

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **41Y**

Lot-specific Information
Olerup SSP® HLA-C*07

Product number:	101.615-24/04 – including <i>Taq</i> pol. 101.615-24u/04u – without <i>Taq</i> pol.
Lot number:	41Y
Expiry date:	2017-December-01
Number of tests:	24 tests – Product No. 101.615-24/24u 4 tests – Product No. 101.615-04/04u
Number of wells per test:	92+1
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. 41Y.

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*07 Lot (04X)**

The HLA-C*07 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.

Six wells have been added to HLA-C*07, wells **88 to 93**.

¹As described in section Uniquely Identified Alleles.

The HLA-C*07 primer set, specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP®* HLA-C*07 lot was made (**Lot No. 04X**). The kit design is based on IMGT/HLA database 3.19.0.

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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
4	-	Added	3'-primer added for the C*07:02:65 allele.
14	Moved, added, modified	Moved, added	Primer pairs moved to well 16, primer pairs added from well 16, positive control primers pairs have been exchanged and optimized for improved specificity, 5'-primer modified for improved specificity, 3'-primer added for the C*07:02:65 allele.
16	Moved, added	Moved, added	Primer pairs moved to well 14, primer pairs added from well 14, exchanged positive control primer pairs for improved specificity.
43	-	Added	3'-primer added for the C*07:339 allele.
50	Moved	Moved	Primer pair moved to well 92 for increased HLA-specific amplification and decreased tendency of primer oligomer formation.
65	-	Modified	3'-primer modified for improved HLA-specific amplification.
67	-	Added	3'-primer added for the C*07:393N allele.
68	-	Added	3'-primer added for the C*07:381 allele.
69	-	Added	3'-primer added for the C*07:397 allele.
70	-	Added	3'-primer added for the C*07:131:02 allele.
78	-	Modified	3'-primer modified for improved HLA-specific amplification.
82	-	Added	3'-primer added for the C*07:393N allele.
83	Moved, exchanged	Moved, exchanged	Primer pair exchanged and moved to well 89 for improved HLA-specific amplification.
84	-	Added	3'-primer added for the C*07:386 allele.
87	Added	Added	Negative Control moved to well 93, primer pairs added for the C*07:339 and C*07:340 alleles.
88	New	New	New primer pair added for the C*07:407 allele.
89	Added, exchanged	Added, exchanged	Primer pair exchanged and added from well 83.
90	New	New	New primer pair added for the C*07:351 allele.
91	New	New	New primer pair added for the C*07:153 allele.
92	Added	Added	Primer pair added from well 50.
93	-	-	Negative Control added from well 87.

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Lot-specific Information

Change in revision R01 compared to R00:

1. Primer mix 14 does not amplify the C*07:25 allele. This has been corrected in the Specificity and Interpretation Tables.

Changes in revision R02 compared to R01:

1. Primer mix 30 does not amplify the C*07:75 and 07:254 alleles. Thus, this lot of the C*07 kit cannot distinguish the C*07:75 and the C*07:02:01:01-07:02:67, 07:105, 07:114, 07:135, 07:144, 07:146, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193, 07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:221, 07:226, 07:233, 07:239-07:240, 07:244, 07:251, 07:261-07:262, 07:270-07:271, 07:273-07:275, 07:283-07:284, 07:286-07:287, 07:290-07:291, 07:305-07:306, 07:309, 07:312, 07:318-07:322, 07:325-07:327, 07:333-07:334, 07:341, 07:344-07:346, 07:360, 07:363, 07:372, 07:376, 07:379, 07:382-07:384, 07:388-07:389, 07:391-07:392, 07:398-07:401, 07:405 and 07:409 alleles, nor the C*07:254 and the C*07:01:01:01-07:01:04, 07:01:06-07:01:12, 07:01:14-07:01:24, 07:01:26-07:01:35, 07:01:37-07:01:45, 07:01:47, 07:103, 07:111, 07:113, 07:115, 07:156, 07:162-07:163, 07:170, 07:182, 07:188, 07:190, 07:197, 07:200-07:201, 07:204, 07:206, 07:214-07:215, 07:219, 07:223, 07:225, 07:228, 07:236-07:237, 07:246, 07:249, 07:253, 07:255, 07:257:01-07:257:02, 07:266-07:269, 07:276-07:278, 07:280-07:282, 07:296-07:300, 07:303, 07:310-07:311, 07:313, 07:330-07:332, 07:362, 07:366, 07:369-07:371, 07:377, 07:380, 07:385 and 07:408 alleles. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R03 compared to R02:

1. Primer mix 80 does not amplifies the C*07:316 and 07:359 and the C*05:108 and C*06:111 alleles. Thus, this lot of the C*07 subtyping kit cannot distinguish the C*07:359 and the C*07:02:01:01-07:02:67, 07:105, 07:114, 07:135, 07:144, 07:146, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193, 07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:221, 07:226, 07:233, 07:239-07:240, 07:244, 07:251, 07:261-07:262, 07:270-07:271, 07:273-07:275, 07:283-07:284, 07:286-07:287, 07:290-07:291, 07:305-07:306, 07:309, 07:312, 07:318-07:322, 07:325-07:327, 07:333-07:334, 07:341, 07:344-07:346, 07:360, 07:363, 07:372, 07:376, 07:379, 07:382-07:384, 07:388-07:389, 07:391-07:392, 07:398-07:401, 07:405 and 07:409 alleles. This has been corrected in the Specificity and Interpretation Tables.

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Lot-specific Information

Well **93** 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*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C*07:01 to HLA-C*07:409 alleles.

PLATE LAYOUT

Each test consists of 93 PCR reactions in a 96 well cut PCR plate. Wells 94 to 96 are empty.

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	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	NC	empty	empty	empty

The 96 well cut PCR plate is marked with ‘HLA-C*07’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘41Y’.

Wells 1 to 92 – HLA-C*07 high resolution primers.

Well 93 – 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 heat-sealed with a PCR-compatible foil.

INTERPRETATION

Due to the sharing of sequence motifs between HLA-C alleles, non-HLA-C*07 alleles will be amplified by primer mixes 2, 3, 6, 8 to 14, 16 to 20, 22, 26, 27, 30, 32, 36, 37, 40, 42, 45, 49, 55, 57, 58, 60, 61, 64, 68, 71 to 73, 77, 78, 80, 81, 84, 89 and 90. In addition, a few HLA-A and HLA-B alleles will be amplified by primer mixes 2, 4, 6 to 8, 10 to 12, 14, 16, 18, 20, 22, 24, 25, 27, 32, 37, 42, 45, 53 to 56, 58 to 60, 62, 71 to 73, 77, 84, 90 and 92.

