23	24				29					*39:06:01-39:06:02
		19		21			24									*39:07
	18			21			24									*39:08
		19	20	21		23	24									*39:09
		19		21												*39:10:01, 67:01:02 ⁶
				21												*39:10:02
		19		21			24									*39:11
		19		21		23										*39:12
	18			21												*39:13:01-39:13:02
		19				23	24									*39:14
		19		21		23	24									*39:15
		19														*39:16
		19		21												*39:17
		19	20	21		23	24					30				*39:18
		19		21												*39:19:01
		19		21		23	24									*39:19:02
		19		21												*39:20
	18			21		23	24									*39:22
	18			21												*39:23
		19				23	24							32		*39:24:01-39:24:02
17		19		21		23	24									*39:25N
		19		21		23	24									*39:26
		19	20	21		23	24									*39:27
		19			22	23	24									*39:28
		19				23	24									*39:29
		19				23	24							31		*39:30
		19		21		23	24									*39:31
		19				23	24			27	28					*39:32
		19				23	24				28					*39:33
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
				385			220									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*39:34		2			5											
*39:35	1	2			5											
*39:36		2			5						11					
*39:37	1	2	3		5		7									
*39:38Q	1	2			5										15	
*39:39:01	1				5	6										
*39:39:02	1					6										
*39:40N	1	2			5						11					
*39:41	1	2			5											
*39:42		2			5											
*39:43		2	3		5											
*39:44	1	2			5								13			
*39:45	1	2			5											
*39:46	1	2			5			8								
*39:47		2			5			8								
*39:48	1	2			5											
*39:49	1		3			6						12				
*39:50		2			5			8								
*39:51	1	2		4	5								13			
*39:52	1				5											
*39:53	1	2			5						11					
*39:54	1				5										15	
*39:55	1	2	3		5							12				
*39:56	1	2	3		5											
*39:57		2			5				9		11					
*39:58	1			4	5											
*39:59	1	2			5				9							
*39:61	1	2			5							12				
*39:62, 39:64⁸		2			5				9							
*39:63	1													14		
*39:68	1	2			5		7									
*39:70	1	2			5											16
*39:72	1	2			5											
*39:73		2			5				9							
*39:74		2			5											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)
205			215		225			235		205	180		190			
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
		19				23	24					29		31		*39:34
		19		21		23	24						30			*39:35
		19				23	24									*39:36
		19					24									*39:37
		19		21		23	24			27						*39:38Q
		19		21		23	24									*39:39:01
		19		21												*39:39:02
		19		21		23	24				28					*39:40N
		19		21		23	24								32	*39:41
		19		w		23	24								32	*39:42
		19				23	24							31		*39:43
		19		21		23	24									*39:44
		19		21	22	23										*39:45
		19		21		23	24									*39:46
		19				23	24									*39:47
		19		21		23	24			27						*39:48
	18			21												*39:49
		19				23	24					29				*39:50
		19		21		23	24									*39:51
		19		21		23	24						30			*39:52
		19		21		23	24									*39:53
		19		21		23	24									*39:54
		19		21			24									*39:55
		19		21			24				28					*39:56
		19				23	24					29				*39:57
		19		21		23	24									*39:58
		19		21		23	24									*39:59
17		19		21		23	24									*39:61
		19				23	24					29	30			*39:62, 39:64 ⁸
		19		21						27						*39:63
		19		21		23	24									*39:68
		19		21		23	24									*39:70
		19		21		23										*39:72
		19				23	24									*39:73
		19				23	24				28					*39:74
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
