101.623-12 – including *Taq* pol., IFU-01 Rev. No. 03
101.623-12u– without *Taq* pol., IFU-02 Rev. No. 03

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

Lot No.: 84N **Lot-specific information**

Olerup SSP® HLA-C*08

Product number:	**101.623-12 – including *Taq* polymerase** **101.623-12u – without *Taq* polymerase**
Lot number:	**84N**
Expiry date:	**2014-November-01**
Number of tests:	**12**
Number of wells per test:	**32**
Storage - pre-aliquoted primers:	**dark at -20°C**
- PCR Master Mix:	**-20°C**
- Adhesive PCR seals	**RT**
- Product Insert	**RT**

This Product Description is only valid for Lot No. 84N.

CHANGES COMPARED TO THE PREVIOUS *OLERUP* SSP® HLA-C*08 LOT (55M)

The HLA-C*08 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup* SSP® HLA-C*08 lot was made **(Lot No. 55M)**.

The HLA-C*08 kit is updated for new alleles to enable separation of:

- Confirmed[1] alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

Three wells have been added to the HLA-C*08 kit, wells **30 to 32**

The Lot-specific information for HLA-C*08 including and without *Taq* polymerase is now described in one common Product Insert.

[1]As described in section Uniquely Identified Alleles.

Lot No.: 84N **Lot-specific information**

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

Well	5'-primer	3'-primer	rationale
11	Moved	Moved	Primer pair moved to well 30.
15	Moved	Moved	Primer pair moved to well 31.
16	Modified	-	Improved specificity of amplification
24	Added	Added	Primer pair added for the C*08:56 allele.
28	Added	-	Primer added for the C*08:33:02 allele.
29	Added	Added	Primer pair added for the C*08:52N allele.
30	New	New	Primer pair from well 11, new primer pair for improved resolution of the C*08:28 allele.
31	New	New	Primer pair from well15.
32	New	New	New primer pairs for the C*08:55N allele and for resolution of the C*08:02:06 and C*08:19 alleles.

Lot No.: 84N **Lot-specific information**

PRODUCT DESCRIPTION

HLA-C*08 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the C*08:01 to C*08:60 alleles.

PLATE LAYOUT

Each HLA-C*08 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 24 well PCR plate is marked with 'HLA-C*08' in silver/gray ink.
Well No. 1 is marked with the Lot No. '84N'.
A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.
The PCR plates are heat-sealed with a PCR-compatible foil.
Please note: When removing each 24 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

The interpretation of HLA-C*08 SSP subtypings will be influenced by other HLA-C alleles, as primer mixes 1, 3, 5 to 8, 11 to 13, 15 to 17, 19 to 22, 24, 25, 28 and 30 to 32 amplify non-HLA-C*08 alleles. In addition, primer mix 1 will amplify the B*58:02 allele, primer mixes 3, 11 and 22 will amplify the B*14:32 allele, primer mix 5 will amplify the B*15:33 allele, primer mix 16 will amplify the B*67:02 allele, primer mixes 22, 25 and 28 will amplify the B*44:148 allele, primer mix 25 will amplify the A*29:10 allele and primer mix 30 will amplify the A*01:01:06 allele .

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*08 alleles, i.e. **C*08:01 to C*08:60**, recognized by the HLA Nomenclature Committee in April 2012[1] will be amplified by the primers in the HLA-C*08 SSP kit[2].

The HLA-C*08 kit enables separation of the confirmed HLA-C*08 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-C*08 alleles is listed below.

The HLA-C*08 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The HLA-C*08 primer set cannot distinguish the following silent mutations: the C*08:01:01-08:01:05 alleles, the 08:02:01-08:02:05 alleles, the 08:03:01-08:03:02 alleles, the C*08:04:01-08:04:02 alleles and the 08:15:01-08:15:02 alleles.

The C*08:30 and C*08:32 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 19.

[1]HLA-C alleles listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

[2]The HLA-C*08 subtyping kit cannot separate the C*08:15:01-08:15:02 and 08:51 alleles from the C*07:148 and 07:161 alleles. The C*08 and C*07 alleles can be distinguished by the HLA-C low resolution and/or HLA-C*07 kits.

ALLELE CONFIRMATION STATUS

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
C*08:01:01	**Confirmed**	C*08:09	Unconfirmed	**C*08:27**	**Confirmed**	C*08:46	Unconfirmed
C*08:01:02	**Confirmed**	**C*08:10**	**Confirmed**	**C*08:28**	**Confirmed**	C*08:47	Unconfirmed
C*08:01:03	Unconfirmed	**C*08:11**	**Confirmed**	**C*08:29**	**Confirmed**	C*08:48	Unconfirmed
C*08:01:04	Unconfirmed	**C*08:12**	**Confirmed**	**C*08:30**	**Confirmed**	C*08:49	Unconfirmed
C*08:01:05	Unconfirmed	C*08:13	Unconfirmed	C*08:31	Unconfirmed	C*08:50	Unconfirmed
C*08:02:01	**Confirmed**	C*08:14	Unconfirmed	**C*08:32**	**Confirmed**	C*08:51	Unconfirmed
C*08:02:02	**Confirmed**	**C*08:15:01**	**Confirmed**	C*08:33:01	Unconfirmed	C*08:52N	Unconfirmed
C*08:02:03	Unconfirmed	**C*08:15:02**	**Confirmed**	C*08:33:02	Unconfirmed	C*08:53	Unconfirmed
C*08:02:04	Unconfirmed	C*08:16:01	Unconfirmed	**C*08:34**	**Confirmed**	C*08:54	Unconfirmed
C*08:02:05	Unconfirmed	C*08:16:02	Unconfirmed	C*08:35	Unconfirmed	C*08:55N	Unconfirmed
C*08:02:06	Unconfirmed	C*08:17	Unconfirmed	C*08:36N	Unconfirmed	C*08:56	Unconfirmed
C*08:02:07	Unconfirmed	C*08:18	Unconfirmed	C*08:37	Unconfirmed	C*08:57	Unconfirmed
C*08:03:01	**Confirmed**	C*08:19	Unconfirmed	C*08:38	Unconfirmed	C*08:58	Unconfirmed
C*08:03:02	Unconfirmed	**C*08:20**	**Confirmed**	C*08:39	Unconfirmed	C*08:59	Unconfirmed
C*08:04:01	**Confirmed**	**C*08:21**	**Confirmed**	C*08:40	Unconfirmed	C*08:60	Unconfirmed
C*08:04:02	Unconfirmed	C*08:22	Unconfirmed	**C*08:41**	**Confirmed**		
C*08:05	**Confirmed**	**C*08:23**	**Confirmed**	C*08:42	Unconfirmed		
C*08:06	**Confirmed**	C*08:24	Unconfirmed	**C*08:43**	**Confirmed**		
C*08:07	Unconfirmed	C*08:25	Unconfirmed	C*08:44	Unconfirmed		
C*08:08	Unconfirmed	C*08:26N	Unconfirmed	C*08:45	Unconfirmed		

[1]Allele status "confirmed" or "unconfirmed" as listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 75 alleles generate 54 amplification patterns that can be combined in 1485 homozygous and heterozygous combinations. 663 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.