For further details see Specificity Table.

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Lot-specific Information

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*07 alleles, i.e. **C*07:01 to C*07:409**, recognized by the HLA Nomenclature Committee in January 2015^{1,2} will be amplified by the primers in the HLA-C*07 SSP kit³.

The HLA-C*07 kit enables separation of the confirmed HLA-C*07 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*07 alleles is listed below.

The HLA-C*07 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*07 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*07:29, 07:347N	71	C*07:118, 07:203	52
C*07:51, 07:314	19	C*07:125, 07:374, 07:402	54
C*07:52, 07:337	18	C*07:132, 07:179	55
C*07:61N, 07:194, 07:368	70	C*07:133, 07:149, 07:381	67
C*07:74, 07:308	39	C*07:147, 07:241	60
C*07:78, 07:235Q	40	C*07:164N, 07:212	58
C*07:93, 07:207	42	C*07:165, 07:180	60
C*07:100, 07:161	49	C*07:245, 07:342	45
C*07:104N, 07:119	92		
C*07:117, 07:126	51		

The HLA-C*07 subtyping kit cannot distinguish the following silent mutations: the C*07:01:01:01-07:01:04, 07:01:06-07:01:12, 07:01:14-07:01:24, 07:01:26-07:01:35, 07:01:37-07:01:45 and 07:01:47 alleles, the C*07:01:05 and 07:01:36 alleles, the C*07:02:01:01-07:02:67 alleles, the C*07:04:01-07:04:10, the C*07:17:01-07:17:02, the C*07:27:01-07:27:02, the C*07:31:01-07:31:02, the C*07:38:01-07:38:02, the C*07:56:01-07:56:02, the C*07:96:01-07:96:02, the C*07:108:01-07:108:02, the C*07:131:01-07:131:02, the C*07:137:01-07:137:02, the C*07:141:01-07:141:02, the C*07:172:01-07:172:02 or the C*07:199:01-07:199:02 alleles.

¹HLA-C alleles listed on the IMGT/HLA web page 2015-January-19, release 3.19.0, 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>.

³This lot of the C*07 kit cannot distinguish the C*07:75 or the C*07:359 and the C*07:02:01:01-07:02:67, 07:105, 07:114, 07:135, 07:144, 07:146, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193, 07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:221, 07:226, 07:233, 07:239-07:240, 07:244, 07:251, 07:261-07:262, 07:270-07:271, 07:273-07:275, 07:283-07:284, 07:286-07:287, 07:290-07:291, 07:305-07:306, 07:309, 07:312, 07:318-07:322, 07:325-07:327, 07:333-07:334, 07:341, 07:344-07:346, 07:360, 07:363, 07:372, 07:376, 07:379, 07:382-07:384, 07:388-07:389, 07:391-07:392, 07:398-07:401, 07:405 and 07:409 alleles, nor the C*07:254 and the C*07:01:01:01-07:01:04, 07:01:06-07:01:12, 07:01:14-07:01:24, 07:01:26-07:01:35, 07:01:37-07:01:45, 07:01:47, 07:103, 07:111, 07:113, 07:115, 07:156, 07:162-07:163,

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07:170, 07:182, 07:188, 07:190, 07:197, 07:200-07:201, 07:204, 07:206, 07:214-07:215, 07:219, 07:223, 07:225, 07:228, 07:236-07:237, 07:246, 07:249, 07:253, 07:255, 07:257:01-07:257:02, 07:266-07:269, 07:276-07:278, 07:280-07:282, 07:296-07:300, 07:303, 07:310-07:311, 07:313, 07:330-07:332, 07:362, 07:366, 07:369-07:371, 07:377, 07:380, 07:385 and 07:408 alleles.