				385			220									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*07:02:01-07:02:31, 07:02:33-07:07, 07:09, 07:11-07:12, 07:14-07:15, 07:17-07:26, 07:28-07:31, 07:33-07:35, 07:39-07:47, 07:49N, 07:51-07:53, 07:55-07:64, 07:66-07:68:03, 07:70-07:74, 07:76-07:77, 07:79-07:80, 07:82, 07:86-07:90, 07:92-07:122, 07:124-07:131, 07:133-07:148, 07:150-07:162, 42:01:01-42:02, 42:05:01-42:10, 42:12-42:17														14		
*07:02:32					5									14		
*07:08, 07:10, 07:32, 07:36, 07:81, 07:83, 07:149, 08:01:01-08:02, 08:05, 08:07-08:08N, 08:11-08:12:03, 08:14-08:16, 08:18-08:22, 08:24, 08:26-08:37, 08:39-08:53:01, 08:56:01-08:64, 08:66-08:83, 08:85-08:94, 50:15																
*07:16, 07:37, 07:75, 07:91			3											14		
*07:27, 07:50			3		6											
*07:38, 08:03, 08:23			3													
*07:48, 81:02														14		
*07:54, 07:65, 07:123, 15:11:01-15:11:05, 15:76, 15:101, 15:143, 15:148, 15:152, 15:209N, 15:215, 44:90, 45:06, 54:06, 55:01:07, 55:14, 56:03, 56:05:01-56:06, 56:32, 83:01														14		
*07:69, 07:85, 08:65		2														
*07:78											11			14		
*07:84, 42:04														14		
*08:04					6											
*08:09, 08:84, 73:01-73:02																
*08:13, 08:25																
*08:17, 15:61					6											
*08:38																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)
205			215		225			235		205	180		190			
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
		19														*07:02:01-07:02:31, 07:02:33-07:07:07:09, 07:11-07:12, 07:14-07:15, 07:17-07:26, 07:28-07:31, 07:33-07:35, 07:39-07:47, 07:49N, 07:51-07:53, 07:55-07:64, 07:66-07:68:03, 07:70-07:74, 07:76-07:77, 07:79-07:80, 07:82, 07:86-07:90, 07:92-07:122, 07:124-07:131, 07:133-07:148, 07:150-07:162, 42:01:01-42:02, 42:05:01-42:10, 42:12-42:17
		19				23	24									*07:02:32
		19														*07:08, 07:10, 07:32, 07:36, 07:81, 07:83, 07:149, 08:01:01-08:02, 08:05, 08:07-08:08N, 08:11-08:12:03, 08:14-08:16, 08:18-08:22, 08:24, 08:26-08:37, 08:39-08:53:01, 08:56:01-08:64, 08:66-08:83, 08:85-08:94, 50:15
		19														*07:16, 07:37, 07:75, 07:91
		19														*07:27, 07:50
		19														*07:38, 08:03, 08:23
		19												31		*07:48, 81:02
																*07:54, 07:65, 07:123, 15:11:01-15:11:05, 15:76, 15:101, 15:143, 15:148, 15:152, 15:209N, 15:215, 44:90, 45:06, 54:06, 55:01:07, 55:14, 56:03, 56:05:01-56:06, 56:32, 83:01
		19														*07:69, 07:85, 08:65
		19										29				*07:78
		19										29				*07:84, 42:04
		19														*08:04
		19										29				*08:09, 08:84, 73:01-73:02
		19												31		*08:13, 08:25
	18															*08:17, 15:61
	18															*08:38
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
				385			220									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*08:54, 15:03:01-15:03:03, 15:47:01-15:47:02, 15:54, 15:62, 15:68, 15:98, 15:103, 15:127, 15:131-15:132, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 15:251, 37:01:01-37:01:08, 37:03N-37:07, 37:09-37:20, 37:23-37:25, 37:27-37:34, 42:11, 48:05, 48:08, 48:15, 48:19, 48:24-48:25, 52:16, 52:27			3			6										
*08:55	1						7									16
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)
205			215		225			235		205	180		190			
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
	18															*08:54, 15:03:01-15:03:03, 15:47:01-15:47:02, 15:54, 15:62, 15:68, 15:98, 15:103, 15:127, 15:131-15:132, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 15:251, 37:01:01-37:01:08, 37:03N-37:07, 37:09-37:20, 37:23-37:25, 37:27-37:34, 42:11, 48:05, 48:08, 48:15, 48:19, 48:24-48:25, 52:16, 52:27
		19														*08:55
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 47R

