

101.614-12 – including *Taq* pol., IFU-01
101.614-12u – without *Taq* pol., IFU-02

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

Lot No.: **75V**

Lot-specific information
Olerup SSP® HLA-C*06

Product number:	101.614-12 – including <i>Taq</i> polymerase 101.614-12u – without <i>Taq</i> polymerase
Lot number:	75V
Expiry date:	2016-November-01
Number of tests:	12
Number of wells per test:	47+1
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C0
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 75V.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP®
HLA-C*06 LOT (07S)**

The HLA-C*06 kit is updated for new alleles to enable separation of:

- Confirmed¹ alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

A well containing Negative Control primer pairs has been added.

The format of the Product Insert and Worksheet have been changed.

One well has been added to HLA-C*06, well **48**.

¹As described in section Uniquely Identified Alleles.

The HLA-C*06 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP®* HLA-C*06 lot was made (Lot No. 07S).

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As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

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

Well	5'-primer	3'-primer	rationale
6	-	Added	3'-primer added for the C*06:96 allele.
9	Added	-	5'-primer added for the C*06:103 allele.
12	Removed	-	5'-primer has been removed.
15	Added	-	5'-primer added for the C*06:116N allele.
17	-	-	Exchanged positive control primer pair for decreased tendency of primer oligomer formation.
21	Added	-	5'-primer added for the C*06:72 allele.
24	Added	-	5'-primer added for the C*06:103 allele.
25	-	Added	3'-primer added for the C*06:118 allele.
28	Added	-	5'-primer added for the C*06:123 allele.
29	Added	-	5'-primer added for the C*06:43:02 allele.
31	Added	Added	Primer pair added for the C*06:111 allele.
33	-	Added	3'-primer added for the C*06:93 allele.
34	Added	-	5'-primer added for the C*06:74Q allele.
35	-	Added	3'-primer added for the C*06:93 allele.
36	-	Added	3'-primer added from well 46.
37	Added	-	5'-primer added for the C*06:101 allele.
39	-	Added	3'-primer added for the C*06:96 allele.
44	Added	Added	Primer pair added for the C*06:100 allele.
46	Moved, added	Moved, added	Primer pair moved to well 36, Primer pair added for the allelic resolution of C*06:76:01 and C*06:76:02 alleles.
48	-	-	Negative Control.

Changes in revision R01 compared to R00:

1. Primer mix 14 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C*06 resolution primer mixes in the C*03 alleles. A foot note has been added in the Specificity Table.

Change in revision R02 compared to R01:

1. Primer mixes 4 and 6 do not amplify the B*58:02 allele. This has been corrected in the Specificity and Interpretation Tables.

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Well **48** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP® HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.
The PCR product generated by the positive control primer pair is 430 base pairs.

Length of PCR product	105	200	105	80	75	80	85
5'-primer¹	164	340	440	45	45	43	36
	5'-CAC ^{3'}	5'-Agg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-TAC ^{3'}
							36
							5'-TAT ^{3'}
3'-primer²	231	2nd I	507	59	58	57	47
	5'-TgC ^{3'}	5'-AAA ^{3'}	5'-TTg ^{3'}	5'-CTC ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}	5'-ACA ^{3'}
							48
							5'-gCA ^{3'}
							48
							5'-gCC ^{3'}
							52
							5'-TgT ^{3'}
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

¹The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

²The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

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Lot-specific information

PRODUCT DESCRIPTION

HLA-C*06 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C*06:02 to HLA-C*06:123 alleles.

PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 well PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	47	45	46	47	NC

The 48 well cut PCR plate is marked with 'HLA-C*06' in silver/gray ink.

Well No. 1 is marked with the Lot No. '75V'.

Wells 1 to 47 – HLA-C*06 high resolution primers.

Well 48 – Negative Control (NC).