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:01:01:01	Confirmed	C*07:02:01:03	Confirmed	C*07:02:49	Confirmed	C*07:24	Unconfirmed
C*07:01:01:02	Unconfirmed	C*07:02:01:04	Unconfirmed	C*07:02:50	Unconfirmed	C*07:25	Unconfirmed
C*07:01:02	Confirmed	C*07:02:01:05	Unconfirmed	C*07:02:51	Unconfirmed	C*07:26	Confirmed
C*07:01:03	Unconfirmed	C*07:02:02	Unconfirmed	C*07:02:52	Confirmed	C*07:27:01	Unconfirmed
C*07:01:04	Unconfirmed	C*07:02:03	Unconfirmed	C*07:02:53	Unconfirmed	C*07:27:02	Confirmed
C*07:01:05	Confirmed	C*07:02:04	Confirmed	C*07:02:54	Unconfirmed	C*07:28	Confirmed
C*07:01:06	Unconfirmed	C*07:02:05	Unconfirmed	C*07:02:55	Unconfirmed	C*07:29	Unconfirmed
C*07:01:07	Confirmed	C*07:02:06	Confirmed	C*07:02:56	Unconfirmed	C*07:30	Unconfirmed
C*07:01:08	Confirmed	C*07:02:07	Confirmed	C*07:02:57	Unconfirmed	C*07:31:01	Confirmed
C*07:01:09	Confirmed	C*07:02:08	Confirmed	C*07:02:58	Unconfirmed	C*07:31:02	Unconfirmed
C*07:01:10	Confirmed	C*07:02:09	Unconfirmed	C*07:02:59	Unconfirmed	C*07:32N	Confirmed
C*07:01:11	Unconfirmed	C*07:02:10	Confirmed	C*07:02:60	Unconfirmed	C*07:33N	Confirmed
C*07:01:12	Unconfirmed	C*07:02:11	Confirmed	C*07:02:61	Unconfirmed	C*07:35	Confirmed
C*07:01:13	Unconfirmed	C*07:02:12	Unconfirmed	C*07:02:62	Confirmed	C*07:36	Confirmed
C*07:01:14	Unconfirmed	C*07:02:13	Confirmed	C*07:02:63	Confirmed	C*07:37	Unconfirmed
C*07:01:15	Confirmed	C*07:02:14	Unconfirmed	C*07:02:64	Unconfirmed	C*07:38:01	Unconfirmed
C*07:01:16	Unconfirmed	C*07:02:15	Unconfirmed	C*07:02:65	Unconfirmed	C*07:38:02	Unconfirmed
C*07:01:17	Unconfirmed	C*07:02:16	Confirmed	C*07:02:66	Unconfirmed	C*07:39	Confirmed
C*07:01:18	Confirmed	C*07:02:17	Confirmed	C*07:02:67	Unconfirmed	C*07:40	Confirmed
C*07:01:19	Unconfirmed	C*07:02:18	Confirmed	C*07:03	Unconfirmed	C*07:41	Unconfirmed
C*07:01:20	Unconfirmed	C*07:02:19	Unconfirmed	C*07:04:01	Confirmed	C*07:42	Unconfirmed
C*07:01:21	Unconfirmed	C*07:02:20	Confirmed	C*07:04:02	Confirmed	C*07:43	Confirmed
C*07:01:22	Unconfirmed	C*07:02:21	Unconfirmed	C*07:04:03	Unconfirmed	C*07:44	Unconfirmed
C*07:01:23	Confirmed	C*07:02:22	Unconfirmed	C*07:04:04	Unconfirmed	C*07:45	Confirmed
C*07:01:24	Unconfirmed	C*07:02:23	Unconfirmed	C*07:04:05	Unconfirmed	C*07:46	Confirmed
C*07:01:25	Unconfirmed	C*07:02:24	Confirmed	C*07:04:06	Confirmed	C*07:47	Unconfirmed
C*07:01:26	Unconfirmed	C*07:02:25	Unconfirmed	C*07:04:07	Unconfirmed	C*07:48	Confirmed
C*07:01:27	Unconfirmed	C*07:02:26	Unconfirmed	C*07:04:08	Unconfirmed	C*07:49	Confirmed
C*07:01:28	Unconfirmed	C*07:02:27	Unconfirmed	C*07:04:09	Unconfirmed	C*07:50	Unconfirmed
C*07:01:29	Confirmed	C*07:02:28	Confirmed	C*07:04:10	Unconfirmed	C*07:51	Confirmed
C*07:01:30	Confirmed	C*07:02:29	Unconfirmed	C*07:05	Confirmed	C*07:52	Unconfirmed
C*07:01:31	Confirmed	C*07:02:30	Unconfirmed	C*07:06	Confirmed	C*07:53	Unconfirmed
C*07:01:32	Unconfirmed	C*07:02:31	Unconfirmed	C*07:07	Confirmed	C*07:54	Confirmed
C*07:01:33	Unconfirmed	C*07:02:32	Confirmed	C*07:08	Unconfirmed	C*07:55N	Confirmed
C*07:01:34	Unconfirmed	C*07:02:33	Unconfirmed	C*07:09	Unconfirmed	C*07:56:01	Unconfirmed
C*07:01:35	Unconfirmed	C*07:02:34	Unconfirmed	C*07:10	Confirmed	C*07:56:02	Confirmed
C*07:01:36	Confirmed	C*07:02:35	Unconfirmed	C*07:11	Unconfirmed	C*07:57	Unconfirmed
C*07:01:37	Unconfirmed	C*07:02:36	Unconfirmed	C*07:12	Confirmed	C*07:58	Unconfirmed
C*07:01:38	Unconfirmed	C*07:02:37	Unconfirmed	C*07:13	Confirmed	C*07:59	Confirmed
C*07:01:39	Unconfirmed	C*07:02:38	Unconfirmed	C*07:14	Unconfirmed	C*07:60	Confirmed
C*07:01:40	Unconfirmed	C*07:02:39	Confirmed	C*07:15	Confirmed	C*07:61N	Confirmed
C*07:01:41	Unconfirmed	C*07:02:40	Unconfirmed	C*07:16	Confirmed	C*07:62	Unconfirmed
C*07:01:42	Unconfirmed	C*07:02:41	Unconfirmed	C*07:17:01	Confirmed	C*07:63	Unconfirmed
C*07:01:43	Unconfirmed	C*07:02:42	Unconfirmed	C*07:17:02	Unconfirmed	C*07:64	Unconfirmed
C*07:01:44	Confirmed	C*07:02:43	Unconfirmed	C*07:18	Confirmed	C*07:65	Confirmed
C*07:01:45	Unconfirmed	C*07:02:44	Confirmed	C*07:19	Confirmed	C*07:66	Confirmed
C*07:01:46	Unconfirmed	C*07:02:45	Unconfirmed	C*07:20	Confirmed	C*07:67	Confirmed
C*07:01:47	Unconfirmed	C*07:02:46	Confirmed	C*07:21	Unconfirmed	C*07:68	Confirmed
C*07:02:01:01	Confirmed	C*07:02:47	Unconfirmed	C*07:22	Confirmed	C*07:69	Confirmed
C*07:02:01:02	Unconfirmed	C*07:02:48	Unconfirmed	C*07:23	Unconfirmed	C*07:70	Confirmed