Lot-specific information

Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*13:01:01-13:01:06, 13:04, 13:06-13:07N, 13:10-13:13, 13:17, 13:21-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 15:05:01-15:05:02, 15:20, 15:31, 15:55, 15:86, 15:107, 15:155, 15:188, 15:222, 15:224, 27:01-27:03, 27:05:02-27:05:18, 27:07:01-27:09, 27:11-27:13, 27:16-27:17, 27:19, 27:23, 27:26-27:39, 27:41-27:44, 27:46, 27:48-27:53, 27:55-27:62, 27:64N-27:65N, 27:67, 27:70-27:78, 27:80, 27:82-27:85, 27:87-27:90:01, 35:01:01:01-35:02:04, 35:03:06, 35:04:01-35:05:03, 35:07, 35:09:01-35:10, 35:12:01-35:12:03, 35:15-35:17, 35:19-35:20:02, 35:22-35:23, 35:27-35:34, 35:37, 35:39-35:42:02, 35:46-35:54, 35:57, 35:63-35:65Q, 35:68:01-35:69, 35:71-35:72, 35:77-35:78, 35:81, 35:83, 35:88-35:95, 35:97, 35:101:01-35:101:02, 35:103-35:104, 35:107-35:108:02, 35:110-35:114, 35:116, 35:119-35:123, 35:126, 35:129N-35:134N, 35:137-35:140, 35:143-35:149, 35:154, 35:157, 35:159, 35:161, 35:165N, 35:168, 35:170-35:171, 35:173N, 35:175, 35:177-35:178, 35:180, 35:182-35:184, 35:186, 35:189, 35:191, 35:194, 35:196-35:197, 35:199-35:203, 40:01:01-40:01:11, 40:01:13-40:04, 40:07-40:11:02, 40:13-40:14:03, 40:18-40:22N, 40:24, 40:27:01-40:27:02, 40:29-40:31, 40:33-40:35, 40:37-40:40, 40:42-40:43, 40:45-40:50, 40:52, 40:54-40:60, 40:62-40:67, 40:69, 40:72:01-40:74, 40:76, 40:78-40:82, 40:84-40:85, 40:87:01-40:92, 40:94, 40:97, 40:99-40:102, 40:104-40:105, 40:107-40:108, 40:111-40:115, 40:117-40:126, 40:129-40:130, 40:132-40:135, 40:137-40:147, 40:150-40:157, 40:160:01, 40:163-40:164, 40:168-40:173, 40:175-40:176, 40:178-40:182, 40:185-40:189, 40:191-40:197, 40:199-40:215, 44:03:01-44:03:16, 44:07, 44:13, 44:26, 44:30-44:32, 44:36-44:40, 44:43:01-44:43:02, 44:45-44:47, 44:50, 44:54, 44:57, 44:60-44:61N, 44:64:01-44:65, 44:69, 44:77, 44:81-44:82, 44:85, 44:92, 44:94, 44:96, 44:98, 44:103, 44:105, 44:107-44:111, 44:114-44:115, 44:120, 44:122, 44:124-44:125, 44:128-44:129, 44:135, 44:141, 44:143-44:144, 44:147, 44:153-44:155, 46:06, 46:13:01-46:13:03, 46:21:01-46:21:02, 46:26, 46:33, 47:01:01:01-47:08, 48:02:02, 49:11, 51:09:01-51:09:02, 51:40, 51:42, 51:73, 51:81, 51:91, 51:108, 51:120, 51:122, 52:03, 52:10:01-52:10:02, 52:28-52:29, 53:01:01-53:01:07, 53:03, 53:05, 53:07, 53:09-53:10, 53:12-53:15, 53:17:01-53:21, 53:23, 53:25-53:27, 57:01:01-57:01:13, 57:03:01-57:03:02, 57:06-57:08, 57:10-57:11, 57:15-57:18, 57:20-57:21, 57:23, 57:25-57:26, 57:29, 57:31-57:41, 57:43-57:56, 58:01:01-58:02, 58:04, 58:07, 58:10N-58:11, 58:13-58:18, 58:21, 58:23-58:33, 58:35-58:37, 78:04, 81:05																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **47R**