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 48 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

Due to the sharing of sequence motifs between HLA-C alleles, non-HLA-C*06 alleles will be amplified by primer mixes 1 to 6, 8 to 11, 14, 17, 19 to 25, 27 to 30, 34, 36 to 39, 41, 43 and 46. In addition, a few HLA-A and HLA-B alleles will be amplified by primer 4, 6, 8 to 11, 14, 19, 24, 27, 29, 37, 39, 41, 44 and 46.

For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*06 alleles, i.e. **C*06:02 to C*06:123**, recognized by the HLA Nomenclature Committee in January 2014¹ will be amplified by the primers in the HLA-C*06 SSP kit^{2,3}.

The HLA-C*06 kit enables separation of the confirmed HLA-C*06 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*06 alleles is listed below.

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The HLA-C*06 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 following HLA-C*06 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*06:07, 06:33	7	C*06:27, 06:29	20
C*06:15, C06:116N	15	C*06:45, 06:111	31
C*06:16N, 06:21	16	C*06:46N, 06:65	35
C*06:20, 06:74Q	34	C*06:57, 06:58	36
C*06:24, 06:37	17	C*06:60, 06:69	33
C*06:25, 06:36	21	C*06:70, 06:73	38

The HLA-C*06 primer set cannot distinguish the silent mutations in the C*06:02:01:01-06:02:01:03, C*06:02:03-06:02:36, the C*06:43:01-06:43:02 or the C*06:53:01-06:53:02 alleles.

¹HLA-C alleles listed on the IMGT/HLA web page 2014-January-17, release 3.15.0, www.ebi.ac.uk/imgt/hla.

²Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

³The HLA-C*06 primer set cannot separate the C*06:09 and C*06:103 alleles. These alleles can be distinguished by the HLA-C low resolution kit.

The HLA-C*06 primer set cannot separate the C*06:76:02 and C*12:28, 12:58, 12:63 and 12:108 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or HLA-C*12 high resolution kit.

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ALLELE CONFIRMATION STATUS

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

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2014-January-17, release 3.15.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-C*06 homo- and heterozygotes is available upon request.



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Lot-specific information
SPECIFICITY TABLE

HLA-C*06 SSP subtyping

Specificities and sizes of the PCR products of the 47+1 primer mixes used for HLA-C*06 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*06 alleles ³	Other amplified HLA Class I alleles ⁴
1	240 bp	800 bp	*06:02:01:01-06:02:01:03, 06:02:03-06:02:36, 06:04-06:16N, 06:18-06:75, 06:78-06:123	*03:39, 03:67, 04:42, 05:43, 08:37, 12:16, 16:21, 17:20 [?]
2	220 bp	800 bp	*06:02:01:01-06:02:01:03, 06:02:03-06:03:02, 06:07-06:13, 06:15-06:34, 06:36-06:39, 06:41-06:71, 06:73-06:78, 06:80, 06:82-06:100, 06:102-06:117, 06:119-06:122	*01:04, 01:09, 02:05:01-02:05:03, 02:17, 12:03:01:01-12:07, 12:11-12:13, 12:15, 12:23, 12:25-12:26, 12:28-12:29, 12:31-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:50-12:55, 12:57-12:63, 12:65-12:66, 12:70-12:71, 12:75-12:79, 12:81-12:82, 12:87-12:95, 12:97-12:102, 12:107-12:111, 12:113, 12:115, 14:16, 16:04:01, 16:29, 16:33, 16:42, 16:55, 16:61
3	135 bp	1070 bp	*06:03:01, 06:18	*02:02:13, 03:02:01-03:02:09, 03:02:11-03:03:20, 03:03:22-03:04:14, 03:04:16-03:04:24, 03:04:27-03:11:02, 03:13:01-03:17, 03:19-03:38:02, 03:40:01-03:64:01, 03:65-03:66, 03:67 ^w , 03:68-03:98, 03:100-03:117, 03:119-03:136, 03:138-03:143, 03:146-03:155, 03:157-03:165, 03:167-03:169Q, 03:171, 03:173-03:181, 03:183-03:194, 03:196-03:230, 03:232-03:236, 07:96:01-07:96:02, 07:272, 07:326, 15:02:10, 15:02:17, 15:43
4	250 bp	1070 bp	*06:04	*01:22, 01:35, 05:11, 05:17, 05:27, 05:68, 05:79, 08:01:01-08:01:13, 08:03:01-08:04:03, 08:06, 08:08:01-08:11, 08:13-08:14, 08:16:01-08:16:02, 08:20-08:22, 08:24, 08:26N, 08:36N, 08:38-08:42, 08:44, 08:46, 08:50, 08:54, 08:56-08:61, 08:65-08:66, 08:72:01-08:72:02, 08:78-08:89N, 08:91, 08:93, 08:95-08:97, 08:99, 08:101-08:102, 12:14:01-12:14:02, 12:18:01-12:18:02, 12:20, 12:83, 14:06, 14:15, 14:53, 15:02:01-15:07, 15:09-15:13, 15:15-15:19, 15:21-15:24, 15:26-15:50, 15:52-15:73, 15:76-15:83, 16:35, 16:40, 16:48, 17:01:01:01-17:16, 17:18-17:23
5	165 bp	800 bp	*06:05, 06:67	*04:129, 05:01:01:01-05:01:27, 05:03-05:28, 05:30-05:47, 05:49-05:91N, 05:93-05:99N, 08:10, 12:21, 12:33, 17:05
6	220 bp 260 bp	1070 bp	*06:18, 06:23 *06:05-06:06, 06:96	*01:04, 01:09, 02:21 *01:02:01-01:03, 01:05-01:08, 01:10-01:20, 01:23-01:90, 04:110 [?] , 05:01:01:01-05:01:27, 05:03-05:07N, 05:09:01-05:10, 05:12-05:16,