Lot No.: 84N

Lot-specific information

--+----- ---+---- --+----- --------	*08:29, *08:29 = *08:29, *08:49
--+----- ---++--- -------- --------	*08:02:01, *08:02:01 = *08:02:01, *08:49
+-+----- ---+---- -------- --------	*08:04:01, *08:04:01 = *08:04:01, *08:49 = *08:04:01, *08:57 = *08:49, *08:57
--+----- ---+---- --+-+--- --------	*08:27, *08:27 = *08:27, *08:29 = *08:27, *08:49
--+----- ---+---- -++----- --------	*08:29, *08:31 = *08:31, *08:31 = *08:31, *08:49
--+----- ---++--- -------- -------+	*08:02:01, *08:55N = *08:49, *08:55N
--+----- ---++--- -------- ------+-	*08:02:01, *08:02:06 = *08:02:06, *08:02:06 = *08:02:06, *08:49
--+----- ---++--- -------- ----+---	*08:02:01, *08:52N = *08:49, *08:52N = *08:52N, *08:52N
--+----- ---++--- -------- ---+----	*08:02:01, *08:02:07 = *08:02:07, *08:02:07 = *08:02:07, *08:49
--+----- ---++--- -------- --+-----	*08:02:01, *08:43 = *08:43, *08:43 = *08:43, *08:49
--+----- ---++--- -------+ --------	*08:02:01, *08:37 = *08:37, *08:37 = *08:37, *08:49
--+----- ---++--- -----+-- --------	*08:02:01, *08:33:01 = *08:33:01, *08:33:01 = *08:33:01, *08:49
--+----- ---++--- --+----- --------	*08:02:01, *08:29 = *08:02:01, *08:30 = *08:29, *08:30 = *08:30, *08:30 = *08:30, *08:49
--+----- ---+++-- -------- --------	*08:02:01, *08:18 = *08:18, *08:49
--+----- --+++--- -------- --------	*08:02:01, *08:12 = *08:12, *08:12 = *08:12, *08:49
--+----- -+-+++--- -------- --------	*08:02:01, *08:17 = *08:17, *08:17 = *08:17, *08:49
--+-----+ ---+++--- -------- --------	*08:02:01, *08:34 = *08:34, *08:34 = *08:34, *08:49
--+---+- ---+++--- -------- --------	*08:02:01, *08:07 = *08:02:01, *08:47 = *08:07, *08:07 = *08:07, *08:47 = *08:07, *08:49 = *08:47, *08:49
--+--+-- ---+++--- -------- --------	*08:02:01, *08:23 = *08:23, *08:23 = *08:23, *08:49
+------- ---+---- ----+--- +-------	*08:39, *08:39 = *08:39, *08:57
+-+----- ---+---- --+----- --------	*08:04:01, *08:29 = *08:29, *08:57
+-+----- ---+--+- -------- --------	*08:04:01, *08:13 = *08:13, *08:49 = *08:13, *08:57
+-+----- ---+++--- -------- --------	*08:02:01, *08:04:01 = *08:02:01, *08:57
++------ ------+- ----+--- --------	*08:16:01, *08:16:01 = *08:16:01, *08:16:02
++------ ---+---- ----+--- --------	*08:01:01, *08:01:01 = *08:01:01, *08:16:02 = *08:01:01, *08:57 = *08:16:02, *08:57
++------ +------- ----+--- --------	*08:10, *08:10 = *08:10, *08:16:02
--+----- ---+++--- -------- ------++	*08:02:01, *08:19 = *08:02:06, *08:19 = *08:02:06, *08:55N = *08:19, *08:19 = *08:19, *08:49 = *08:19, *08:55N
--+----- ---+++--- ----+--- ---+----	*08:02:01, *08:33:02 = *08:02:07, *08:33:02 = *08:33:02, *08:33:02 = *08:33:02, *08:49
--+----- ---+++--- ---++--- --------	*08:02:01, *08:35 = *08:35, *08:35 = *08:35, *08:49
--+----- ---+++--- --+----- -------+	*08:29, *08:55N = *08:30, *08:55N
--+----- ---+++--- --+----- ------+-	*08:02:06, *08:29 = *08:02:06, *08:30
--+----- ---+++--- --+----- ----+---	*08:29, *08:52N = *08:30, *08:52N
--+----- ---+++--- --+----- ---+----	*08:02:07, *08:29 = *08:02:07, *08:30
--+----- ---+++--- --+----- --+-----	*08:29, *08:43 = *08:30, *08:43
--+----- ---+++--- --+----+ --------	*08:29, *08:37 = *08:30, *08:37
--+----- ---+++--- --+--+-- --------	*08:29, *08:33:01 = *08:30, *08:33:01
--+----- ---+++--- --+-+--- --------	*08:02:01, *08:27 = *08:27, *08:30
--+----- ---+++--- -++----- --------	*08:02:01, *08:31 = *08:30, *08:31
--+----- ---+++--- +------- -----+--	*08:02:01, *08:28 = *08:28, *08:28 = *08:28, *08:49
--+----- ---++-+- +------- --------	*08:02:01, *08:25 = *08:25, *08:49
--+----- ---++++-- --+----- --------	*08:18, *08:29 = *08:18, *08:30
--+----- --++++--- --+----- --------	*08:12, *08:29 = *08:12, *08:30
--+----- -+-++++--- --+----- --------	*08:17, *08:29 = *08:17, *08:30
--+-----+ ---++++--- --+----- --------	*08:29, *08:34 = *08:30, *08:34
--+---+- ---++++--- -------- -------+	*08:07, *08:55N = *08:47, *08:55N
--+---+- ---++++--- -------- ------+-	*08:02:06, *08:07 = *08:02:06, *08:47
--+---+- ---++++--- -------- ----+---	*08:07, *08:52N = *08:47, *08:52N
--+---+- ---++++--- -------- ---+----	*08:02:07, *08:07 = *08:02:07, *08:47
--+---+- ---++++--- -------- --+-----	*08:07, *08:43 = *08:43, *08:47
--+---+- ---++++--- -------+ --------	*08:07, *08:37 = *08:37, *08:47
--+---+- ---++++--- -----+-- --------	*08:07, *08:33:01 = *08:33:01, *08:47
--+---+- ---++++--- --+----- --------	*08:07, *08:29 = *08:07, *08:30 = *08:29, *08:47 = *08:30, *08:47
--+---+- ---+++-- -------- --------	*08:07, *08:18 = *08:18, *08:47
--+---+- --+++--- -------- --------	*08:07, *08:12 = *08:12, *08:47
--+---+- -+-+++--- -------- --------	*08:07, *08:17 = *08:17, *08:47
--+---++ ---++++--- -------- --------	*08:07, *08:34 = *08:34, *08:47
--+--+-- ---++++--- --+----- --------	*08:23, *08:29 = *08:23, *08:30
--+--++- ---++++--- -------- --------	*08:07, *08:23 = *08:23, *08:47

Lot No.: 84N

	Lot-specific information
--+-+--- ---+-+--- +------- --------	*08:02:01, *08:05 = *08:05, *08:05 = *08:05, *08:15:01 = *08:05, *08:49
+-+----- ---+---- ----+--- +-------	*08:04:01, *08:39 = *08:39, *08:49
+-+----- ---+---- ---+-+-- --------	*08:04:01, *08:54 = *08:49, *08:54 = *08:54, *08:54 = *08:54, *08:57
+-+----- ---+---- --+-+--- --------	*08:04:01, *08:27 = *08:27, *08:57
+-+----- ---+---- -++----- --------	*08:04:01, *08:31 = *08:31, *08:57
+-+----- ---+-+-- -------- -------+	*08:04:01, *08:55N = *08:55N, *08:57
+-+----- ---+-+-- -------- ------+-	*08:02:06, *08:04:01 = *08:02:06, *08:57
+-+----- ---+-+-- -------- ----+---	*08:04:01, *08:52N = *08:52N, *08:57
+-+----- ---+-+-- -------- ---+----	*08:02:07, *08:04:01 = *08:02:07, *08:57
+-+----- ---+-+-- -------- --+-----	*08:04:01, *08:43 = *08:43, *08:57
+-+----- ---+-+-- -------+ --------	*08:04:01, *08:37 = *08:37, *08:57
+-+----- ---+-+-- -----+-- --------	*08:04:01, *08:33:01 = *08:33:01, *08:57
+-+----- ---+-+-- --+----- --------	*08:04:01, *08:30 = *08:30, *08:57
+-+----- ---++-+- -------- --------	*08:04:01, *08:18 = *08:18, *08:57
+-+----- --+-+--- -------- --------	*08:04:01, *08:12 = *08:12, *08:57
+-+----- -+-+--- -------- --------	*08:04:01, *08:17 = *08:17, *08:57
+-+-----+ ---+-+-- -------- --------	*08:04:01, *08:34 = *08:34, *08:57
+-+---+- ---+-+-- -------- --------	*08:04:01, *08:07 = *08:04:01, *08:47 = *08:07, *08:57
+-+--+-- ---+-+-- -------- --------	*08:04:01, *08:23 = *08:23, *08:57
++------ ---+---- ----+--- -----+--	*08:01:01, *08:20 = *08:16:02, *08:20 = *08:20, *08:20 = *08:20, *08:57
++------ ---+---- ----+--- ---+----	*08:01:01, *08:44 = *08:16:02, *08:44 = *08:44, *08:44 = *08:44, *08:57
++------ ---+---- ----+--- -+------	*08:01:01, *08:42 = *08:16:02, *08:42 = *08:42, *08:42 = *08:42, *08:57
++------ ---+---- ----+--- +-------	*08:01:01, *08:39 = *08:16:02, *08:39
++------ ---+---- ----+-+- --------	*08:01:01, *08:36N = *08:16:02, *08:36N = *08:36N, *08:36N = *08:36N, *08:57
++------ ---+---- ----++-- --------	*08:01:01, *08:41 = *08:16:02, *08:41 = *08:41, *08:41 = *08:41, *08:57
++------ ---+---- -+--+--- --------	*08:01:01, *08:26N = *08:16:02, *08:26N = *08:26N, *08:26N = *08:26N, *08:57
++------ ---+---+ ----+--- --------	*08:01:01, *08:22 = *08:16:02, *08:22 = *08:22, *08:22 = *08:22, *08:57
++------ ---+--+- ----+--- --------	*08:01:01, *08:16:01 = *08:16:01, *08:57
++------ ---+-+-- ----+--- --------	*08:01:01, *08:08 = *08:08, *08:08 = *08:08, *08:16:02 = *08:08, *08:57
++------ +--+---- ----+--- --------	*08:01:01, *08:10 = *08:01:01, *08:24 = *08:10, *08:24 = *08:10, *08:57 = *08:16:02, *08:24 = *08:24, *08:24 = *08:24, *08:57
++-----+ ---+---- ----+--- --------	*08:01:01, *08:11 = *08:11, *08:11 = *08:11, *08:16:02 = *08:11, *08:57
++--+--- ---+---- ----+--- --------	*08:01:01, *08:15:01 = *08:15:01, *08:16:02
++-+---- ---+---- ----+--- --------	*08:01:01, *08:03:01 = *08:03:01, *08:03:01 = *08:03:01, *08:16:02 = *08:03:01, *08:57
+++----- ------+- ----+--- --------	*08:13, *08:16:01 = *08:13, *08:16:02
+++----- ---+---- ----+--- --------	*08:01:01, *08:04:01 = *08:01:01, *08:49 = *08:04:01, *08:16:02 = *08:16:02, *08:49
--+----- ---++--- ---++--- ---+----	*08:02:07, *08:35 = *08:33:02, *08:35
--+----- ---++--- --+----- ------++	*08:19, *08:29 = *08:19, *08:30
--+----- ---++--- --+-+--- ---+----	*08:02:07, *08:27 = *08:27, *08:33:02 = *08:29, *08:33:02 = *08:30, *08:33:02
--+----- ---++--- --+++--- --------	*08:27, *08:35 = *08:29, *08:35 = *08:30, *08:35
--+----- ---++--- +-+----- -----+--	*08:28, *08:29 = *08:28, *08:30
--+----- ---++-+- +-+----- --------	*08:25, *08:29 = *08:25, *08:30
--+---+- ---++--- -------- ------++	*08:07, *08:19 = *08:19, *08:47
--+---+- ---++--- ----+--- ---+----	*08:07, *08:33:02 = *08:33:02, *08:47
--+---+- ---++--- ---++--- --------	*08:07, *08:35 = *08:35, *08:47
--+---+- ---++--- --+-+--- --------	*08:07, *08:27 = *08:27, *08:47
--+---+- ---++--- -++----- --------	*08:07, *08:31 = *08:31, *08:47
--+---+- ---++--- +------- -----+--	*08:07, *08:28 = *08:28, *08:47
--+---+- ---++-+- +------- --------	*08:07, *08:25 = *08:25, *08:47
--+-+--- ---++--- +------- -----+--	*08:05, *08:28 = *08:15:01, *08:28
--+-+--- ---++--- +-+----- --------	*08:05, *08:29 = *08:05, *08:30
--+-+--- ---++-+- +------- --------	*08:05, *08:25 = *08:15:01, *08:25
--+-+-+- ---++--- +------- --------	*08:05, *08:07 = *08:05, *08:47
+-+----- ---+---- --+-+--- +-------	*08:27, *08:39 = *08:29, *08:39
+-+----- ---+---- --++--- --------	*08:27, *08:54 = *08:29, *08:54
+-+----- ---++--- -------- ------++	*08:04:01, *08:19 = *08:19, *08:57
+-+----- ---++--- ----+--- ---+----	*08:04:01, *08:33:02 = *08:33:02, *08:57
+-+----- ---++--- ---++--- --------	*08:02:01, *08:54 = *08:04:01, *08:35 = *08:35, *08:54 = *08:35, *08:57
+-+----- ---++--- +------- -----+--	*08:04:01, *08:28 = *08:28, *08:57