Lot-specific information

180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)	
			215		225			235		205	180			190			
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	
														31		*13:01:01-13:01:06, 13:04, 13:06-13:07N, 13:10-13:13, 13:17, 13:21-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 15:05:01-15:05:02, 15:20, 15:31, 15:55, 15:86, 15:107, 15:155, 15:188, 15:222, 15:224, 27:01-27:03, 27:05:02-27:05:18, 27:07:01-27:09, 27:11-27:13, 27:16-27:17, 27:19, 27:23, 27:26-27:39, 27:41-27:44, 27:46, 27:48-27:53, 27:55- 27:62, 27:64N-27:65N, 27:67, 27:70-27:78, 27:80, 27:82- 27:85, 27:87-27:90:01, 35:01:01:01-35:02:04, 35:03:06, 35:04:01-35:05:03, 35:07, 35:09:01-35:10, 35:12:01- 35:12:03, 35:15-35:17, 35:19-35:20:02, 35:22-35:23, 35:27-35:34, 35:37, 35:39-35:42:02, 35:46-35:54, 35:57, 35:63-35:65Q, 35:68:01-35:69, 35:71-35:72, 35:77- 35:78, 35:81, 35:83, 35:88-35:95, 35:97, 35:101:01-35:101:02, 35:103-35:104, 35:107-35:108:02, 35:110-35:114, 35:116, 35:119-35:123, 35:126, 35:129N- 35:134N, 35:137-35:140, 35:143-35:149, 35:154, 35:157, 35:159, 35:161, 35:165N, 35:168, 35:170-35:171, 35:173N, 35:175, 35:177-35:178, 35:180, 35:182-35:184, 35:186, 35:189, 35:191, 35:194, 35:196-35:197, 35:199- 35:203, 40:01:01-40:01:11, 40:01:13-40:04, 40:07- 40:11:02, 40:13-40:14:03, 40:18-40:22N, 40:24, 40:27:01- 40:27:02, 40:29-40:31, 40:33-40:35, 40:37-40:40, 40:42- 40:43, 40:45-40:50, 40:52, 40:54-40:60, 40:62-40:67, 40:69, 40:72:01-40:74, 40:76, 40:78-40:82, 40:84-40:85, 40:87:01-40:92, 40:94, 40:97, 40:99-40:102, 40:104- 40:105, 40:107-40:108, 40:111-40:115, 40:117-40:126, 40:129-40:130, 40:132-40:135, 40:137-40:147, 40:150- 40:157, 40:160:01, 40:163-40:164, 40:168-40:173, 40:175-40:176, 40:178-40:182, 40:185-40:189, 40:191-40:197, 40:199-40:215, 44:03:01-44:03:16, 44:07, 44:13, 44:26, 44:30-44:32, 44:36-44:40, 44:43:01- 44:43:02, 44:45-44:47, 44:50, 44:54, 44:57, 44:60- 44:61N, 44:64:01-44:65, 44:69, 44:77, 44:81-44:82, 44:85, 44:92, 44:94, 44:96, 44:98, 44:103, 44:105, 44:107-44:111, 44:114-44:115, 44:120, 44:122, 44:124- 44:125, 44:128-44:129, 44:135, 44:141, 44:143-44:144, 44:147, 44:153-44:155, 46:06, 46:13:01-46:13:03, 46:21:01-46:21:02, 46:26, 46:33, 47:01:01:01-47:08, 48:02:02, 49:11, 51:09:01-51:09:02, 51:40, 51:42, 51:73, 51:81, 51:91, 51:108, 51:120, 51:122, 52:03, 52:10:01- 52:10:02, 52:28-52:29, 53:01:01-53:01:07, 53:03, 53:05, 53:07, 53:09-53:10, 53:12-53:15, 53:17:01-53:21, 53:23, 53:25-53:27, 57:01:01-57:01:13, 57:03:01-57:03:02, 57:06-57:08, 57:10-57:11, 57:15-57:18, 57:20-57:21, 57:23, 57:25-57:26, 57:29, 57:31-57:41, 57:43-57:56, 58:01:01-58:02, 58:04, 58:07, 58:10N-58:11, 58:13- 58:18, 58:21, 58:23-58:33, 58:35-58:37, 78:04, 81:05	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
				385			220									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*13:02:01-13:02:13, 13:08Q-13:09, 13:14, 13:19, 13:27, 13:30, 13:32-13:35, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:53-13:56N, 13:58, 27:14, 27:81, 35:60, 40:06:01:01-40:06:05, 40:44, 40:53, 40:70, 40:75, 40:83, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:159, 40:162, 40:165, 40:167, 40:177, 40:190, 46:18, 51:10, 51:31, 51:93, 54:12, 54:24, 55:18, 55:34, 55:47, 59:01:01:01-59:03, 59:05																
*13:03, 35:03:01-35:03:05, 35:03:07-35:03:11, 35:06, 35:13, 35:36, 35:55-35:56, 35:59, 35:70, 35:74-35:75, 35:84, 35:98, 35:106, 35:127-35:128, 35:136, 35:150-35:153, 35:155, 35:160, 35:179, 35:181, 35:193, 35:195, 35:198, 35:204-35:205, 40:71, 44:10, 46:11, 51:15, 53:04, 56:07-56:08, 56:14, 56:33, 58:34, 59:04																
*13:15																
*13:16, 13:46, 15:42, 15:83, 40:95, 40:148, 40:161, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16, 41:20-41:21, 45:08, 45:10, 49:07, 51:16, 51:21, 51:34, 51:36, 51:82, 52:08, 78:07																
*13:18, 13:31, 13:41											11					
*13:48, 35:38, 35:156, 35:163, 35:167, 35:169, 45:14, C*15:15																
*14:01:01-14:01:02, 14:07N, 14:12, 14:19, 14:26, 14:32		2			5											
*14:02:01-14:02:02, 14:02:04, 14:02:07-14:03, 14:09, 14:11, 14:15-14:17, 14:20, 14:22-14:25, 14:27, 14:29-14:31		2			5											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)	
205			215		225			235		205	180		190				
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	
												29		31			*13:02:01-13:02:13, 13:08Q-13:09, 13:14, 13:19, 13:27, 13:30, 13:32-13:35, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:53-13:56N, 13:58, 27:14, 27:81, 35:60, 40:06:01:01-40:06:05, 40:44, 40:53, 40:70, 40:75, 40:83, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:159, 40:162, 40:165, 40:167, 40:177, 40:190, 46:18, 51:10, 51:31, 51:93, 54:12, 54:24, 55:18, 55:34, 55:47, 59:01:01:01-59:03, 59:05
											28			31			*13:03, 35:03:01-35:03:05, 35:03:07-35:03:11, 35:06, 35:13, 35:36, 35:55-35:56, 35:59, 35:70, 35:74-35:75, 35:84, 35:98, 35:106, 35:127-35:128, 35:136, 35:150-35:153, 35:155, 35:160, 35:179, 35:181, 35:193, 35:195, 35:198, 35:204-35:205, 40:71, 44:10, 46:11, 51:15, 53:04, 56:07-56:08, 56:14, 56:33, 58:34, 59:04
										27		29		31			*13:15
												29					*13:16, 13:46, 15:42, 15:83, 40:95, 40:148, 40:161, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16, 41:20-41:21, 45:08, 45:10, 49:07, 51:16, 51:21, 51:34, 51:36, 51:82, 52:08, 78:07
												29					*13:18, 13:31, 13:41
											28						*13:48, 35:38, 35:156, 35:163, 35:167, 35:169, 45:14, C*15:15
		19				23	24			26							*14:01:01-14:01:02, 14:07N, 14:12, 14:19, 14:26, 14:32
		19				23				26							*14:02:01-14:02:02, 14:02:04, 14:02:07-14:03, 14:09, 14:11, 14:15-14:17, 14:20, 14:22-14:25, 14:27, 14:29-14:31
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **47R**