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				05:18:01-05:50, 05:53-05:61, 05:63-05:67, 05:69, 05:71-05:78, 05:80-05:88, 05:90-05:99N, 08:02:01:01-08:02:10, 08:05, 08:07, 08:12, 08:15:01-08:15:02, 08:17-08:19, 08:23, 08:25, 08:28, 08:30, 08:32-08:35, 08:37, 08:41, 08:43, 08:45, 08:47-08:49, 08:51-08:53, 08:55N, 08:62-08:63, 08:67-08:71, 08:73-08:77, 08:90, 08:92, 08:94, 08:100, 12:09, 12:24, 12:83, 12:85, 12:106, 14:02:01-14:05, 14:07N-14:14, 14:17-14:52, 14:54-14:61, 15:08, 15:15, 15:77, 16:53, 17:07, 17:17, 18:01-18:02, 18:04-18:07N
7⁵	110 bp 185 bp 235 bp	1070 bp	*06:07 *06:19 *06:33	
8	240 bp	1070 bp	*06:08	*01:10, 02:05:01-02:05:03, 02:17, 14:25, 16:29, 16:50, 17:21, B*40:243
9	160 bp 210 bp 435 bp	1070 bp	*06:09, 06:103 *06:23 *06:17	*02:22, 04:94:01-04:94:02, 05:08, 05:52, 05:89, 08:27, 08:29, 08:31, 12:31, 18:03, B*15:137 *01:04, 01:09 *07:07, 07:09, 07:76:01, 07:315, 07:328, 18:01-18:07N
10	190 bp	800 bp	*06:10, 06:22	*07:107, 07:224, 16:31, B*15:193
11	130 bp	1070 bp	*06:11, 06:122 ^w	*07:01:13, 07:04:01-07:04:09, 07:11-07:12, 07:45, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:272, 07:302, 07:323-07:324, 07:329N, 07:338, 12:02:11, 12:03:09 *07:107, 07:224, 16:31, B*15:193
12	185 bp 205 bp	1070 bp	*06:22 *06:12	
13	155 bp 210 bp	1070 bp	*06:13 *06:59	
14⁹	225 bp 305 bp	1070 bp	*06:55 *06:14	*03:32, 03:45, 03:136, 04:80, 04:100, 07:43, 07:196, 15:25, 15:62, B*35:178
15	135 bp 360 bp	800 bp	*06:116N *06:15	
16⁶	235 bp 340 bp	1070 bp	*06:16N *06:21	
17⁶	160 bp 220 bp	800 bp	*06:37 *06:24, 06:59	*01:20
18	220 bp	1070 bp	*06:26	
19⁵	85 bp	800 bp	*06:28	*02:14, 03:67, 04:42, 05:43, 07:20, 07:73, 07:172:01-07:172:02, 08:37, 15:23, 16:21, 17:20, 18:04, B*08:56:01-08:56:02, B*15:142, B*35:218, B*51:68, B*57:49
20⁵	160 bp 115 bp 275 bp	1070 bp	*06:32 *06:29 *06:27	*07:134 *16:47
21	190 bp 215 bp 380 bp	1070 bp	*06:36 *06:72 *06:25	*12:56 *04:81
22⁷	170 bp	1070 bp	*06:30	*02:02:13, 07:181, 07:328, 12:02:11, 12:03:09
23	205 bp	1070 bp	*06:31	*16:04:01, 16:29, 16:33, 16:42, 16:55, 16:61
24	160 bp	1070 bp	*06:09, 06:34	*02:22, 02:47, 04:94:01-04:94:02, 05:08, 05:52,