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Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:71	Unconfirmed	C*07:118	Confirmed	C*07:165	Confirmed	C*07:213	Unconfirmed
C*07:72	Confirmed	C*07:119	Confirmed	C*07:166	Unconfirmed	C*07:214	Unconfirmed
C*07:73	Confirmed	C*07:120	Confirmed	C*07:167	Unconfirmed	C*07:215	Unconfirmed
C*07:74	Unconfirmed	C*07:121Q	Confirmed	C*07:168	Unconfirmed	C*07:216	Confirmed
C*07:75	Confirmed	C*07:122	Confirmed	C*07:169	Unconfirmed	C*07:217	Unconfirmed
C*07:76:01	Confirmed	C*07:123	Confirmed	C*07:170	Unconfirmed	C*07:218	Confirmed
C*07:76:02	Confirmed	C*07:124	Confirmed	C*07:171	Confirmed	C*07:219	Unconfirmed
C*07:77	Unconfirmed	C*07:125	Confirmed	C*07:172:01	Confirmed	C*07:220	Unconfirmed
C*07:78	Unconfirmed	C*07:126	Confirmed	C*07:172:02	Unconfirmed	C*07:221	Unconfirmed
C*07:79	Confirmed	C*07:127	Confirmed	C*07:173	Confirmed	C*07:222	Confirmed
C*07:80	Confirmed	C*07:128	Unconfirmed	C*07:174	Unconfirmed	C*07:223	Unconfirmed
C*07:81	Unconfirmed	C*07:129	Confirmed	C*07:175	Unconfirmed	C*07:224	Confirmed
C*07:82	Unconfirmed	C*07:130	Confirmed	C*07:176	Confirmed	C*07:225	Unconfirmed
C*07:83	Confirmed	C*07:131:01	Confirmed	C*07:177	Unconfirmed	C*07:226	Unconfirmed
C*07:84	Unconfirmed	C*07:131:02	Unconfirmed	C*07:178	Unconfirmed	C*07:227N	Unconfirmed
C*07:85	Confirmed	C*07:132	Confirmed	C*07:179	Confirmed	C*07:228	Unconfirmed
C*07:86	Unconfirmed	C*07:133	Unconfirmed	C*07:180	Confirmed	C*07:229	Confirmed
C*07:87	Unconfirmed	C*07:134	Confirmed	C*07:181	Unconfirmed	C*07:230	Unconfirmed
C*07:88	Confirmed	C*07:135	Unconfirmed	C*07:182	Unconfirmed	C*07:231	Confirmed
C*07:89	Confirmed	C*07:136	Confirmed	C*07:183	Unconfirmed	C*07:232	Confirmed
C*07:90	Confirmed	C*07:137:01	Unconfirmed	C*07:184	Confirmed	C*07:233	Unconfirmed
C*07:91	Confirmed	C*07:137:02	Confirmed	C*07:185	Unconfirmed	C*07:234	Confirmed
C*07:92	Unconfirmed	C*07:138	Unconfirmed	C*07:186	Confirmed	C*07:235Q	Unconfirmed
C*07:93	Confirmed	C*07:139	Unconfirmed	C*07:187	Unconfirmed	C*07:236	Unconfirmed
C*07:94	Unconfirmed	C*07:140	Confirmed	C*07:188	Unconfirmed	C*07:237	Unconfirmed
C*07:95	Confirmed	C*07:141:01	Confirmed	C*07:189	Confirmed	C*07:238	Confirmed
C*07:96:01	Confirmed	C*07:141:02	Confirmed	C*07:190	Unconfirmed	C*07:239	Unconfirmed
C*07:96:02	Unconfirmed	C*07:142	Unconfirmed	C*07:191N	Confirmed	C*07:240	Unconfirmed
C*07:97	Confirmed	C*07:143	Confirmed	C*07:192	Confirmed	C*07:241	Confirmed
C*07:98N	Unconfirmed	C*07:144	Unconfirmed	C*07:193	Unconfirmed	C*07:242	Confirmed
C*07:99	Unconfirmed	C*07:145	Confirmed	C*07:194	Confirmed	C*07:243	Confirmed
C*07:100	Confirmed	C*07:146	Unconfirmed	C*07:195	Unconfirmed	C*07:244	Unconfirmed
C*07:101	Confirmed	C*07:147	Confirmed	C*07:196	Confirmed	C*07:245	Unconfirmed
C*07:102	Confirmed	C*07:148	Confirmed	C*07:197	Unconfirmed	C*07:246	Unconfirmed
C*07:103	Unconfirmed	C*07:149	Confirmed	C*07:198N	Confirmed	C*07:247	Unconfirmed
C*07:104N	Confirmed	C*07:150Q	Unconfirmed	C*07:199:01	Unconfirmed	C*07:248	Confirmed
C*07:105	Unconfirmed	C*07:151	Confirmed	C*07:199:02	Confirmed	C*07:249	Unconfirmed
C*07:106	Confirmed	C*07:152N	Unconfirmed	C*07:200	Unconfirmed	C*07:250	Confirmed
C*07:107	Unconfirmed	C*07:153	Confirmed	C*07:201	Unconfirmed	C*07:251	Unconfirmed
C*07:108:01	Confirmed	C*07:154	Confirmed	C*07:202	Confirmed	C*07:252	Confirmed
C*07:108:02	Unconfirmed	C*07:155	Confirmed	C*07:203	Confirmed	C*07:253	Unconfirmed
C*07:109	Confirmed	C*07:156	Unconfirmed	C*07:204	Unconfirmed	C*07:254	Confirmed
C*07:110	Unconfirmed	C*07:157	Unconfirmed	C*07:205	Confirmed	C*07:255	Unconfirmed
C*07:111	Unconfirmed	C*07:158	Unconfirmed	C*07:206	Unconfirmed	C*07:256	Confirmed
C*07:112	Confirmed	C*07:159	Unconfirmed	C*07:207	Confirmed	C*07:257:01	Unconfirmed
C*07:113	Unconfirmed	C*07:160	Unconfirmed	C*07:208	Unconfirmed	C*07:257:02	Unconfirmed
C*07:114	Unconfirmed	C*07:161	Unconfirmed	C*07:209	Unconfirmed	C*07:258	Unconfirmed
C*07:115	Unconfirmed	C*07:162	Unconfirmed	C*07:210	Unconfirmed	C*07:259	Confirmed
C*07:116	Confirmed	C*07:163	Unconfirmed	C*07:211	Unconfirmed	C*07:260	Unconfirmed
C*07:117	Confirmed	C*07:164N	Unconfirmed	C*07:212	Confirmed	C*07:261	Unconfirmed