Lot-specific information

Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
				385			220									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*14:02:03, 14:02:06		2														
*14:02:05		2														
*14:04		2			5											
*14:05-14:06:02, 14:13		2			5											
*14:08, 14:10		2			5											
*14:14		2	3		5											
*14:18		2	3		5											
*14:21														14		
*14:28		2			5		8								15	
*15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:37, 15:51, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:115, 15:119, 15:134, 15:153, 15:161, 15:176, 15:197-15:198, 15:200, 15:221, 15:226N, 15:238, 15:252			2	3												
*15:29, 15:38:01-15:38:02, 35:21, 35:142, 35:188, 51:37, 51:45, 51:63, 51:97, 51:116, 53:06, 53:28				3												
*15:49, 15:74, 37:21, 37:26				3												
*15:52, 15:114, 15:124		2	3													
*15:58, 15:73											11					
*15:64:01, 18:13, 18:15, 18:19, 18:21, 18:30, 18:56-18:57, 37:08				3		6										
*15:69	1		3			6				10		12				
*15:91, 15:123, 15:151, 18:12, 37:02, 40:12, 40:149, 44:130, 48:01:01-48:02:01, 48:03:01-48:04, 48:09-48:14, 48:17-48:18, 48:20- 48:23, 48:26-48:28				3		6										
*15:133, 15:229		2	3													
*15:185, 18:04, 18:07:01-18:07:02, 18:29, 35:24:01-35:25, 35:124- 35:125, 35:162, 35:190, 53:02, 57:14, 57:58, 58:09, 58:12				3												
*15:186	1	2	3							10		12				
*15:189					5		8									
*15:243		2	3													
*15:253			3			6										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **47R**

Lot-specific information

180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)
205			215		225			235		205	180		190			
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
		19							26							*14:02:03, 14:02:06
		19				23			26							*14:02:05
						23			26							*14:04
		19				23										*14:05-14:06:02, 14:13
		19				23	24									*14:08, 14:10
		19					24		26							*14:14
		19							26							*14:18
		19							26							*14:21
		19				23			26							*14:28
																*15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:37, 15:51, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:115, 15:119, 15:134, 15:153, 15:161, 15:176, 15:197-15:198, 15:200, 15:221, 15:226N, 15:238, 15:252
																*15:29, 15:38:01-15:38:02, 35:21, 35:142, 35:188, 51:37, 51:45, 51:63, 51:97, 51:116, 53:06, 53:28
	18															*15:49, 15:74, 37:21, 37:26
														31		*15:52, 15:114, 15:124
										28						*15:58, 15:73
																*15:64:01, 18:13, 18:15, 18:19, 18:21, 18:30, 18:56-18:57, 37:08
	18		20	21										30		*15:69
	18													31		*15:91, 15:123, 15:151, 18:12, 37:02, 40:12, 40:149, 44:130, 48:01:01-48:02:01, 48:03:01-48:04, 48:09-48:14, 48:17-48:18, 48:20- 48:23, 48:26-48:28
										28						*15:133, 15:229
														31		*15:185, 18:04, 18:07:01-18:07:02, 18:29, 35:24:01-35:25, 35:124- 35:125, 35:162, 35:190, 53:02, 57:14, 57:58, 58:09, 58:12
			20	21												*15:186
						23										*15:189
	18															*15:243
	18									28						*15:253
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 47R

Lot-specific information

Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
				385			220									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*18:01:01:01-18:03, 18:05-18:06, 18:08-18:11, 18:14, 18:17N-18:18, 18:20, 18:22-18:28, 18:31-18:32, 18:34-18:43, 18:45-18:55, 18:58- 18:76, 48:16			3			6										
*18:33		2	3							10						
*18:44:01-18:44:02			3			6										
*35:26					5			8								
*35:35										10		12				
*35:76, 40:61, 54:09, 55:04, 55:08, 55:49, 55:51, 56:09-56:10, 56:12, 56:15, 56:18, 81:01, 81:03-81:04N														14		
*35:82										10						
*35:85										10						
*35:96, C*15:39																
*35:109																
*35:135, 51:22, 78:03										10						
*38:01:01-38:01:02, 38:01:04- 38:02:02, 38:09, 38:11-38:12, 38:17- 38:18, 38:21, 38:24, 38:27, 38:31, 38:34N-38:35, 38:38-38:40	1	2	3													
*38:01:03	1	2	3													
*38:02:03, 38:05	1	2	3													
*38:03	1					6										
*38:04, 38:25	1	2	3													
*38:06	1		3													
*38:07	1		3													
*38:08		2	3													
*38:10, 38:37		2	3													
*38:13	1	2														
*38:14	1	2														
*38:15		2	3													
*38:16, 38:28	1															
*38:19	1	2	3				7									
*38:20		2	3													
*38:22	1	2	3													
*38:23		2	3							9						
*38:26	1															
*38:29	1	2	3									12				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **47R**