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	210 bp		*06:35, 06:103	05:89, 08:27, 08:29, 08:31, 12:31, 18:03, B*13:31, B*13:41, B*15:58, B*15:73, B*15:137, B*15:303, B*39:36, B*55:21, B*56:43 *07:138^w, B*15:32:01^w-15:32:02^w, B*15:299^w
25⁵	85 bp 190 bp	1070 bp	*06:38 *06:118	*01:60, 07:31:01-07:31:02, 07:177, 14:17, 17:21
26	130 bp	1070 bp	*06:39	
27⁶	190 bp 225 bp	1070 bp	*06:42 *06:40	*14:29 B*39:79
28⁵	90 bp 220 bp	1070 bp	*06:41 *06:47, 06:123	*12:32 *02:57, 12:11,
29	175 bp 210 bp	1070 bp	*06:43:01-06:43:02 *06:47	A*26:79, B*15:207 *12:11
30⁵	100 bp	1070 bp	*06:44	*07:01:13
31	155 bp 260 bp	1070 bp	*06:45 *06:111	
32	195 bp	1070 bp	*06:19, 06:66	
33⁵	105 bp 245 bp	1070 bp	*06:60 *06:69, 06:93	
34	175 bp 275 bp	1070 bp	*06:74Q *06:20	*15:32Q *01:32, 02:56, 03:102, 07:81, 07:168, 12:50
35	235 bp 380 bp	1070 bp	*06:65, 06:93 *06:46N	
36⁵	120 bp 220 bp	1070 bp	*06:57 *06:58, 06:81	*02:37
37	210 bp	1070 bp	*06:49N, 06:101	*04:94:01-04:94:02, 12:10:01-12:10:02, 18:03, B*15:27:01-15:27:03, B*15:109
38⁵	120 bp 470 bp	1070 bp	*06:70 *06:73	*02:02:13 *03:171, 03:211:01, 04:144, 05:93, 08:20, 08:40, 12:109
39	280 bp	1070 bp	*06:50, 06:96	*01:35, 02:20, 02:58, 04:08, 04:34, 04:147, 05:27, 05:39, 08:41, 12:53, 12:83, 12:106, 14:20, 15:15, 15:77, 17:07, B*58:02
40	275 bp	1070 bp	*06:54	
41	155 bp	1070 bp	*06:03:01-06:03:02, 06:76:01	*02:02:13, 12:02:11, 12:03:09, 12:03:26, B*51:39
42	170 bp	1070 bp	*06:53:01-06:53:02	
43	190 bp	1070 bp	*06:28, 06:76:01- 06:76:02	*02:12, 02:49, 02:55, 03:15, 03:27, 03:38:01- 03:38:02, 03:69, 03:130, 03:136, 03:163, 04:01:01:01-04:01:28, 04:01:30-04:01:57, 04:03:01, 04:04:01-04:09N, 04:12 ^w , 04:13-04:20, 04:23-04:35, 04:37-04:54, 04:56-04:139, 04:141- 04:152, 04:154-04:165, 05:42, 05:46, 07:20, 07:64, 07:73, 07:92, 07:96:01-07:96:02, 07:172:01-07:172:02, 08:05, 08:21, 08:25, 12:02:01-12:04:02, 12:06-12:08, 12:10:01-12:15, 12:17-12:20, 12:22-12:32, 12:34-12:48, 12:50- 12:70, 12:72-12:97, 12:99-12:115, 14:04, 14:49, 15:03, 15:16, 15:25, 16:15:01-16:15:02, 16:25, 17:01:01:01-17:01:07, 17:01:09-17:23, 18:04
44⁵	120 bp 215 bp	1070 bp	*06:77 *06:100	A*11:47, A*26:89, B*37:01:04, B*40:94, B*54:02