Lot No.: 84N **Lot-specific information**

+-+------ ---++-+- +------- --------	*08:04:01, *08:25 = *08:25, *08:57
+-+---+- ---++-+- -------- --------	*08:07, *08:13 = *08:13, *08:47
+-+-+--- ---+---- +------- --------	*08:04:01, *08:05 = *08:05, *08:57
++------ ---+---+ ----+--+ --------	*08:01:01, *08:56 = *08:16:02, *08:56 = *08:22, *08:56 = *08:56, *08:56 = *08:56, *08:57
++------ +--+---- ----+--- -----+--	*08:10, *08:20 = *08:20, *08:24
++------ +--+---- ----+--- ---+----	*08:10, *08:44 = *08:24, *08:44
++------ +--+---- ----+--- -+------	*08:10, *08:42 = *08:24, *08:42
++------ +--+---- ----+--- +-------	*08:10, *08:39 = *08:24, *08:39
++------ +--+---- ----+-+- --------	*08:10, *08:36N = *08:24, *08:36N
++------ +--+---- ----++-- --------	*08:10, *08:41 = *08:24, *08:41
++------ +--+---- -+--+--- --------	*08:10, *08:26N = *08:24, *08:26N
++------ +--+---+ ----+--- --------	*08:10, *08:22 = *08:22, *08:24
++------ +--+-+-- ----+--- --------	*08:08, *08:10 = *08:08, *08:24
++------+ -+-+---- ----+--- --------	*08:01:01, *08:09 = *08:09, *08:09 = *08:09, *08:11 = *08:09, *08:16:02 = *08:09, *08:57
++------+ +--+---- ----+--- --------	*08:10, *08:11 = *08:11, *08:24
++-----+- ---+---- ----+--- --------	*08:01:01, *08:47 = *08:16:02, *08:47
++--+--- ---+---- +---+--- --------	*08:01:01, *08:21 = *08:15:01, *08:21 = *08:16:02, *08:21 = *08:21, *08:21 = *08:21, *08:57
++--+--- +--+---- ----+--- --------	*08:10, *08:15:01 = *08:15:01, *08:24
++-+---- ---+---- ----+--- -----+--	*08:01:01, *08:40 = *08:03:01, *08:20 = *08:03:01, *08:40 = *08:16:02, *08:40 = *08:20, *08:40 = *08:40, *08:40 = *08:40, *08:57
++-+---- ---+---- ----+--- ----+---	*08:01:01, *08:38 = *08:03:01, *08:38 = *08:16:02, *08:38 = *08:38, *08:38 = *08:38, *08:57
++-+---- ---+---+ ----+--- --------	*08:01:01, *08:14 = *08:03:01, *08:14 = *08:03:01, *08:22 = *08:14, *08:14 = *08:14, *08:16:02 = *08:14, *08:22 = *08:14, *08:57
++-+---- +--+---- ----+--- --------	*08:03:01, *08:10 = *08:03:01, *08:24
++-+-+-- ---+---- ----+--- --------	*08:01:01, *08:06 = *08:03:01, *08:06 = *08:06, *08:06 = *08:06, *08:16:02 = *08:06, *08:57
+++----- ---+---- ----+--- -----+--	*08:04:01, *08:20 = *08:20, *08:49
+++----- ---+---- ----+--- ---+----	*08:04:01, *08:44 = *08:44, *08:49
+++----- ---+---- ----+--- -+------	*08:04:01, *08:42 = *08:42, *08:49
+++----- ---+---- ----+-+- --------	*08:04:01, *08:36N = *08:36N, *08:49
+++----- ---+---- ----++-- --------	*08:04:01, *08:41 = *08:41, *08:49
+++----- ---+---- ---++--- --------	*08:01:01, *08:54 = *08:16:02, *08:54
+++----- ---+---- --+-+--- --------	*08:01:01, *08:27 = *08:01:01, *08:29 = *08:16:02, *08:27 = *08:16:02, *08:29
+++----- ---+---- -+--+--- --------	*08:04:01, *08:26N = *08:26N, *08:49
+++----- ---+---+ ----+--- --------	*08:04:01, *08:22 = *08:22, *08:49
+++----- ---+--+- ----+--- --------	*08:01:01, *08:13 = *08:04:01, *08:16:01 = *08:16:01, *08:49
+++----- ---+-+-- ----+--- --------	*08:04:01, *08:08 = *08:08, *08:49
+++----- ---++--- ----+--- --------	*08:01:01, *08:02:01 = *08:02:01, *08:16:02
+++----- +--+---- ----+--- --------	*08:04:01, *08:10 = *08:04:01, *08:24 = *08:10, *08:49 = *08:24, *08:49
+++----+ ---+---- ----+--- --------	*08:04:01, *08:11 = *08:11, *08:49
+++---- ---+---- ----+--- --------	*08:03:01, *08:04:01 = *08:03:01, *08:49
+-+----- ---++--- ----+--- +--+----	*08:02:07, *08:39 = *08:33:02, *08:39
+-+----- ---++--- ---++--- ---+----	*08:02:07, *08:54 = *08:33:02, *08:54
+-+---+- ---++--- ---++--- --------	*08:07, *08:54 = *08:47, *08:54
++------ +--+---+ ----+--+ --------	*08:10, *08:56 = *08:24, *08:56
++------+ ++-+---- ----+--- --------	*08:09, *08:10 = *08:09, *08:24
++-----+- +--++--- ----+--- --------	*08:10, *08:47 = *08:24, *08:47
++--+--- +--+---- +---+--- --------	*08:10, *08:21 = *08:21, *08:24
++-+---- ---+---- ----+--- ----++--	*08:20, *08:38 = *08:38, *08:40
++-+---- ---+---+ ----+--- -----+--	*08:14, *08:20 = *08:14, *08:40 = *08:22, *08:40
++-+---- ---+---+ ----+--- ----+---	*08:14, *08:38 = *08:22, *08:38
++-+---- ---+---+ ----+--+ --------	*08:03:01, *08:56 = *08:14, *08:56
++-+---- +--+---- ----+--- -----+--	*08:10, *08:40 = *08:24, *08:40
++-+---- +--+---- ----+--- ----+---	*08:10, *08:38 = *08:24, *08:38
++-+---- +--+---+ ----+--- --------	*08:10, *08:14 = *08:14, *08:24
++-+-+-- ---+---- ----+--- -----+--	*08:06, *08:20 = *08:06, *08:40
++-+-+-- ---+---+ ----+--- --------	*08:06, *08:14 = *08:06, *08:22
++-+-+-- +--+---- ----+--- --------	*08:06, *08:10 = *08:06, *08:24
+++----- ----+-+- +---+--- --------	*08:16:01, *08:25 = *08:16:02, *08:25