Lot-specific information

180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)	
205			215		225			235		205	180		190				
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	
														31			*18:01:01:01-18:03, 18:05-18:06, 18:08-18:11, 18:14, 18:17N-18:18, 18:20, 18:22-18:28, 18:31-18:32, 18:34-18:43, 18:45-18:55, 18:58-18:76, 48:16
														31			*18:33
								26						31			*18:44:01-18:44:02
														31			*35:26
															32		*35:35
														31			*35:76, 40:61, 54:09, 55:04, 55:08, 55:49, 55:51, 56:09-56:10, 56:12, 56:15, 56:18, 81:01, 81:03-81:04N
														31			*35:82
										28				31			*35:85
										27							*35:96, C*15:39
										27	28			31			*35:109
																	*35:135, 51:22, 78:03
		19		21			24										*38:01:01-38:01:02, 38:01:04-38:02:02, 38:09, 38:11-38:12, 38:17-38:18, 38:21, 38:24, 38:27, 38:31, 38:34N-38:35, 38:38-38:40
		19	20	21			24										*38:01:03
		19		21													*38:02:03, 38:05
	18			21			24										*38:03
	18			21													*38:04, 38:25
		19		21													*38:06
		19		21			24										*38:07
		19		w			24										*38:08
		19					24										*38:10, 38:37
		19		21			24										*38:13
		19		21		w	24										*38:14
		19		21			24										*38:15
		19		21			24										*38:16, 38:28
		19					24										*38:19
		19					24								32		*38:20
		19					24										*38:22
		19					24										*38:23
		19		21		w	24										*38:26
		19		21			24										*38:29
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **47R**

Lot-specific information

Length of spec. PCR product(s)	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
				145			165	405		165		205	385		190	220
				385			220									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*38:30		2	3													
*38:32	1	2	3													
*38:33	1	2	3					8								
*38:36		2	3													
*40:25, 40:68, 40:106																
*40:36, 40:77								8								
*40:86								8								
*40:166														14		
*40:184, 58:20, 67:02	1															
*48:06			3													
*48:07			3			6		8								
*51:13:01-51:13:02, 51:62, 51:92, 51:106, 52:14, 52:25																
*51:101									9							16
*54:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:11, 54:13-54:19, 54:21-54:23, 54:25-54:27, 55:02:01- 55:02:06, 55:07, 55:10, 55:12- 55:13, 55:16, 55:19, 55:22-55:23, 55:26-55:27, 55:30, 55:32, 55:35, 55:39, 55:41-55:43, 55:46, 55:48, 55:50, 55:54, 56:23														14		
*54:03, 56:01:01-56:02, 56:04, 56:11, 56:16-56:17, 56:20:01- 56:20:02, 56:22, 56:24, 56:26- 56:29, 56:35-56:36														14		
*54:10, 54:20, 55:09, 55:21, 55:37, 55:52											11			14		
*55:01:01-55:01:06, 55:01:08- 55:01:09, 55:03, 55:05, 55:11, 55:15, 55:17, 55:20, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:53, 55:55N-55:56														14		
*56:13, 56:25, 56:30, 82:01-82:03														14		
*56:19N											11			14		
*56:31			3											14		
*56:34														14		
*67:01:01	1				5									14		
*67:03	1				5		7							14		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)
205			215		225			235		205	180			190		
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
		19					24				28					*38:30
		19		21			24						30			*38:32
		19		21												*38:33
		19					24							31		*38:36
		?												31		*40:25, 40:68, 40:106
														31		*40:36, 40:77
												29		31		*40:86
		?												31		*40:166
				21												*40:184, 58:20, 67:02
		19												31		*48:06
	18													31		*48:07
										27	28					*51:13:01-51:13:02, 51:62, 51:92, 51:106, 52:14, 52:25
												29	30			*51:101
												29		31		*54:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:11, 54:13-54:19, 54:21-54:23, 54:25-54:27, 55:02:01- 55:02:06, 55:07, 55:10, 55:12- 55:13, 55:16, 55:19, 55:22-55:23, 55:26-55:27, 55:30, 55:32, 55:35, 55:39, 55:41-55:43, 55:46, 55:48, 55:50, 55:54, 56:23
											28			31		*54:03, 56:01:01-56:02, 56:04, 56:11, 56:16-56:17, 56:20:01- 56:20:02, 56:22, 56:24, 56:26- 56:29, 56:35-56:36
												29				*54:10, 54:20, 55:09, 55:21, 55:37, 55:52
												29				*55:01:01-55:01:06, 55:01:08- 55:01:09, 55:03, 55:05, 55:11, 55:15, 55:17, 55:20, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:53, 55:55N-55:56
											28					*56:13, 56:25, 56:30, 82:01-82:03
											28			31		*56:19N
														31		*56:31
										27	28			31		*56:34
		19		21		23	24									*67:01:01
		19		21		23	24									*67:03
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **47R**

Lot-specific information

Length of spec.	230	170	200	65	105	170	120	180	220	105	170	175	85	80	145	165
PCR product(s)				145			165	405		165		205	385		190	220
				385			220									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A*30:63							7									
C*01:30																
C*05:70	1						7									
C*06:40	1						7									
C*07:137:01-07:137:02	1						7									16
C*15:31																
C*15:51							7					12				
HLA-B allele ⁴																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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*39 subtyping.