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **75V**

Lot-specific information

45	220 bp	1070 bp	*06:79N	
46 ⁵	95 bp	1070 bp	*06:30	*01:17, 01:21, 02:12, 02:55, 03:27, 03:38:01-03:38:02, 03:130, 03:163, 04:33, 04:107, 05:46, 07:07, 07:16, 07:51, 07:181, 08:05, 08:21, 08:25, 12:02:01-12:04:02, 12:06-12:08, 12:10:01-12:20, 12:22-12:27, 12:29-12:32, 12:34-12:48, 12:50-12:57, 12:59-12:62, 12:64-12:97, 12:99-12:107, 12:109-12:115, 14:04, 15:03, 15:16, 16:15:01-16:15:02, 16:25, 17:01:01:01-17:10, 17:12-17:14, 17:16-17:23, B*07:13, B*67:02
47	210 bp	1070 bp	*06:83	
48 ⁸	Negative Control			

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-C*06 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length. Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

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

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings. Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for 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. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-C alleles, non-HLA-C*06 alleles will be amplified by primer mixes 1 to 6, 8 to 11, 14, 17, 19 to 25, 27 to 30, 34, 36 to 39, 41, 43 and 46. In addition, a few HLA-A and HLA-B alleles will be amplified by primer 4, 6, 8 to 11, 14, 19, 24, 27, 29, 37, 39, 41, 44 and 46.

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

⁶Primer mixes 16, 17 and 27 have a tendency to giving rise to primer oligomer formation.

⁷Primer mix 22 may have tendency of unspecific amplification.

⁸Primer mix 48 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

⁹Primer mix 14 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C*06 resolution primer mixes in the C*03 alleles.

'w', may be weakly amplified.