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++++++ ---+---- --+-+--- ------+--	*08:20, *08:27 = *08:20, *08:29
++++++ ---+---- --+-+--- ---+----	*08:27, *08:44 = *08:29, *08:44
++++++ ---+---- --+-+--- -+------	*08:27, *08:42 = *08:29, *08:42
++++++ ---+---- --+-+-+- --------	*08:27, *08:36N = *08:29, *08:36N
++++++ ---+---- --+-++-- --------	*08:27, *08:41 = *08:29, *08:41
++++++ ---+---- -++-+--- --------	*08:01:01, *08:31 = *08:16:02, *08:31 = *08:26N, *08:27 = *08:26N, *08:29 = *08:26N, *08:31
++++++ ---+---+ ----+--+ --------	*08:04:01, *08:56 = *08:49, *08:56
++++++ ---+---+ --+-+--- --------	*08:22, *08:27 = *08:22, *08:29
++++++ ---+--+- --+-+--- --------	*08:16:01, *08:27 = *08:16:01, *08:29
++++++ ---+-+-- --+-+--- --------	*08:08, *08:27 = *08:08, *08:29
++++++ ---++--- ----+--- ------+-	*08:01:01, *08:02:06 = *08:02:06, *08:16:02
++++++ ---++--- ----+--- ----+---	*08:01:01, *08:52N = *08:16:02, *08:52N
++++++ ---++--- ----+--- ---+----	*08:01:01, *08:02:07 = *08:01:01, *08:33:02 = *08:02:01, *08:44 = *08:02:07, *08:16:02 = *08:02:07, *08:44 = *08:16:02, *08:33:02 = *08:33:02, *08:44
++++++ ---++--- ----+--- --+-----	*08:01:01, *08:43 = *08:16:02, *08:43
++++++ ---++--- ----+--+ --------	*08:01:01, *08:37 = *08:16:02, *08:37
++++++ ---++--- ----++-- --------	*08:01:01, *08:33:01 = *08:02:01, *08:41 = *08:16:02, *08:33:01 = *08:33:01, *08:41
++++++ ---++--- ---++--- --------	*08:01:01, *08:35 = *08:16:02, *08:35
++++++ ---++--- --+-+--- --------	*08:01:01, *08:30 = *08:16:02, *08:30
++++++ ---+++-- ----+--- --------	*08:01:01, *08:18 = *08:02:01, *08:08 = *08:08, *08:18
++++++ --+++--- ----+--- --------	*08:01:01, *08:12 = *08:12, *08:16:02
++++++ -+-+--- ----+--- --------	*08:01:01, *08:17 = *08:16:02, *08:17
++++++ +--+---- ---+--- --------	*08:10, *08:54 = *08:24, *08:54
++++++ +--+---- --+-+--- --------	*08:10, *08:27 = *08:10, *08:29 = *08:24, *08:27 = *08:24, *08:29
++++++ +--+--- ----+--- --------	*08:02:01, *08:10 = *08:02:01, *08:24
+++++++ ---+---- --+-+--- --------	*08:11, *08:27 = *08:11, *08:29
+++++++ ---+--- ----+--- --------	*08:01:01, *08:34 = *08:02:01, *08:11 = *08:11, *08:34 = *08:16:02, *08:34
+++++++ -+-+---- ----+--- --------	*08:04:01, *08:09 = *08:09, *08:49
++++++- ---+--- ----+--- --------	*08:01:01, *08:07 = *08:07, *08:16:02
++++-+-- ---+--- ----+--- --------	*08:01:01, *08:23 = *08:16:02, *08:23
+++-+--- ---+---- +---+--- --------	*08:04:01, *08:21 = *08:21, *08:49
++++---- ---+---- ----+--- -----+--	*08:04:01, *08:40 = *08:40, *08:49
++++---- ---+---- ----+--- ----+---	*08:04:01, *08:38 = *08:38, *08:49
++++---- ---+---- --+-+--- --------	*08:03:01, *08:27 = *08:03:01, *08:29
++++---- ---+---+ ----+--- --------	*08:04:01, *08:14 = *08:14, *08:49
++++-+-- ---+---- ----+--- --------	*08:04:01, *08:06 = *08:06, *08:49
++++---- ---+---+ --+-+--+ --------	*08:27, *08:56 = *08:29, *08:56
++++---- ---+--- ----+--- ------++	*08:01:01, *08:19 = *08:16:02, *08:19
++++---- ---+--- ----+--- ---+-+--	*08:02:07, *08:20 = *08:20, *08:33:02
++++---- ---+--- ----+--- -+-+----	*08:02:07, *08:42 = *08:33:02, *08:42
++++---- ---+--- ----+-+- ---+----	*08:02:07, *08:36N = *08:33:02, *08:36N
++++---- ---+--- ----++-- ---+----	*08:02:07, *08:41 = *08:33:01, *08:44 = *08:33:02, *08:41
++++---- ---+--- -+---+--- ---+----	*08:02:07, *08:26N = *08:26N, *08:33:02
++++---- ---+--- +---+--- -----+--	*08:01:01, *08:28 = *08:16:02, *08:28 = *08:20, *08:28
++++---- ---+--+ ----+--- ---+----	*08:02:07, *08:22 = *08:22, *08:33:02
++++---- ---+--+ ----+--+ --------	*08:02:01, *08:56 = *08:22, *08:37 = *08:37, *08:56
++++---- ---++-- ----+--- ---+----	*08:02:07, *08:16:01 = *08:16:01, *08:33:02
++++---- ---+++- ----+--- ---+----	*08:02:07, *08:08 = *08:08, *08:33:02 = *08:18, *08:44
++++---- ---+++- ----++- --------	*08:08, *08:33:01 = *08:18, *08:41
++++---- +--+---- -++-+--- --------	*08:10, *08:31 = *08:24, *08:31
++++---- +--+--- ----+--- ------+-	*08:02:06, *08:10 = *08:02:06, *08:24
++++---- +--+--- ----+--- ----+---	*08:10, *08:52N = *08:24, *08:52N
++++---- +--+--- ----+--- ---+----	*08:02:07, *08:10 = *08:02:07, *08:24 = *08:10, *08:33:02 = *08:24, *08:33:02
++++---- +--+--- ----+--- --+-----	*08:10, *08:43 = *08:24, *08:43
++++---- +--+--- ----+--+ --------	*08:10, *08:37 = *08:24, *08:37
++++---- +--+--- ----++-- --------	*08:10, *08:33:01 = *08:24, *08:33:01
++++---- +--+--- ---+--- --------	*08:10, *08:35 = *08:24, *08:35
++++---- +--+--- --+-+--- --------	*08:10, *08:30 = *08:24, *08:30
++++---- +-+++--- ----+--- --------	*08:10, *08:12 = *08:12, *08:24

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++------ ++-++--- ----+--- --------	*08:10, *08:17 = *08:17, *08:24
++-----+ --++--- ----+--- ---+----	*08:02:07, *08:11 = *08:11, *08:33:02 = *08:34, *08:44
++-----+ --++--- ----++-- --------	*08:11, *08:33:01 = *08:34, *08:41
++-----+ --++--- ----+--- --------	*08:08, *08:34 = *08:11, *08:18
++-----+ -+-+--- --+-+--- --------	*08:09, *08:27 = *08:09, *08:29
++-----+ -+-++--- ----+--- --------	*08:02:01, *08:09 = *08:09, *08:17 = *08:09, *08:34 = *08:11, *08:17
++-----+ +--++--- ----+--- --------	*08:10, *08:34 = *08:24, *08:34
++----+- +--++--- ----+--- --------	*08:07, *08:10 = *08:07, *08:24
++---+-- +--++--- ----+--- --------	*08:10, *08:23 = *08:23, *08:24
++-+--- ---+--- +-+-+--- --------	*08:21, *08:27 = *08:21, *08:29
++-+--- ---++--- +---+--- --------	*08:01:01, *08:05 = *08:02:01, *08:21 = *08:05, *08:16:02 = *08:05, *08:21
++++---- ---+--- --+-+--- -----+--	*08:27, *08:40 = *08:29, *08:40
++++---- ---+--- --+-+--- ----+---	*08:27, *08:38 = *08:29, *08:38
++++---- ---+---+ --+-+--- --------	*08:14, *08:27 = *08:14, *08:29
++++---- ---++--- ----+--- ----+---	*08:02:01, *08:38 = *08:03:01, *08:52N = *08:38, *08:52N
++++---- ---++--- ----+--- ---+----	*08:02:07, *08:03:01 = *08:03:01, *08:33:02
++++-+-- ---+--- --+-+--- --------	*08:06, *08:27 = *08:06, *08:29
++++-+-- ---++--- ----+--- --------	*08:02:01, *08:06 = *08:03:01, *08:23 = *08:06, *08:23
++------ ---++--+ ----+--+ ---+----	*08:02:07, *08:56 = *08:33:02, *08:56
++------ ---++-+- +---+--- -----+--	*08:16:01, *08:28 = *08:20, *08:25
++------ +--++--- ----+--- ------++	*08:10, *08:19 = *08:19, *08:24
++------ +--++--- +---+--- -----+--	*08:10, *08:28 = *08:24, *08:28
++-----+ -+-++--- ----+--- ---+----	*08:02:07, *08:09 = *08:09, *08:33:02
++-+--- ---++--- +---+--- -----+--	*08:05, *08:20 = *08:21, *08:28
++-+--- ---++--- +---+--- ---+----	*08:02:07, *08:21 = *08:05, *08:44 = *08:21, *08:33:02
++-+--- ---++--- +---++-- --------	*08:05, *08:41 = *08:21, *08:33:01
++-+--- ---++-+- +---+--- --------	*08:05, *08:16:01 = *08:21, *08:25
++-+--- ---+++-- +---+--- --------	*08:05, *08:08 = *08:18, *08:21
++-+--- +--++--- +---+--- --------	*08:05, *08:10 = *08:05, *08:24
++-+---+ ---++--- +---+--- --------	*08:05, *08:11 = *08:21, *08:34
++++---- ---++--- ----+--- ---+-+--	*08:02:07, *08:40 = *08:33:02, *08:40
++++---- ---++--- ----+--- ---++---	*08:02:07, *08:38 = *08:33:02, *08:38
++++---- ---++--- +---+--- -----+--	*08:03:01, *08:28 = *08:28, *08:40
++++---- ---+++--+ ----+--- ---+----	*08:02:07, *08:14 = *08:14, *08:33:02
++++-+-- ---++--- ----+--- ----+---	*08:06, *08:52N = *08:23, *08:38
++++-+-- ---++--- ----+--- ---+----	*08:02:07, *08:06 = *08:06, *08:33:02