In addition, wells number 3, 5, 6, 9, 10, 12, 13, 15 to 18, 20 to 23, 26, 27 and 29 to 32 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

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

⁴HLA-B*39 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 nucleotide sequence of the B*39012 allele has been shown to be identical B*39:01:01:01.

The nucleotide sequence of the B*3921 allele has been shown to be identical to B*39:24.

⁶The B*39:10:01 and B*67:01:02 alleles will give rise to identical amplification patterns with the HLA-B*39 subtyping kit. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B*67 kits.

⁷The B*39:01:01:02L and B*39:60 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 25.

⁸The B*39:62 and B*39:64 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 30.

⁹Primer mix 4: Specific PCR fragment of 65 bp in the B*39:58 allele. Specific PCR fragment of 145 bp in the B*39:26 allele. Specific PCR fragment of 385 bp in the B*39:51 allele.

Primer solution 7: Specific PCR fragment of 120 bp in the B*39:68 and the B*67:03 and in the A*30:63, C*05:70, C*06:40, C*07:137:01-07:137:02 and C*15:51 alleles. Specific PCR fragment of 165 bp in the B*39:17 allele. Specific PCR fragment of 220 bp in the B*39:03, 39:14, 39:24:01-39:24:02, 39:29 and 39:37 and the B*38:19 alleles. PCR fragment of 120 and 220 bp in the B*08:55 allele.

Primer solution 8: Specific PCR fragment of 180 bp in the B*39:04, 39:47 and 39:50 and the B*14:28, 15:189, 35:26, 38:33, 40:36, 40:77, 40:86 and 48:07 alleles. Specific PCR fragment of 405 bp in the B*39:46 allele.

Primer solution 10: Specific PCR fragment of 105 bp in the B*39:19:01-39:19:02 and the B*18:33, 35:82, 35:85, 35:135, 51:22 and 78:03 alleles. Specific PCR fragment of 165 bp in the B*39:07 and in the B*15:69, 15:186 and 35:35 alleles.

101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **47R**

Lot-specific information

180	160	385	100	220	150	85	185	150	265	180	140	245	60	155	230	Length of spec. PCR product(s)
205			215		225			235		205	180		190			
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
													30			A*30:63
									26							C*01:30
				21									30			C*05:70
													30			C*06:40
			20	21												C*07:137:01-07:137:02
								25								C*15:31
			20										30		32	C*15:51
																HLA-B allele ⁴
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

Primer solution 10: Specific PCR fragment of 105 bp in the B*39:19:01-39:19:02 and the B*18:33, 35:82, Primer mix 12: Specific PCR fragment of 175 bp in the B*39:07, 39:15, 39:29, 39:49 and 39:55 and the B*15:69, 15:186, 35:35 and 38:29 and the C*15:51 alleles. Specific PCR fragment of 205 bp in the B*39:61 allele.

Primer mix 13: Specific PCR fragment of 85 bp in the B*39:23, 39:27 and 39:44 alleles. Specific PCR fragment of 385 bp in the B*39:51 allele.

Primer mix 15: Specific PCR fragment of 145 bp in the B*39:54 allele. Specific PCR fragments of 190 bp in the B*39:12, 39:31 and 39:38Q and the B*14:28 alleles.

Primer solution 16: Specific PCR fragment of 165 bp in the B*39:14, 39:29 and 39:70 and the B*08:55 and 51:101 alleles. Specific PCR fragment of 220 bp in the B*39:09 and 39:16 and in the C*07:137:01-07:137:02 alleles.

Primer mix 17: Specific PCR fragment of 180 bp in the B*39:25N allele. Specific PCR fragment of 205 bp in the B*39:61 allele.

Primer solution 20: Specific PCR fragment of 100 bp in the B*39:01:05, 39:18 and 39:27 and the B*15:69, 15:186 and 38:01:03 and the C*15:51 alleles. Specific PCR fragment of 215 bp in the B*39:09 and in the C*07:137:01-07:137:02 alleles.

Primer solution 22: Specific PCR fragment of 150 bp in the B*39:45 allele. Specific PCR fragment of 225 bp in the B*39:28 allele.

Primer solution 25: Specific PCR fragment of 150 bp in the B*39:60 and in the C*15:31 alleles. Specific PCR fragment of 235 bp in the B*39:01:01:02L allele.

Primer mix 27: Specific PCR fragment of 180 bp in the B*39:38Q and in the 39:63 alleles. Specific PCR fragment of 205 bp in the B*39:32 and 39:48 and the B*13:15, 35:96, 35:109, 51:13:01-51:13:02, 51:62, 51:92, 51:106, 52:14, 52:25 and 56:34 and the C*15:39 alleles.