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **41Y**

Lot-specific Information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:262	Unconfirmed	C*07:313	Unconfirmed	C*07:363	Unconfirmed
C*07:263	Unconfirmed	C*07:314	Confirmed	C*07:364	Unconfirmed
C*07:264N	Confirmed	C*07:315	Unconfirmed	C*07:365	Unconfirmed
C*07:265	Unconfirmed	C*07:316	Unconfirmed	C*07:366	Unconfirmed
C*07:266	Unconfirmed	C*07:317	Unconfirmed	C*07:367	Unconfirmed
C*07:267	Unconfirmed	C*07:318	Unconfirmed	C*07:368	Unconfirmed
C*07:268	Unconfirmed	C*07:319	Unconfirmed	C*07:369	Unconfirmed
C*07:269	Unconfirmed	C*07:320	Unconfirmed	C*07:370	Unconfirmed
C*07:270	Unconfirmed	C*07:321	Unconfirmed	C*07:371	Unconfirmed
C*07:271	Unconfirmed	C*07:322	Unconfirmed	C*07:372	Unconfirmed
C*07:272	Unconfirmed	C*07:323	Unconfirmed	C*07:373	Unconfirmed
C*07:273	Unconfirmed	C*07:324	Unconfirmed	C*07:374	Unconfirmed
C*07:274	Unconfirmed	C*07:325	Unconfirmed	C*07:375	Unconfirmed
C*07:275	Unconfirmed	C*07:326	Unconfirmed	C*07:376	Unconfirmed
C*07:276	Unconfirmed	C*07:327	Unconfirmed	C*07:377	Unconfirmed
C*07:277	Unconfirmed	C*07:328	Unconfirmed	C*07:378	Unconfirmed
C*07:278	Unconfirmed	C*07:329N	Unconfirmed	C*07:379	Unconfirmed
C*07:279	Confirmed	C*07:330	Unconfirmed	C*07:380	Unconfirmed
C*07:280	Unconfirmed	C*07:331	Unconfirmed	C*07:381	Confirmed
C*07:281	Unconfirmed	C*07:332	Unconfirmed	C*07:382	Unconfirmed
C*07:282	Unconfirmed	C*07:333	Unconfirmed	C*07:383	Unconfirmed
C*07:283	Unconfirmed	C*07:334	Unconfirmed	C*07:384	Unconfirmed
C*07:284	Unconfirmed	C*07:335	Unconfirmed	C*07:385	Unconfirmed
C*07:285	Confirmed	C*07:336	Unconfirmed	C*07:386	Confirmed
C*07:286	Unconfirmed	C*07:337	Unconfirmed	C*07:387	Unconfirmed
C*07:287	Unconfirmed	C*07:338	Unconfirmed	C*07:388	Unconfirmed
C*07:288	Confirmed	C*07:339	Confirmed	C*07:389	Unconfirmed
C*07:289	Unconfirmed	C*07:340	Confirmed	C*07:390	Unconfirmed
C*07:290	Unconfirmed	C*07:341	Unconfirmed	C*07:391	Unconfirmed
C*07:291	Unconfirmed	C*07:342	Confirmed	C*07:392	Unconfirmed
C*07:292	Unconfirmed	C*07:343	Unconfirmed	C*07:393N	Unconfirmed
C*07:293	Confirmed	C*07:344	Unconfirmed	C*07:394	Unconfirmed
C*07:294	Unconfirmed	C*07:345	Unconfirmed	C*07:395	Unconfirmed
C*07:296	Unconfirmed	C*07:346	Unconfirmed	C*07:396	Unconfirmed
C*07:297	Unconfirmed	C*07:347N	Unconfirmed	C*07:397	Confirmed
C*07:298	Unconfirmed	C*07:348	Unconfirmed	C*07:398	Unconfirmed
C*07:299	Unconfirmed	C*07:349	Unconfirmed	C*07:399	Unconfirmed
C*07:300	Unconfirmed	C*07:350N	Unconfirmed	C*07:400	Unconfirmed
C*07:301	Confirmed	C*07:351	Confirmed	C*07:401	Unconfirmed
C*07:302	Unconfirmed	C*07:352	Unconfirmed	C*07:402	Unconfirmed
C*07:303	Unconfirmed	C*07:353	Unconfirmed	C*07:403	Unconfirmed
C*07:304	Unconfirmed	C*07:354	Unconfirmed	C*07:404	Unconfirmed
C*07:305	Unconfirmed	C*07:355	Confirmed	C*07:405	Unconfirmed
C*07:306	Unconfirmed	C*07:356	Unconfirmed	C*07:406	Unconfirmed
C*07:307	Confirmed	C*07:357	Unconfirmed	C*07:407	Confirmed
C*07:308	Unconfirmed	C*07:358	Unconfirmed	C*07:408	Unconfirmed
C*07:309	Unconfirmed	C*07:359	Confirmed	C*07:409	Unconfirmed
C*07:310	Unconfirmed	C*07:360	Unconfirmed		
C*07:311	Unconfirmed	C*07:361	Confirmed		
C*07:312	Unconfirmed	C*07:362	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2015-January-19, release 3.19.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-C*07 homo- and heterozygotes is available upon request.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information
SPECIFICITY TABLE

HLA-C*07 SSP subtyping

Specificities and sizes of the PCR products of the 92+1 primer mixes used for
HLA-C*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*07 alleles ³	Other amplified HLA-Class I alleles ⁴
1	245 bp 425 bp	800 bp	*07:01:01:01-07:02:20, 07:02:22-07:33N, 07:35-07:40, 07:42-07:165, 07:167-07:294, 07:296-07:347N, 07:349-07:409 *07:01:01:01-07:01:40, 07:01:42-07:02:40, 07:02:42-07:06, 07:08, 07:10-07:33N, 07:35-07:48, 07:50-07:75, 07:77-07:114, 07:116-07:209, 07:211-07:222, 07:224-07:237, 07:239-07:246, 07:248-07:294, 07:296-07:314, 07:316-07:327, 07:329N-07:356, 07:358-07:360, 07:362-07:376, 07:378-07:402, 07:404-07:405, 07:407-07:409	
2	290 bp	800 bp	*07:01:01:01-07:01:04, 07:01:06-07:01:35, 07:01:37-07:01:47, 07:05-07:07, 07:09, 07:14, 07:16, 07:18, 07:20-07:22, 07:24, 07:26-07:28, 07:30-07:31:02, 07:35-07:36, 07:40, 07:43-07:44, 07:52-07:53, 07:55N, 07:58-07:60, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:109, 07:111, 07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131:01-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:184, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:225, 07:227N-07:228, 07:231, 07:235Q-07:237, 07:246-07:249, 07:253-07:257:02, 07:263, 07:266-07:269, 07:276-07:282, 07:292-07:293, 07:296-07:301, 07:303-07:304, 07:310-07:311, 07:313, 07:315, 07:330-07:332, 07:337, 07:343, 07:362, 07:366, 07:369-07:371, 07:377, 07:380, 07:385-07:387, 07:404, 07:407-07:408	*02:02:28, 03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 08:72:02, 12:03:10, 15:65, 16:02:11, A*25:27:02, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*58:01:17