*08:01:01 = *08:01:01-08:01:05 and 08:46, 08:50, 08:58 and 08:60
*08:02:01 = *08:02:01-08:02:05 and 08:45, 08:48 and 08:53
*08:03:01 = *08:03:01-08:03:02
*08:04:01 = *08:04:01-08:04:02
*08:11 = *08:11 and 08:59
*08:15:01 = *08:15:01-08:15:02 and 08:51
*08:30 = *08:30 and *08:32

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SPECIFICITY TABLE

HLA-C*08 SSP subtyping

Specificities and sizes of the PCR products of the 32 primer mixes used for HLA-C*08 SSP subtyping

Primer Mix	Size of spec. PCR product[1]	Size of control band[2]	Amplified HLA-C*08 alleles[3]	Other amplified HLA Class I alleles[4]
1	250 bp	**800 bp**	*08:01:01-08:01:05, 08:03:01-08:04:02, 08:06, 08:08-08:11, 08:13-08:14, 08:16:01-08:16:02, 08:20-08:22, 08:24, 08:26N, 08:36N, 08:38-08:42, 08:44, 08:46, 08:50, 08:54, 08:56-08:60	*01:22, 01:35, 02:03, 02:16:01-02:16:02, 02:18, 04:04:01-04:04:02, 04:06, 04:13, 04:34, 04:58, 05:11, 05:17, 05:27, 05:68, 06:04, 12:14:01-12:14:02, 12:18:01-12:18:02, 12:20, 14:06, 14:15, 15:02:01-15:07, 15:09-15:13, 15:15-15:24, 15:26-15:50, 15:52-15:60, 16:35, 16:40, 17:01:01:01-17:11, **B*58:02**
2[5]	115 bp	1070 bp	*08:01:01-08:01:05, 08:03:01-08:03:02, 08:06, 08:08-08:11, 08:14, 08:16:01-08:16:02, 08:20-08:22, 08:24, 08:26N, 08:36N, 08:38, 08:40-08:42, 08:44, 08:46, 08:50, 08:56, 08:58-08:60	
3[5]	115 bp	**800 bp**	*08:02:01-08:02:07, 08:04:01-08:05, 08:07, 08:12-08:13, 08:17-08:19, 08:23, 08:25, 08:27-08:35, 08:37, 08:43, 08:45, 08:48-08:49, 08:52N-08:55N	*05:01:01:01-05:01:18, 05:03-05:08, 05:10-05:11, 05:13-05:16, 05:18:01-05:51Q, 05:53-05:61, 05:63-05:67, 05:69-05:74, 07:41, **B*14:32**
4[5]	110 bp	1070 bp	*08:03:01-08:03:02, 08:06, 08:14, 08:38, 08:40	
5	155 bp	1070 bp	*08:05, 08:15:01-08:15:02, 08:21, 08:51	*01:13, 02:51, 03:87, 05:09:01-05:09:02, 05:17, 05:42, 05:46, 05:52, 06:67, 07:101, 07:130, 07:148, 07:161, 16:27, 17:05, **B*15:33**
6[8]	270 bp, 310 bp	**800 bp**	*08:06, 08:23	*16:33
7[5]	100 bp	1070 bp	*08:07, 08:47	*05:23, 05:62

8[9]	225 bp, 290 bp	1070 bp	*08:09, 08:11, 08:34, 08:59	*05:04, 07:68
9[10]	385 bp, 505 bp	1070 bp	*08:10, 08:24	
10[5,11]	110 bp, 140 bp	**800 bp**	*08:09, 08:17	
11[6, 12]	280 bp	**800 bp**	*08:12	*05:16, **B*14:32**
12	165 bp	**800 bp**	*08:01:01-08:09, 08:11-08:12, 08:14-08:15:02, 08:17, 08:19-08:24, 08:26N-08:54, 08:56-08:60	*01:43, 07:101, 07:148, 07:161
13[5]	105 bp	**800 bp**	*08:02:01-08:02:07, 08:05, 08:07, 08:12, 08:17-08:19, 08:23, 08:25, 08:28, 08:30, 08:32-08:35, 08:37, 08:43, 08:45, 08:47-08:48, 08:52N-08:53, 08:55N	*05:01:01:01-05:01:18, 05:03-05:07N, 05:10, 05:12-05:16, 05:18:01-05:26, 05:28-05:51Q, 05:53-05:61, 05:63-05:67, 05:69, 05:71-05:74, 07:41
14[13]	170 bp, 280 bp	1070 bp	*08:08, 08:18	
15[14]	265 bp	1070 bp	*08:13, 08:16:01, 08:25	*05:29
16[5,6,15]	100 bp, 545 bp	1070 bp	*08:14, 08:22, 08:56	*01:21, 02:42, 06:05, 07:02:09, 12:16, 15:29, **B*67:02**
17[16]	375 bp, 430 bp	1070 bp	*08:05, 08:21, 08:25, 08:28	*05:25, 05:42, 05:46
18[5,17]	80 bp, 200 bp	1070 bp	*08:26N, 08:31	
19[5,7,18]	115 bp, 250 bp	**800 bp**	*08:27, 08:29-08:32	*05:08
20[5]	110 bp	1070 bp	*08:35, 08:54	*05:44
21[6]	195 bp	1070 bp	*08:01:01-08:01:05, 08:03:01-08:03:02, 08:06, 08:08-08:11, 08:14, 08:16:01-08:16:02, 08:20-08:22, 08:24, 08:26N-08:27, 08:33:02, 08:35-08:36N, 08:38-08:42, 08:44, 08:46, 08:50, 08:54, 08:56, 08:58-08:60	*01:02:06, 01:04, 01:21, 02:02:05, 02:02:13, 02:05-02:06, 02:10, 02:12, 02:14, 02:16:01, 02:17, 02:27:02, 02:33, 04:01:01:01-04:01:06, 04:01:09-04:01:37, 04:03-04:20, 04:23-04:112, 05:12, 05:18:01, 06:02:01:01-06:02:01:02, 06:02:03-06:15, 06:17-06:40, 06:42-06:61, 06:63-06:76, 12:02:01-12:03:15, 12:03:18-

				12:13, 12:14:02-12:31, 12:33-12:76, 14:02:01-14:02:04, 14:02:06-14:16, 14:18-14:37, 15:02:01-15:02:04, 15:02:06-15:05:05, 15:06:01-15:06:02, 15:07-15:13, 15:15-15:60, 16:01:01-16:02:02, 16:02:04-16:02:09, 16:04, 16:06-16:26, 16:28-16:45, 17:01:01:01-17:05, 17:07-17:11, 18:01-18:05
22[5,19]	80 bp, 155 bp	1070 bp	*08:33:01, 08:41	*05:18:02-05:18:03, 05:27, 05:39, 07:04:01-07:04:07, 07:11-07:12, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199, **B*14:32, B*44:148**
23[5]	95 bp	1070 bp	*08:36N	
24[5]	100 bp, 145 bp	1070 bp	*08:37, 08:56	*02:14, 04:42, 05:43, 06:05, 07:02:09, 12:16, 15:23, 16:21
25[5]	115 bp	1070 bp	*08:39	*05:12, **A*29:10, B*44:148**
26[5]	125 bp	1070 bp	*08:42	
27[5]	100 bp	1070 bp	*08:43	
28[7]	185 bp, 285 bp	1070 bp	*08:02:07, 08:33:02, 08:44	*05:10, **B*44:148**
29[7]	205 bp	1070 bp	*08:38, 08:52N	
30	405 bp, 470 bp	1070 bp	*08:20, 08:28, 08:40	*05:25, 05:42, 06:73, 07:41, **A*01:01:06**
31	500 bp	1070 bp	*08:02:06, 08:19	*05:64
32[5]	125 bp, 265 bp	1070 bp	*08:19, 08:55N	*05:64

[1]Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-C*08 SSP subtypings.
When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.
Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.
PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.
PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.
Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