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

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **75V**

Lot-specific information
PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	240	220	135	250	165	260	110	240	160	190	130	205
Length of int. pos. control ¹	800	800	1070	1070	800	1070	1070	1070	1070	800	1070	1070
5'-primer(s) ²	28	361	105	2 nd I	113	2 nd I	107	361	47	142	213	529
	5'-TCA 3'	5'-AgT 3'	5'-gCT 3'	5'-CCA 3'	5'-CCA 3'	5'-CCA 3'	5'-CgA 3'	5'-AgT 3'	5'-Agg 3'	5'-TCC 3'	5'-CCC 3'	5'-AgA 3'
		361	113		176		157		368	419	419	
		5'-AgT 3'	5'-CCA 3'		5'-gCA 3'		5'-TgA 3'		5'-gTg 3'	5'-gTC 3'	5'-gTC 3'	
					368		232		412			
					5'-gTg 3'		5'-AgA 3'		5'-ATA 3'			
									420			
									5'-TAT 3'			
3'-primer(s) ³	97	538	201	539	302	538	302	559	312	302	302	3 rd I
	5'-gTC 3'	5'-CCA 3'	5'-CTC 3'	5'-TCA 3'	5'-ggT 3'	5'-CCg 3'	5'-ggT 3'	5'-CTC 3'	5'-AgT 3'	5'-ggT 3'	5'-ggC 3'	5'-CTC 3'
					538	560			538	565	565	
					5'-CCA 3'	5'-ACA 3'			5'-CCA 3'	5'-CAT 3'	5'-CAT 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	155	225	135	235	160	220	85	115	190	170	205	160
Length of int. pos. control ¹	1070	1070	800	1070	800	1070	800	1070	1070	1070	1070	1070
5'-primer(s) ²	361	341	376	397	361	122	97	97	28	213	361	368
	5'-AgT 3'	5'-ggA 3'	5'-gCT 3'	5'-gCT 3'	5'-AgT 3'	5'-CCT 3'	5'-TCg 3'	5'-TCg 3'	5'-TCA 3'	5'-CCC 3'	5'-AgT 3'	5'-gTC 3'
		894	608	501				361	362			419
		5'-TgC 3'	5'-... 3'	5'-..C 3'				5'-AgT 3'	5'-ggT 3'			5'-gTT 3'
									388			420
									5'-CCA 3'			5'-TAT 3'
3'-primer(s) ³	475	353	3 rd I	3 rd I	479	302	142	172	239	341	527	538
	5'-ggT 3'	5'-TgA 3'	5'-CTC 3'	5'-CTC 3'	5'-CCA 3'	5'-ggT 3'	5'-TgC 3'	5'-CAT 3'	5'-gCT 3'	5'-Cgg 3'	5'-CCg 3'	5'-CCA 3'
	532	956			532		214	595	538			
	5'-CTg 3'	5'-CAg 3'			5'-CTg 3'		5'-CCA 3'	5'-CCA 3'	5'-CCA 3'			
					547							
					5'-gTg 3'							
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **75V**

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product	85	130	190	90	175	100	155	195	105	175	235	120
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	361 5'-AgT 3'	211 5'-AgT 3'	361 5'-AgT 3'	355 5'-CCT 3'	368 5'-gTC 3'	213 5'-CCC 3'	187 5'-gCT 3'	157 5'-TgA 3'	97 5'-TCg 3'	463 5'-TgA 3'	97 5'-TCg 3'	359 5'-CCg 3'
				368 5'-gTC 3'	406 5'-gCA 3'		862 5'-ACA 3'	361 5'-AgT 3'		562 5'-Cgg 3'	742 5'-ACT 3'	366 5'-ATA 3'
				490 5'-CgT 3'	406 5'-gCC 3'							458 5'-ggg 3'
3'-primer(s) ³	404 5'-CAA 3'	302 5'-ggT 3'	511 5'-CCg 3'	538 5'-CCA 3'	538 5'-CCA 3'	270 5'-TAg 3'	302 5'-ggT 3'	302 5'-ggT 3'	160 5'-gTg 3'	3 rd I 5'-CTC 3'	288 5'-gCA 3'	538 5'-CCA 3'
	512 5'-CCA 3'		544 5'-ggT 3'				956 5'-CAg 3'	523 5'-ACA 3'	295 5'-TCC 3'		295 5'-TCC 3'	
									299 5'-TCT 3'		956 5'-CAg 3'	
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47
Length of spec. PCR product	210	120	280	275	155	170	190	120	220	95	210
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	368 5'-gTT 3'	134 5'-CCA 3'	2 nd I 5'-CCA 3'	361 5'-AgT 3'	97 5'-TCT 3'	213 5'-CCC 3'	142 5'-TCg 3'	97 5'-TCC 3'	361 5'-AgT 3'	289 5'-Agg 3'	56 5'-CCA 3'
	375 5'-TgA 3'	652 5'-CCA 3'						671 5'-CAA 3'			
3'-primer(s) ³	538 5'-CCA 3'	213 5'-Cgg 3'	559 5'-CAg 3'	594 5'-CCC 3'	213 5'-Cgg 3'	341 5'-ggT 3'	289 5'-AgC 3'	175 5'-CCg 3'	540 5'-CTT 3'	341 5'-Cgg 3'	97 5'-gTC 3'
		956 5'-CAg 3'	578 5'-TgT 3'			343 5'-T 3'	289 5'-AgC 3'	846 5'-CAC 3'			
Well No.	37	38	39	40	41	42	43	44	45	46	47