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

3 ⁵	110 bp	800 bp	*07:01:01:01-07:01:24, 07:01:26-07:01:45, 07:01:47, 07:06, 07:09, 07:18-07:22, 07:24, 07:26, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:59, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:108:01-07:108:02, 07:110-07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131:01-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:225, 07:227N-07:228, 07:230-07:231, 07:235Q-07:237, 07:246-07:250, 07:253-07:257:02, 07:263, 07:266-07:269, 07:276-07:282, 07:293, 07:296-07:301, 07:303-07:304, 07:310-07:311, 07:313, 07:317, 07:330-07:332, 07:337, 07:343, 07:353, 07:362, 07:366, 07:369-07:371, 07:377, 07:380, 07:385-07:387, 07:404, 07:407-07:408	*04:112, 06:44, 15:62, 16:64, 18:05
4	185 bp	1070 bp	*07:02:01:01-07:02:67, 07:10, 07:13, 07:15, 07:19, 07:23, 07:25, 07:29, 07:32N-07:33N, 07:37-07:39, 07:42, 07:46-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:62, 07:64, 07:66-07:68, 07:72, 07:74-07:76:02, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:100, 07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:138, 07:143-07:147, 07:149, 07:152N, 07:154-07:155, 07:157-07:161, 07:167-07:169, 07:172:01-07:172:02, 07:174-07:175, 07:178, 07:183, 07:185-07:187, 07:192-07:195, 07:198N, 07:202, 07:208-07:209, 07:211, 07:213, 07:216-07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238-07:241, 07:243-07:245, 07:251-07:252, 07:259-07:262, 07:264N-07:265, 07:270-07:271, 07:273-07:275, 07:283-07:291, 07:302, 07:305-07:306, 07:308-07:309, 07:312, 07:314, 07:316-07:322, 07:325-07:327, 07:333-07:335, 07:339-07:342, 07:344-07:352, 07:356, 07:359-07:360, 07:363, 07:367-07:368, 07:372-07:376, 07:379, 07:381-07:384,	B*40:60, B*40:245

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

Lot No.: 41Y			Lot-specific Information	
			07:388-07:393N, 07:397-07:402, 07:405, 07:409	
5⁵	70 bp 145 bp 245 bp	800 bp	*07:53, 07:216 *07:57 *07:03	
6⁵	100 bp	1070 bp	*07:04:01-07:04:10, 07:11-07:12, 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, 07:328- 07:329N, 07:336, 07:338, 07:354- 07:355, 07:357, 07:361, 07:364- 07:365, 07:378, 07:394-07:395, 07:403, 07:406	*05:62, B*44:148
7	190 bp	1070 bp	*07:05	B*27:36, B*48:21, B*48:26
8	285 bp 505 bp	1070 bp	*07:45 *07:06, 07:343	*02:57, 04:40, 06:123, B*38:23, B*39:73
9	215 bp 425 bp	800 bp	*07:33N *07:07, 07:09, 07:49, 07:76:01- 07:76:02, 07:210, 07:238, 07:247, 07:315, 07:328, 07:403, 07:406	*06:17, 18:01-18:09
10	185 bp	1070 bp	*07:08, 07:108:01-07:108:02	*04:58, 04:160, B*40:100
11	285 bp 305 bp	800 bp	*07:24, 07:112, 07:218, 07:396 *07:10, 07:43, 07:184, 07:196, 07:367	*03:04:19, 03:113, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*57:01:18, B*58:01:17
12	130 bp	1070 bp	*07:12, 07:41	*03:251, 04:120, 05:01:01:01-05:01:26, 05:01:28-05:01:31, 05:03- 05:08, 05:10-05:16, 05:18:01-05:22:02, 05:24- 05:48N, 05:50-05:51Q, 05:53-05:61, 05:63-05:94, 05:96-05:109, 05:111- 05:114, 06:129, 08:01:01- 08:06, 08:08:01-08:14, 08:16:01-08:46, 08:48- 08:50, 08:52N-08:63, 08:65-08:71, 08:73-08:75, 08:77-08:83, 08:85- 08:103, 08:105-08:115, A*29:10, B*14:32, B*15:337, B*18:83, B*44:148
13^{5,7}	85 bp	1070 bp	*07:11, 07:56:01-07:56:02, 07:60, 07:79, 07:109	*03:69, 03:274, 04:27, 04:52, 06:53:01-06:53:02, 12:58, 17:26
14	535 bp	1070 bp	*07:02:01:01-07:02:67, 07:04:01-07:05, 07:08, 07:10-07:11, 07:13-07:15, 07:23, 07:27:01-07:27:02, 07:29, 07:31:01-07:33N, 07:37-07:39, 07:42- 07:43, 07:45-07:51, 07:54,	*01:60, 03:14, 03:121N, 03:162, 03:220, 03:261, 04:58, 04:160, 05:23, 05:62, 06:118, 08:07, 08:47, 08:104,

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

			07:56:01-07:56:02, 07:61N-07:64, 07:66-07:68, 07:72, 07:74-07:76:02, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:139, 07:142-07:147, 07:149, 07:152N, 07:154-07:155, 07:157-07:161, 07:167-07:169, 07:172:01-07:172:02, 07:174-07:175, 07:177-07:178, 07:181, 07:183-07:187, 07:192-07:195, 07:198N-07:199:02, 07:202, 07:208-07:209, 07:211, 07:213, 07:216-07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238-07:241, 07:243-07:245, 07:251- 07:252, 07:258-07:262, 07:264N- 07:265, 07:270-07:275, 07:283-07:291, 07:294, 07:302, 07:305-07:306, 07:308-07:309, 07:312, 07:314-07:316, 07:318-07:329N, 07:333-07:336, 07:338-07:342, 07:344-07:352, 07:354- 07:361, 07:363-07:365, 07:367-07:368, 07:372-07:376, 07:378-07:379, 07:381- 07:384, 07:388-07:403, 07:405-07:406, 07:409	12:14:01-12:14:02, 14:17, 17:01:01:01-17:24, 17:26-17:28, B*46:06, B*46:43
15^{5,7}	80 bp 290 bp 460 bp	1070 bp	*07:50 *07:14 *07:89	
16	240 bp	800 bp	*07:13, 07:28, 07:289	*04:01:43, 05:01:17, 05:09:02, 05:17, 08:15:02, 08:72:02, B*35:03:15, B*37:04:02
17⁷	130 bp	1070 bp	*07:04:01-07:04:10, 07:11, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:260, 07:272, 07:302, 07:323-07:324, 07:328- 07:329N, 07:336, 07:338, 07:354- 07:355, 07:357-07:358, 07:361, 07:364-07:365, 07:378, 07:394-07:395, 07:403, 07:406	*05:23, 05:62, 08:07, 08:47, 08:104
18⁵	120 bp 230 bp	800 bp	*07:52, 07:243 *07:15, 07:337	*05:03 *02:77, B*07:77, B*07:193, B*40:60, B*40:245
19⁶	220 bp 465 bp	800 bp	*07:26, 07:92, 07:96:01-07:96:02, 07:314, 07:317, 07:351 *07:07, 07:16, 07:51, 07:177, 07:181, 07:328, 07:367	*18:09
20⁷	145 bp	1070 bp	*07:03, 07:17:01-07:17:02, 07:140- 07:141:02, 07:304, 07:307	*02:02:28, 03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 08:72:02, 12:03:10, 16:02:11, A*25:27:02,