Primer mix 28: Specific PCR fragment of 140 bp in the B*39:56 allele. Specific PCR fragment of 180 bp in the B*39:32-39:33, 39:40:01N and 39:74 and the B*13:03, 13:48, 15:58, 15:73, 15:133, 15:229, 15:253, 35:03:01-35:03:05, 35:03:07-35:03:11, 35:06, 35:13, 35:36, 35:38, 35:55-35:56, 35:59, 35:70, 35:74-35:75, 35:84-35:85, 35:98, 35:106, 35:109, 35:127-35:128, 35:136, 35:150-35:153, 35:155-35:156, 35:160, 35:163, 35:167, 35:169, 35:179, 35:181, 35:193, 35:195, 35:198, 35:204-35:205, 38:30, 40:71, 44:10, 45:14, 46:11, 51:13:01-51:13:02, 51:15, 51:62, 51:92, 51:106, 52:14, 52:25, 53:04, 54:03, 56:01:01-56:02, 56:04, 56:07-56:08, 56:11, 56:13-56:14, 56:16-56:17, 56:19N-56:20:02, 56:22, 56:24-56:30, 56:33-56:36, 58:34, 59:04 and 82:01-82:03 and the C*15:15 alleles.

Primer mix 30: Specific PCR fragment of 60 bp in the B*39:18, 39:35 and 39:64 and the B*15:69, 38:32 and 51:101 and the C*05:70, C*06:40 and C*15:51 alleles. Specific PCR fragment of 190 bp in the B*39:52 and 39:62 alleles. Specific PCR fragment of 60 and 190 bp in the A*30:63 allele.

'w', might be weakly amplified.

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

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 47R

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-B*39 SSP subtyping kit																			
			Prod. No.:	Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	IHWC cell line	B*		200967401	200967402	200967403	201076304	200967405	200967406	201209407	201076308	201209409	200967410	200967411	201209412	201076313	201209414	201076315	200967416
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*37:01		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*39:01	*51:01	+	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*18:01		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*38:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
11	9051 PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9025 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
18	9257 32367	*14:01	*56:01	-	+	-	-	+	-	-	-	-	-	-	-	-	-	+	-
19	9038 BM16	*18:01		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
24	9035 JBUSH	*38:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
31	9019 DUCAF	*18:01		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
38	9099 LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*14:02		-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **47R**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*39 SSP subtyping kit																				
				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	201188917	200967418	200967419	201188920	201188921	201076322	201188923	201188924	201076325	200967426	201209427	201076328	200967429	201209430	200967431	201188932
IHWC cell line		B*																		
1	9001	SA	*07:02	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
5	9009	KAS011	*37:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	+	-	+	-	+	+	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
9	9026	YAR	*38:01		-	-	+	-	+	-	-	+	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
13	9025	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
17	9282	CTM3953540	*08:01	*55:01	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
18	9257	32367	*14:01	*56:01	-	-	+	-	-	-	+	+	-	+	-	+	-	-	+	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
24	9035	JBUSH	*38:01		-	-	+	-	+	-	-	+	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	+	-	-	-	+	-	-	+	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
27	9191	CH1007	*07:05	*51:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
30	9021	RSH	*42:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
34	9104	DHIF	*38:01		-	-	+	-	+	-	-	+	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
37	9065	HHKB	*07:02		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-
41	9055	H0301	*14:02		-	-	+	-	-	-	+	-	-	+	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	+	-	+	-	-	+	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-

101.566-12/04 – including *Taq* polymerase, IFU-01
 101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*39 SSP

Product number: 101.566-12/04 – including *Taq* pol.
 101.566-12u/04u – without *Taq* pol.

Lot number: 47R

Expiry date: 2015-May-01

Number of tests: 12 tests – Product No. 101.566-12/12u
 4 tests – Product No. 101.566-04/04u

Number of wells per test: 32

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-674-01	13	2010-763-13	25	2010-763-25
2	2009-674-02	14	2012-094-14	26	2009-674-26
3	2009-674-03	15	2010-763-15	27	2012-094-27
4	2010-763-04	16	2009-674-16	28	2010-763-28
5	2009-674-05	17	2011-889-17	29	2009-674-29
6	2009-674-06	18	2009-674-18	30	2012-094-30
7	2012-094-07	19	2009-674-19	31	2009-674-31
8	2010-763-08	20	2011-889-20	32	2011-889-32
9	2012-094-09	21	2011-889-21		
10	2009-674-10	22	2010-763-22		
11	2009-674-11	23	2011-889-23		
12	2012-094-12	24	2011-889-24		

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 4, 7, 10, 13, 15, 22, 25, 27, 30 and 32 were available. The specificities of the primers in primer solutions 4, 7, 10, 13, 15, 22, 25, 27, 30 and 32 were tested by separately adding one or two additional 5'-primers, respectively one or two additional 3'-primers. One or two 5'-primers in primer solutions 1, 5, 8, 13 to 16, 22, 25 and 32 were not possible to test. One or two 3'-primers in primer solutions 4, 9, 11 to 13, 15, 17, 22, 23, 27, 28 and 30 were not possible to test.

Additional primers in primer solutions 3, 8, 9, 12, 16, 17 and 20 were tested by separately adding either 5'- or 3'-primers.

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

Date of approval: 2012-November-15

Approved by:

Production Quality Control

101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*39
Product number: 101.566-12/04
Lot number: 47R

Intended use: HLA-B*39 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-November-15

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **47R**

Lot-specific information

101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **47R**

Lot-specific information

101.566-12/04 – including *Taq* polymerase, IFU-01
101.566-12u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **47R**

Lot-specific information

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