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

²The nucleotide position 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 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.

101.614-12 – including **Taq** pol., IFU-01
101.614-12u– without **Taq** pol., IFU-02

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Lot No.: **75V**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*06 SSP subtyping kit²																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201201501	201201502	201201503	201201504	201201505	201435106	201201507	201201508	201435109	201201510	201201511	201435112	201201513	201201514	201435115	201201516
IHWC cell line¹		C*																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	+	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **75V**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*06 SSP subtyping kit ²																				
				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	201435117	201201518	201201519	201201520	201435121	201201522	201201523	201435124	201435125	201201526	201201527	201435128	201435129	201201530	201435131	201201532
	IHWC cell line ¹		C*																	
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL		*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM		*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB		*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU		*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF		*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B		*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL		*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199		*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301		*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND		*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **75V**

Lot-specific information

CELL LINE VALIDATION SHEET																	
HLA-C*06 SSP subtyping kit²																	
			Well														
			33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
		Prod. No.:	201435133	201435134	201435135	201435136	201435137	201201538	201435139	201201540	201315741	201315742	201315743	201435144	201315745	201435146	201315747
	IHWC cell line ¹	C*															
1	9001 SA	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01 *15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
4	9275 GU373	*03:04 *04:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
5	9009 KAS011	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04 *07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
9	9026 YAR	*12:03	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
10	9107 LKT3	*01:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02 *03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03 *07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02 *07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
23	9124 IHL	*01:02 *15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
25	9049 IBW9	*08:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04 *15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01 *16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
31	9019 DUCAF	*05:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01 *17:03	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
33	9098 MT14B	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
35	9302 SSTO	*05:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03 *04:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
37	9065 HHKB	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02 *07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02 *06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02 *08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
45	9239 SHJO	*06:02 *17:01	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
46	9013 SCHU	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04 *15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01 *16:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-

¹The provided cell line HLA specificities are retrieved from the <http://www.ihwg.org/hla> web site. The specificity of an individual cell line may thus be subject to change.



101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: 75V

Lot-specific information

²The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 7, 8, 10, 12 to 22, 24 to 42 and 44 to 45 and 47 were available.

The specificity of the primers in primer solutions 8, 10, 14, 16, 19, 21, 22, 24, 25, 27, 28, 30, 32, 34, 35, 38, 39, 41, 42 and 44 were tested by separately adding one 5'-primer, respectively one 3'-primer. In primer solutions 13, 17, 20, 33, 40 and 45 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 7, 12, 15, 18, 26, 29, 31, 36, and 47 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solution 2, 3, 5, 9, 10, 14, 16, 21, 24, 28, 32, 34, 35, 38 and 44 one or two 5'-primers were not possible to test, and in primer solutions 10, 11, 19, 21, 25, 27, 32, 35, 39 and 42 one 3'-primer was not possible to test.

Additional primers in primers solutions 5, 6, 9 and 11 were tested by separately adding one 5'-primer or one 3'-primer.

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot No.: **75V**

Lot-specific information

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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Lot-specific information

101.614-12 – including *Taq* pol., IFU-01
101.614-12u– without *Taq* pol., IFU-02

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101.614-12 – including **Taq pol.**, IFU-01
101.614-12u– without **Taq pol.**, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **75V**

Lot-specific information

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