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

	170 bp 190 bp		*07:44, 07:48 *07:81, 07:168	A*30:01:03, A*33:03:09, B*07:02:43, B*07:33:03, B*08:01:25, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*39:09:03, B*57:01:18, B*58:01:17 B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*39:09:03, B*57:01:18, B*58:01:17
21⁵	100 bp 225 bp	800 bp	*07:54 *07:06, 07:18-07:19	
22	205 bp 250 bp	800 bp	*07:84 *07:20, 07:96:01-07:96:02, 07:127, 07:263, 07:390	*02:49, 02:75, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03:01- 04:03:02, 04:06, 04:16, 04:80, 04:147, 04:160, 04:171, 04:190, 06:70, 06:132:01-06:132:02, 15:25, 15:62, A*01:110, A*11:135
23⁷	155 bp 185 bp	1070 bp	*07:23 *07:21	
24⁷	135 bp	1070 bp	*07:25, 07:404	A*03:01:46, A*24:02:62, A*25:27:02, A*68:01:12
25⁵	105 bp 150 bp	1070 bp	*07:46, 07:356 *07:30	B*56:08 ^w , B*56:14
26⁵	100 bp 250 bp 300 bp	1070 bp	*07:32N *07:55N *07:31:01-07:31:02, 07:177	*06:02:23, 12:03:10, 16:02:11
27	130 bp	1070 bp	*07:37, 07:69, 07:176, 07:307	*04:01:43, 05:01:17, 05:09:02, 08:15:02, B*07:02:43, B*07:33:03, B*35:08:04
28	175 bp 260 bp	800 bp	*07:44 *07:35, 07:47, 07:352	
29	255 bp	1070 bp	*07:36, 07:42, 07:355	
30^{5,7}	60 bp 260 bp	1070 bp	*07:227N	*04:66
31	415 bp	1070 bp	*07:39-07:40, 07:177, 07:210 ^w , 07:238 ^w , 07:328 ^w , 07:335	
32⁵	115 bp 155 bp 245 bp	1070 bp	*07:134 *07:189 *07:07, 07:09, 07:49, 07:76:01- 07:76:02, 07:210, 07:238, 07:247, 07:315, 07:328, 07:403, 07:406	*06:29 *02:14, 04:42:01- 04:42:02, 05:43, 06:02:01:01-06:02:01:03, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:31, 06:02:33-06:02:43, 06:04- 06:10, 06:12-06:51,

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Lot-specific Information

	285 bp		*07:60, 07:79	06:53:01-06:75, 06:78-06:121, 06:123, 06:125-06:131, 06:133-06:146, 06:148-06:149, 15:23, 15:63, 17:20, 18:01-18:08, B*08:17, B*08:47 *03:39, 03:67, B*08:39
33	205 bp 230 bp	1070 bp	*07:66 *07:82	
34^{5,7}	105 bp 270 bp	1070 bp	*07:67 *07:70	
35⁶	320 bp 360 bp	1070 bp	*07:72 *07:71	
36⁶	265 bp	800 bp	*07:20, 07:64, 07:73, 07:92, 07:96:01-07:96:02, 07:172:01-07:172:02, 07:390	*18:04
37⁷	225 bp 265 bp	1070 bp	*07:121Q *07:38:01-07:38:02, 07:63, 07:68, 07:260, 07:302	*05:111, 08:38, B*07:77, B*07:193, B*40:60, B*40:245
38⁶	135 bp	1070 bp	*07:65	
39⁵	100 bp 195 bp 255 bp	800 bp	*07:74 *07:308 *07:59	
40^{5,7}	120 bp 205 bp 440 bp	1070 bp	*07:235Q *07:62 *07:07, 07:09, 07:76:01-07:76:02, 07:78, 07:315, 07:328, 07:406	*06:17, 18:01-18:09
41	140 bp 170 bp 255 bp	1070 bp	*07:91 *07:234 *07:88	
42⁵	100 bp 205 bp 250 bp	1070 bp	*07:15, 07:207 *07:77, 07:93 *07:123, 07:173, 07:294	*02:02:28, B*07:02:43, B*07:33:03, B*35:15:02 B*07:02:43, B*07:33:03, B*08:01:25, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*39:09:03, B*57:01:18, B*58:01:17
43^{5,6}	105 bp 140 bp 165 bp	800 bp	*07:94, 07:183 *07:99 *07:80, 07:189, 07:339	
44⁶	165 bp 195 bp	1070 bp	*07:98N *07:65, 07:77	
45⁷	240 bp 475 bp	1070 bp	*07:245 *07:95, 07:342	*04:34, 04:122, B*35:178, B*73:01-73:02
46⁶	315 bp 350 bp 420 bp	1070 bp	*07:202 *07:90 *07:152N	
47⁶	200 bp 255 bp 420 bp 455 bp	1070 bp	*07:86 *07:222, 07:375 *07:152N *07:97	