Lot No.: 84N **Lot-specific information**

[2]The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.
Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-C*08 SSP subtyping.
In addition, wells number 3, 6, 10 to 13 and 19 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band.
In the presence of a specific amplification the intensity of the control band often decreases.
[3]For several HLA-C*08 alleles 4th, 5th and 6th exon or 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 the 4th, 5th and 6th exon or in introns are conserved within allelic groups.
[4]Due to the sharing of sequence motifs between HLA-C alleles non-HLA-C*08 alleles will be amplified by primer mixes 1, 3, 5 to 8, 11 to 13, 15 to 17, 19 to 22, 24, 25, 28 and 30 to 32. In addition, primer mix 1 will amplify the B*58:02 allele, primer mixes 3, 11 and 22 will amplify the B*14:32 allele, primer mix 5 will amplify the B*15:33 allele, primer mix 16 will amplify the B*67:02 allele, primer mixes 22, 25 and 28 will amplify the B*44:148 allele, primer mix 25 will amplify the A*29:10 allele and primer mix 30 will amplify the A*01:01:06 allele .
[5]Short specific PCR fragments are less intense and not as sharp as longer specific bands.
[6]Primer mixes 11, 16 and 21 have a tendency of giving rise to non-specific amplifications.
[7]Primer mixes 19, 28 and 29 may give rise to primer oligomer formation.
[8]Primer mix 6: Specific PCR fragment of 270 bp in the C*08:06 and the C*16:33 alleles. Specific PCR fragment of 310 bp in the C*08:23 allele.
[9]Primer mix 8: Specific PCR fragment of 225 bp in the C*08:09, 08:11 and 08:59 and in the C*05:04 and 07:68 alleles. Specific PCR fragment of 290 bp in the C*08:34 allele.
[10]Primer mix 9: Specific PCR fragment of 385 bp in the C*08:24 allele. Specific PCR fragment of 505 bp in the C*08:10 allele.
[11]Primer mix 10: Specific PCR fragment of 110 bp in the C*08:09 allele. Specific PCR fragment of 140 bp in the C*08:17 allele.
[13]Primer mix 14: Specific PCR fragment of 170 bp in the C*08:18 allele. Specific PCR fragment of 280 bp in the C*08:08 allele.
[15]Primer mix 16: Specific PCR fragment of 100 bp in the C*08:14 and the C*01:21, 02.42, 06:05, 07:02:09 and 12:16 and in the B*67:02 allele. Specific PCR fragment of 545 bp in the C*08:22 and 08:56 and the C*15:29 alleles.
[16]Primer mix 17: Specific PCR fragment of 375 bp in the C*08:05, 08:21 and 08:25 and the C*05:46 alleles. Specific PCR fragment of 430 bp in the C*08:28 and C*05:25 alleles. Specific PCR fragment of 375 and 430 bp in the C*05:42 allele.
[17]Primer mix 18: Specific PCR fragment of 80 bp in the C*08:31 allele. Specific PCR fragment of 200 bp in the C*08:26N allele.
[18]Primer mix 19: Specific PCR fragment of 115 bp in the C*08:27 and 08:29-08:31 and the C*05:08 alleles. Specific PCR fragment of 250 bp in the C*08:32 allele.
[19]Primer mix 22: Specific PCR fragment of 80 bp in the C*08:41 and the C*05:27 and 05:39 alleles. Specific PCR fragment of 155 bp in the C*08:33:01 and the C*05:18:02-05:18:03, 07:04:01-07:04:07, 07:11-07:12, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181 and 07:199 and the B*14:32 alleles. Specific PCR fragments of 80 and 155 bp in the B*44:148 allele.
[19]Primer mix 24: Specific PCR fragment of 100 bp in the C *08:56 allele. Specific PCR fragment of 145 bp in the C*08:37 and the C*02:14, 04:42, 05:43, 06:05, 07:02:09, 12:16, 15:23 and 16:21 alleles.
[19]Primer mix 28: Specific PCR fragment of 185 bp in the C*08:02:07 and 08:33:02 alleles. Specific PCR fragment of 285 bp in the C*08:44 and the C*05:10 and the B*44:148 alleles.
[19]Primer mix 30: Specific PCR fragment of 405 bp in the C*08:28 and the C*05:25, 05:42 and 07:41 and the A*01:01:06 alleles. Specific PCR fragment of 470 bp in the C*08:20 and 08:40 and the C*06:73 alleles.
[19]Primer mix 32: Specific PCR fragment of 125 bp in the C*08:19 and the C*05:64 alleles. Specific PCR fragment of 265 bp in the C*08:55N allele.

101.623-12 – including *Taq* pol., IFU-01 Rev. No. 03
101.623-12u– without *Taq* pol., IFU-02 Rev. No. 03

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Lot No.: 84N **Lot-specific information**

INTERPRETATION TABLE

HLA-C*08 SSP subtyping

Amplification patterns of the HLA-C*08:01 to 08:60 alleles

	Well[7]															
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Length of spec.	250	115	115	110	155	270	100	225	385	110	280	165	105	170	265	100
PCR product(s)						310		290	505	140				280		545
Length of int.	800	1070	800	1070	1070	800	1070	1070	1070	800	800	800	800	1070	1070	1070
pos. control[1]																
5'-primer[2]	2nd	527	527	527	176	2nd	453	351	312	176	361	176	539	173	1st	142
	5'-CCA 3'	5'-TAC 3'	5'-TgA 3'	5'-TAC 3'	5'-gCA 3'	5'-CCA 3'	5'-AAT 3'	5'-CAA 3'	5'-AAA 3'	5'-gCA 3'	5'-AgT 3'	5'-gCA 3'	5'-gCg 3'	5'-CgC 3'	5'-CgA 3'	5'-TCT 3'
					485			419	736	527				363		972
					5'-CAA 3'			5'-gTC 3'	5'-gCA 3'	5'-TAC 3'				5'-AgC 3'		5'-CTA 3'
3'-primer[3]	539	601	601	595	289	559	512	601	526	277	601	302	601	302	175	201
	5'-TCA 3'	5'-CTT 3'	5'-CTT 3'	5'-CCT 3'	5'-AgC 3'	5'-CgC 3'	5'-CCA 3'	5'-CTT 3'	5'-CgT 3'	5'-gCA 3'	5'-CTT 3'	5'-ggC 3'	5'-CTT 3'	5'-ggC 3'	5'-CCg 3'	5'-CTT 3'
					289	599			956	598				601		1034
					5'-AgC 3'	5'-TCC 3'			5'-CAg 3'	5'-CTC 3'				5'-CTT 3'		5'-AgT 3'
					601											
					5'-CTC 3'											
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
HLA-C allele[4]																
***08:01:01-**08:01:05, 08:46, 08:50, 08:58, 08:60	**1**	**2**										**12**				
***08:02:01-**08:02:05, 08:45, 08:48, 08:53			**3**									**12**	**13**			
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**

101.623-12 – including *Taq* pol., IFU-01 Rev. No. 03
101.623-12u– without *Taq* pol., IFU-02 Rev. No. 03

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Lot No.: 84N **Lot-specific information**

INTERPRETATION TABLE

HLA-C*08 SSP subtyping

Amplification patterns of the HLA-C*08:01 to 08:60 alleles

Well[7]																
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
375	80	115	110	195	80	95	100	115	125	100	185	205	405	500	125	Length of spec.
430	200	250			155		145				285		470		265	PCR product(s)
1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	Length of int.
																pos. control[1]
1st I	441	391	527	2nd I	486	246	97	527	2nd I	527	355	368	341	176	1st I	5'-primer[2]
5'-CgA 3'	5'-TAg 3'	5'-ACT 3'	5'-TgA 3'	5'-CCA 3'	5'-ACC 3'	5'-CAg 3'	5'-TCg 3'	5'-TgT 3'	5'-CCA 3'	5'-TgA 3'	5'-TCA 3'	5'-gTC 3'	5'-ggA 3'	5'-gCA 3'	5'-CgA 3'	
	560	520			560		527				459	679	652		368	
	5'-CgA 3'	5'-CgC 3'			5'-CCT 3'		5'-TAC 3'				5'-gAT 3'	5'-g.T 3'	5'-CCA 3'		5'-gTT 3'	
		539														
		5'-gTg 3'														
289	601	601	595	485	601	302	201	601	412	584	601	526	453	387	175	3'-primer[3]
5'-AgC 3'	5'-CTT 3'	5'-CTT 3'	5'-CCT 3'	5'-CCg 3'	5'-CTT 3'	5'-ggC 3'	5'-CTT 3'	5'-CTT 3'	5'-CTT 3'	5'-ggC 3'	5'-CTT 3'	5'-CgT 3'	5'-TCA 3'	5'-TCC 3'	5'-CTA 3'	
341							587					846	956		453	
5'-CgT 3'							5'-CCg 3'					5'-CAC 3'	5'-CAg 3'		5'-TCA 3'	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																HLA-C allele[4]
				21												***08:01:01*-**08:01:05, 08:46, 08:50, 08:58, 08:60
																***08:02:01*-**08:02:05, 08:45, 08:48, 08:53
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.623-12 – including *Taq* pol., IFU-01 Rev. No. 03
101.623-12u– without *Taq* pol., IFU-02 Rev. No. 03

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

Lot No.: 84N **Lot-specific information**

Length of spec.	250	115	115	110	155	270	100	225	385	110	280	165	105	170	265	100
PCR product(s)						310		290	505	140				280		545
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
*08:02:06			**3**									**12**	**13**			
*08:02:07			**3**									**12**	**13**			
***08:03:01**-08:03:02	**1**	**2**		**4**								**12**				
***08:04:01**-08:04:02	**1**		**3**									**12**				
***08:05**			**3**		**5**							**12**	**13**			
***08:06**	**1**	**2**		**4**		**6**						**12**				
*08:07			**3**				**7**					**12**	**13**			
*08:08	**1**	**2**										**12**		**14**		
*08:09	**1**	**2**						**8**		**10**		**12**				
***08:10**	**1**	**2**							**9**							
***08:11,** 08:59	**1**	**2**						**8**				**12**				
***08:12**			**3**								**11**	**12**	**13**			
*08:13	**1**		**3**												**15**	
*08:14	**1**	**2**		**4**								**12**				**16**
***08:15:01-08:15:02,** 08:51, 07:148, 07:161[5]					**5**							**12**				
*08:16:01	**1**	**2**													**15**	
*08:16:02	**1**	**2**														
*08:17			**3**							**10**		**12**	**13**			
*08:18			**3**										**13**	**14**		
*08:19			**3**									**12**	**13**			
***08:20**	**1**	**2**										**12**				
***08:21**	**1**	**2**			**5**							**12**				
*08:22	**1**	**2**										**12**				**16**
***08:23**			**3**			**6**						**12**	**13**			
*08:24	**1**	**2**							**9**			**12**				
*08:25			**3**										**13**		**15**	
*08:26N	**1**	**2**										**12**				
***08:27**			**3**									**12**				
***08:28**			**3**									**12**	**13**			
***08:29**			**3**									**12**				
***08:30, 08:32**[6]			**3**									**12**	**13**			
*08:31			**3**									**12**				
*08:33:01			**3**									**12**	**13**			
*08:33:02			**3**									**12**	**13**			
***08:34**			**3**					**8**				**12**	**13**			
*08:35			**3**									**12**	**13**			
*08:36N	**1**	**2**										**12**				
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**

Lot No.: 84N **Lot-specific information**

375	80	115	110	195	80	95	100	115	125	100	185	205	405	500	125	**Length of spec.**
430	200	250			155		145				285		470		265	**PCR product(s)**
17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**Well No.**
														31		*08:02:06
											28					*08:02:07
				21												***08:03:01**-08:03:02
																***08:04:01**-08:04:02
17																***08:05**
				21												***08:06**
																*08:07
				21												*08:08
				21												*08:09
				21												***08:10**
				21												***08:11,** 08:59
																***08:12**
																*08:13
				21												*08:14
																***08:15:01-08:15:02,** 08:51, 07:148, 07:161[5]
				21												*08:16:01
				21												*08:16:02
																*08:17
																*08:18
														31	**32**	*08:19
				21									**30**			***08:20**
17				**21**												***08:21**
				21												*08:22
																***08:23**
				21												*08:24
17																*08:25
	18			**21**												*08:26N
		19		**21**												***08:27**
17													**30**			***08:28**
		19														***08:29**
		19														***08:30, 08:32**[6]
	18	**19**														*08:31
					22											*08:33:01
				21							**28**					*08:33:02
																***08:34**
			20	**21**												*08:35
				21		**23**										*08:36N
17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**Well No.**

Lot No.: 84N **Lot-specific information**

Length of spec.	250	115	115	110	155	270	100	225	385	110	280	165	105	170	265	100
PCR product(s)						310		290	505	140				280		545
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
*08:37			**3**									**12**	**13**			
*08:38	**1**	**2**		**4**								**12**				
*08:39	**1**											**12**				
*08:40	**1**	**2**		**4**								**12**				
***08:41**	**1**	**2**										**12**				
*08:42	**1**	**2**										**12**				
***08:43**			**3**									**12**	**13**			
*08:44	**1**	**2**										**12**				
*08:47							**7**					**12**	**13**			
*08:49			**3**									**12**				
*08:52N			**3**									**12**	**13**			
*08:54	**1**		**3**									**12**				
*08:55N			**3**										**13**			
*08:56	**1**	**2**										**12**				**16**
*08:57	**1**											**12**				
*01:02:06, 01:04, 02:02:05, 02:02:13, 02:05-02:06, 02:10, 02:12, 02:17, 02:27:02, 02:33, 04:01:01:01-04:01:06, 04:01:09-04:01:37, 04:03, 04:05, 04:07-04:12, 04:14-04:20, 04:23-04:33, 04:35-04:41, 04:43-04:57, 04:59Q-04:112, 06:02:01:01-06:02:01:02, 06:02:03-06:03:02, 06:06-06:15, 06:17-06:40, 06:42-06:61, 06:63-06:66, 06:68-06:72, 06:74-06:76, 12:02:01-12:03:15, 12:03:18-12:13, 12:15, 12:17, 12:19, 12:21-12:31, 12:33-12:76, 14:02:01-14:02:04, 14:02:06-14:05, 14:07N-14:14, 14:16, 14:18-14:37, 15:08, 15:25, 15:51, 16:01:01-16:02:02, 16:02:04-16:02:09, 16:04, 16:06-16:20, 16:22-16:26, 16:28-16:32, 16:34, 16:36-16:39, 16:41-16:45, 18:01-18:05																
*01:13, 02:51, 03:87, 05:09:01-05:09:02, 05:52, 07:130, 16:27, *B*15:33*					**5**											
*01:21																**16**
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**

Lot No.: 84N **Lot-specific information**

375	80	115	110	195	80	95	100	115	125	100	185	205	405	500	125	**Length of spec.**
430	200	250			155		145				285		470		265	**PCR product(s)**
17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**Well No.**
							24									*08:37
				21								**29**				*08:38
				21				**25**								*08:39
				21									**30**			*08:40
				21	**22**											***08:41**
				21					**26**							*08:42
										27						***08:43**
				21							**28**					*08:44
																*08:47
																*08:49
												29				*08:52N
			20	**21**												*08:54
															32	*08:55N
				21			**24**									*08:56
																*08:57
				21												*01:02:06, 01:04, 02:02:05, 02:02:13, 02:05-02:06, 02:10, 02:12, 02:17, 02:27:02, 02:33, 04:01:01:01-04:01:06, 04:01:09-04:01:37, 04:03, 04:05, 04:07-04:12, 04:14-04:20, 04:23-04:33, 04:35-04:41, 04:43-04:57, 04:59Q-04:112, 06:02:01:01-06:02:01:02, 06:02:03-06:03:02, 06:06-06:15, 06:17-06:40, 06:42-06:61, 06:63-06:66, 06:68-06:72, 06:74-06:76, 12:02:01-12:03:15, 12:03:18-12:13, 12:15, 12:17, 12:19, 12:21-12:31, 12:33-12:76, 14:02:01-14:02:04, 14:02:06-14:05, 14:07N-14:14, 14:16, 14:18-14:37, 15:08, 15:25, 15:51, 16:01:01-16:02:02, 16:02:04-16:02:09, 16:04, 16:06-16:20, 16:22-16:26, 16:28-16:32, 16:34, 16:36-16:39, 16:41-16:45, 18:01-18:05
																*01:13, 02:51, 03:87, 05:09:01-05:09:02, 05:52, 07:130, 16:27, *B*15:33*
				21												*01:21
17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**Well No.**

Lot No.: 84N **Lot-specific information**

Length of spec.	250	115	115	110	155	270	100	225	385	110	280	165	105	170	265	100
PCR product(s)						310		290	505	140				280		545
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
*01:22, 01:35, 02:03, 02:16:02, 02:18, 05:68, 12:14:01, 15:02:05, 15:05:06, 15:06:03, 17:06, *B*58:02*	**1**															
*01:43												**12**				
*02:14, 04:42, 16:21																
*02:16:01, 04:04:01-04:04:02, 04:06, 04:13, 04:34, 04:58, 06:04, 12:14:02, 12:18:01-12:18:02, 12:20, 14:06, 14:15, 15:02:01-15:02:04, 15:02:06-15:05:05, 15:06:01-15:06:02, 15:07, 15:09-15:13, 15:15-15:22, 15:24, 15:26-15:28, 15:30-15:50, 15:52-15:60, 16:35, 16:40, 17:01:01:01-17:04, 17:07-17:11	**1**															
*02:42, *B*67:02																**16**
*05:01:01:01-05:01:18, 05:03, 05:05-05:07N, 05:13-05:15, 05:19-05:22:02, 05:24, 05:26, 05:28, 05:30-05:38, 05:40-05:41, 05:45, 05:47-05:51Q, 05:53-05:61, 05:63, 05:65-05:67, 05:69, 05:71-05:74			**3**										**13**			
*05:04			**3**					**8**					**13**			
*05:08			**3**													
*05:10			**3**										**13**			
*05:11	**1**		**3**													
*05:12													**13**			
*05:16			**3**								**11**		**13**			
*05:17	**1**				**5**											
*05:18:01			**3**										**13**			
*05:18:02-05:18:03, 05:39			**3**										**13**			
*05:23			**3**				**7**						**13**			
*05:25			**3**										**13**			
*05:27	**1**		**3**													
*05:29			**3**										**13**		**15**	
*05:42			**3**		**5**								**13**			
*05:43			**3**										**13**			
*05:44			**3**										**13**			
*05:46			**3**		**5**								**13**			
*05:62							**7**									
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**

Lot No.: 84N **Lot-specific information**

375	80	115	110	195	80	95	100	115	125	100	185	205	405	500	125	**Length of spec.**
430	200	250			155		145				285		470		265	**PCR product(s)**
17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**Well No.**
																*01:22, 01:35, 02:03, 02:16:02, 02:18, 05:68, 12:14:01, 15:02:05, 15:05:06, 15:06:03, 17:06, *B*58:02*
																*01:43
				21			**24**									*02:14, 04:42, 16:21
				21												*02:16:01, 04:04:01-04:04:02, 04:06, 04:13, 04:34, 04:58, 06:04, 12:14:02, 12:18:01-12:18:02, 12:20, 14:06, 14:15, 15:02:01-15:02:04, 15:02:06-15:05:05, 15:06:01-15:06:02, 15:07, 15:09-15:13, 15:15-15:22, 15:24, 15:26-15:28, 15:30-15:50, 15:52-15:60, 16:35, 16:40, 17:01:01:01-17:04, 17:07-17:11
																*02:42, *B*67:02*
																*05:01:01:01-05:01:18, 05:03, 05:05-05:07N, 05:13-05:15, 05:19-05:22:02, 05:24, 05:26, 05:28, 05:30-05:38, 05:40-05:41, 05:45, 05:47-05:51Q, 05:53-05:61, 05:63, 05:65-05:67, 05:69, 05:71-05:74
																*05:04
		19														*05:08
											28					*05:10
																*05:11
				21				**25**								*05:12
																*05:16
																*05:17
				21												*05:18:01
					22											*05:18:02-05:18:03, 05:39
																*05:23
17													**30**			*05:25
					22											*05:27
																*05:29
17													**30**			*05:42
							24									*05:43
			20													*05:44
17																*05:46
																*05:62
17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**Well No.**

Lot No.: 84N **Lot-specific information**

Length of spec.	250	115	115	110	155	270	100	225	385	110	280	165	105	170	265	100
PCR product(s)						310		290	505	140				280		545
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
*05:64			**3**										**13**			
*05:70			**3**													
*06:05, 12:16																**16**
*06:67					**5**											
*06:73																
*07:02:09																**16**
*07:04:01-07:04:07, 07:11-07:12, 07:63, 07:139, 07:142, 07:181, 07:199																
*07:41			**3**										**13**			
*07:68								**8**								
*07:101					**5**							**12**				
*15:23	**1**															
*15:29	**1**															**16**
*16:33						**6**										
*17:05	**1**				**5**											
*A*01:01:06*																
*A*29:10*																
*B*14:32*			**3**								**11**					
*B*44:148*																
HLA-C allele																
Well No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**

[1]The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.
Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-C*08 SSP subtyping.
In addition, wells number 3, 6, 10 to 13 and 19 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band.
[2]The nucleotide position, in the 2nd, 3rd or 4th exon or the 1st or 2nd intron, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site.The sequence of the 3 terminal nucleotides of the primer is given.
[3]The nucleotide position, in the 2nd, 3rd, 5th or 6th exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. The sequence of the 3 terminal nucleotides of the primer is given.
[4]HLA-C*08 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.8.0, April 2012.
[5]The HLA-C*08 subtyping kit cannot separate the C*08:15:01-08:15:02 and 08:51 alleles from the C*07:148 and 07:161 alleles. The C*08 and C*07 alleles can be distinguished by the HLA-C low resolution and/or HLA-C*07 kits.
[6]The C*08:30 and C*08:32 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 19.

Lot No.: 84N **Lot-specific information**

375	80	115	110	195	80	95	100	115	125	100	185	205	405	500	125	**Length of spec.**
430	200	250			155		145				285		470		265	**PCR product(s)**
17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**Well No.**
														31	**32**	*05:64
																*05:70
				21			**24**									*06:05, 12:16
				21												*06:67
				21									**30**			*06:73
							24									*07:02:09
					22											*07:04:01-07:04:07, 07:11-07:12, 07:63, 07:139, 07:142, 07:181, 07:199
													30			*07:41
					22											*07:68
					22											*07:101
				21			**24**									*15:23
				21												*15:29
				21												*16:33
				21												*17:05
													30			*A*01:01:06*
								25								*A*29:10*
					22											*B*14:32*
					22			**25**			**28**					*B*44:148*
																HLA-C allele
17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**Well No.**

[7]Primer mix 6: Specific PCR fragment of 270 bp in the C*08:06 and the C*16:33 alleles. Specific PCR fragment of 310 bp in the C*08:23 allele.
Primer mix 8: Specific PCR fragment of 225 bp in the C*08:09, 08:11 and 08:59 and in the C*05:04 and 07:68 alleles. Specific PCR fragment of 290 bp in the C*08:34 allele.
Primer mix 9: Specific PCR fragment of 385 bp in the C*08:24 allele. Specific PCR fragment of 505 bp in the C*08:10 allele.
Primer mix 10: Specific PCR fragment of 110 bp in the C*08:09 allele. Specific PCR fragment of 140 bp in the C*08:17 allele.
Primer mix 14: Specific PCR fragment of 170 bp in the C*08:18 allele. Specific PCR fragment of 280 bp in the C*08:08 allele.
Primer mix 16: Specific PCR fragment of 100 bp in the C*08:14 and the C*01:21, 02.42, 06:05, 07:02:09 and 12:16 and in the B*67:02 allele. Specific PCR fragment of 545 bp in the C*08:22 and 08:56 and the C*15:29 alleles.
Primer mix 17: Specific PCR fragment of 375 bp in the C*08:05, 08:21 and 08:25 and the C*05:46 alleles. Specific PCR fragment of 430 bp in the C*08:28 and C*05:25 alleles. Specific PCR fragment of 375 and 430 bp in the C*05:42 allele.
Primer mix 18: Specific PCR fragment of 80 bp in the C*08:31 allele. Specific PCR fragment of 200 bp in the C*08:26N allele.
Primer mix 19: Specific PCR fragment of 115 bp in the C*08:27 and 08:29-08:31 and the C*05:08 alleles. Specific PCR fragment of 250 bp in the C*08:32 allele.
Primer mix 22: Specific PCR fragment of 80 bp in the C*08:41 and the C*05:27 and 05:39 alleles. Specific PCR fragment of 155 bp in the C*08:33:01 and the C*05:18:02-05:18:03,

Lot No.: 84N **Lot-specific information**

07:04:01-07:04:07, 07:11-07:12, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181 and 07:199 and the B*14:32 alleles. Specific PCR fragments of 80 and 155 bp in the B*44:148 allele.

Primer mix 24: Specific PCR fragment of 100 bp in the C *08:56 allele. Specific PCR fragment of 145 bp in the C*08:37 and the C*02:14, 04:42, 05:43, 06:05, 07:02:09, 12:16, 15:23 and 16:21 alleles.

Primer mix 28: Specific PCR fragment of 185 bp in the C*08:02:07 and 08:33:02 alleles. Specific PCR fragment of 285 bp in the C*08:44 and the C*05:10 and the B*44:148 alleles.

Primer mix 30: Specific PCR fragment of 405 bp in the C*08:28 and the C*05:25, 05:42 and 07:41 and the A*01:01:06 alleles. Specific PCR fragment of 470 bp in the C*08:20 and 08:40 and the C*06:73 alleles.

Primer mix 32: Specific PCR fragment of 125 bp in the C*08:19 and the C*05:64 alleles. Specific PCR fragment of 265 bp in the C*08:55N allele.

101.623-12 – including *Taq* pol., IFU-01 Rev. No. 03
101.623-12u– without *Taq* pol., IFU-02 Rev. No. 03

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

Lot No.: 84N **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-C*08 SSP primer set

					Well													
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	201075801	201075802	201075803	201075804	201075805	201075806	201075807	201075808	201189809	201075810	201202511	201075812	201075813	201075814	201202515	201202516
	IHWC cell line		C*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*07:01	*15:05	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*05:01		-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
8	9007	DEM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*01:02	*15:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*08:02		-	-	+	-	-	-	-	-	-	-	-	+	+	-	-	-
26	9285	WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:05	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*05:01	*16:01	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*17:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*05:01		-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
32	9297	HAG	*17:01	*17:03	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*05:01		-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
36	9024	KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*08:02		-	-	+	-	-	-	-	-	-	-	-	+	+	-	-	-
42	9066	TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*01:02	*08:01	+	+	-	-	-	-	-	-	-	-	-	+	-	-	-	-
44	9057	TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*06:02	*17:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*07:04	*15:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.623-12 – including *Taq* pol., IFU-01 Rev. No. 03
101.623-12u– without *Taq* pol., IFU-02 Rev. No. 03

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Lot No.: 84N **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-C*08 SSP primer set

					Well															
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				Prod. No.:	201075817	201075818	201075819	201075820	201075821	201189822	201075823	201202524	201189825	201189826	201189827	201202528	201202529	201202530	201202531	201202532
	IHWC cell line		C*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*07:01	*15:05	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*12:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:04	*04:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*06:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9007	DEM	*04:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*12:03		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*16:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*06:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*12:03		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*01:02	*15:02	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*12:03		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:05	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*16:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*17:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*17:01	*17:03	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*12:03		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*03:03	*04:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*01:02	*06:02	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*01:02	*08:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*12:03		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*06:02	*17:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*07:04	*15:02	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-

Lot No.: 84N **Lot-specific information**

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-C*08 SSP

Product number: **101.623-12 – including *Taq* polymerase**
101.623-12u – without *Taq* polymerase
Lot number: **84N**
Expiry date: **2014-November-01**
Number of tests: **12**
Number of wells per test: **32**

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-758-01	13	2010-758-13	25	2011-898-25
2	2010-758-02	14	2010-758-14	26	2011-898-26
3	2010-758-03	15	2012-025-15	27	2011-898-27
4	2010-758-04	16	2012-025-16	28	2012-025-28
5	2010-758-05	17	2010-758-17	29	2012-025-29
6	2010-758-06	18	2010-758-18	30	2012-025-30
7	2010-758-07	19	2010-758-19	31	2012-025-31
8	2010-758-08	20	2010-758-20	32	2012-025-32
9	2011-898-09	21	2010-758-21		
10	2010-758-10	22	2011-898-22		
11	2012-025-11	23	2010-758-23		
12	2010-758-12	24	2012-025-24		

The specificity of each primer solution of the HLA-C*08 primer set has been tested against 48 well characterized cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 5 to 11, 14, 15, 17 to 20 and 23 to 32 were available.
The specificity of the primers in primer solutions 5, 7 to 9, 11, 14, 15, 17 to 20, 24, 25, 28 to 32 were tested by adding additional 5'-primers respectively 3'-primers. In primer solutions 6, 10, 26 and 27 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 23 it was only possible to test the 3'-primer, the 5'-primer was not possible to test. In primer solution 8, 9, 14, 18, 19, 29 and 30, one or two 5'-primers were not possible to test. In primer solution 24 and 32, one or two 3'-primers were not possible to test.
In primer solution 16, one additional 5'-primer and one additional 3'-primer were tested by separately adding one 3'-primer respective one 5'-primer. In primer solution 22, one additional 5'-primer was tested by separately adding one 3'-primer.

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

Lot No.: 84N **Lot-specific information**

Date of approval: 2012-June-11

Approved by:

Production Quality Control

Lot No.: 84N **Lot-specific information**

Declaration of Conformity

Product name: *Olerup* SSP® HLA-C*08
Product number: 101.623-12/12u
Lot number: 84N

Intended use: HLA-C*08 high resolution histocompatibility testing

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

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

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

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

Stockholm, Sweden
2012-June-11

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.623-12 – including *Taq* pol., IFU-01 Rev. No. 03
101.623-12u– without *Taq* pol., IFU-02 Rev. No. 03

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

Lot No.: 84N **Lot-specific information**

101.623-12 – including *Taq* pol., IFU-01 Rev. No. 03
101.623-12u– without *Taq* pol., IFU-02 Rev. No. 03

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

Lot No.: 84N **Lot-specific information**

Lot No.: 84N **Lot-specific information**

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