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Lot-specific Information

48	155 bp 220 bp 255 bp 400 bp	1070 bp	*07:122, 07:373 *07:87 *07:222, 07:375 *07:85	
49	155 bp	800 bp	*07:101, 07:148, 07:161	*04:129, 05:42, 05:46, 06:67, 08:05, 08:21, 12:127, 17:05
	230 bp		*07:100, 07:259, 07:316, 07:338	*01:17, 01:21, 01:23
50⁵	425 bp	800 bp	*07:124, 07:155	
51⁵	65 bp 235 bp 285 bp	1070 bp	*07:126 *07:121Q *07:117	
52⁵	65 bp 205 bp 280 bp	1070 bp	*07:203 *07:118 *07:106	
53⁵	110 bp 155 bp	1070 bp	*07:140, 07:151, 07:154 *07:122, 07:373	B*08:01:25, B*37:04:02
54⁵	120 bp 235 bp 340 bp 370 bp	1070 bp	*07:153, 07:324 *07:64, 07:374, 07:402 *07:125, 07:356 *07:129	B*51:142
55	160 bp 210 bp 290 bp 530 bp	1070 bp	*07:179, 07:234 *07:252 *07:132 *07:343	*06:07 A*11:179
56	210 bp 255 bp	1070 bp	*07:150Q *07:123, 07:143, 07:173, 07:294	B*07:02:43, B*07:33:03, B*08:01:25, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*39:09:03, B*57:01:18, B*58:01:17
57⁵	70 bp 175 bp	800 bp	*07:01:25 *07:130	*05:01:17, 05:09:02, 05:17, 08:15:02
	230 bp		*07:259	
58⁵	80 bp	1070 bp	*07:137:01-07:137:02 *07:186, 07:212, 07:265 *07:164N	*03:162, 03:220, B*38:43, B*49:29, B*51:181
59⁶	450 bp 200 bp	1070 bp	*07:81, 07:145, 07:168, 07:191N	B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*39:09:03, B*57:01:18, B*58:01:17
60	130 bp	1070 bp	*07:165, 07:241, 07:265, 07:304, 07:307	*02:02:28, 03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 06:02:23, 08:15:02, 12:03:10, B*07:02:43, B*07:33:03
	305 bp 370 bp		*07:147 *07:180	
61	245 bp 405 bp	1070 bp	*07:120	*14:65

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Lot-specific Information

62	200 bp 280 bp	1070 bp	*07:84, 07:205 *07:106	A*26:101
63	270 bp 320 bp	800 bp	*07:24, 07:218, 07:301 *07:198N, 07:202	
64	135 bp 230 bp	1070 bp	*07:69 *07:192, 07:316, 07:338	*01:17, 01:21, 01:23
65⁷	150 bp	1070 bp	*07:136, 07:264N	
66⁷	150 bp 180 bp 225 bp	1070 bp	*07:136 *07:128, 07:232 *07:279	
67	180 bp 215 bp	1070 bp	*07:285 *07:393N	
68⁵	75 bp 230 bp 260 bp	1070 bp	*07:381 *07:149 *07:133, 07:242	*03:178
69	180 bp	1070 bp	*07:171, 07:397	
70⁷	220 bp 405 bp	1070 bp	*07:131:01-07:131:02, 07:194, 07:368 *07:61N	
71⁵	120 bp 240 bp	1070 bp	*07:347N *07:29, 07:177, 07:184, 07:248	*03:04:19, 03:113, B*07:02:43, B*07:33:03
72⁵	120 bp 290 bp	1070 bp	*07:22, 07:137:01-07:138 *07:250	*02:02:28, 06:02:23, 12:03:10, A*33:03:09, A*68:01:12, B*39:09:03
73	185 bp	1070 bp	*07:107, 07:224, 07:349	*06:22, 16:31, B*15:193
74⁷	210 bp 355 bp	1070 bp	*07:33N, 07:293 *07:80	
75	140 bp	1070 bp	*07:116, 07:329N	
76	280 bp	1070 bp	*07:102	
77⁷	240 bp	1070 bp	*07:166, 07:220, 07:348	*03:211:02, B*73:01-73:02
78	435 bp	1070 bp	*07:01:13, 07:68, 07:76:02, 07:199:01-07:199:02	*02:02:13, 02:02:29, 06:101 ^w , 06:127:01-06:127:02, 06:136, 06:144, 12:02:11, 18:01 ^w -18:04 ^w , 18:06 ^w -18:09 ^w
79	375 bp	1070 bp	*07:256	
80	155 bp 315 bp	1070 bp	*07:350N	
81	150 bp	1070 bp	*07:231	*16:10
82⁶	170 bp 215 bp	1070 bp	*07:288 *07:393N	
83⁷	250 bp	1070 bp	*07:361	
84	130 bp 185 bp	1070 bp	*07:386 *07:107, 07:224	*06:22, 16:31, B*15:193
85	200 bp	1070 bp	*07:83	
86	135 bp	1070 bp	*07:58	
87	175 bp 275 bp	1070 bp	*07:339 *07:340	

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88	285 bp	1070 bp	*07:407	
89⁵	75 bp	1070 bp	*07:229, 07:387	*12:131
90	140 bp	1070 bp	*07:102, 07:351	*03:137, 03:182, B*07:13, B*54:02
91	160 bp	1070 bp	*07:153, 07:324	
92⁵	105 bp 170 bp	1070 bp	*07:104N *07:119	B*15:272N, B*40:286N B*07:87, B*27:55
93⁸	-	-	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*07 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*07 alleles will be amplified by primer mixes 2, 3, 6, 8 to 14, 16 to 20, 22, 26, 27, 30, 32, 36, 37, 40, 42, 45, 49, 55, 57, 58, 60, 61, 64, 68, 71 to 73, 77, 78, 80, 81, 84, 89 and 90. In addition, a few HLA-A and HLA-B alleles will be amplified by primer mixes 2, 4, 6 to 8, 10 to 12, 14, 16, 18, 20, 22, 24, 25, 27, 32, 37, 42, 45, 53 to 56, 58 to 60, 62, 71 to 73, 77, 84, 90 and 92.

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

⁶Primer mixes 19, 35, 36, 38, 43, 44, 46, 47, 59 and 82 have a tendency to giving rise to primer oligomer formation.

⁷Primer mixes 13, 15, 17, 20, 23, 24, 30, 34, 37, 40, 45, 65, 66, 70, 74, 77 and 83 may have tendencies of unspecific amplifications.

⁸Primer mix 93 contains a negative control, which will amplify more than 95% of HLA amplicons as well as 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 and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

'w', might be weakly amplified.

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Lot-specific Information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	245	290	110	185	70	100	190	285	215	185	285	130
PCR product	425				145			505	425		305	
					245							
Length of int. pos. control ¹	800	800	800	1070	800	1070	1070	1070	800	1070	800	1070
5'-primer(s) ²	47	368	270	368	47	540	363	355	47	368	355	512
	5'-Agg 3'	5'-gTA 3'	5'-AAC 3'	5'-gTC 3'	5'-Agg 3'	5'-gAC 3'	5'-AAT 3'	5'-CCT 3'	5'-Agg 3'	5'-gTT 3'	5'-TCA 3'	5'-gTg 3'
	648			368	512			992			365	
	5'-CAC 3'			5'-gTC 3'	5'-gTT 3'			5'-TAA 3'			5'-gAC 3'	
											385	
											5'-ggT 3'	
3'-primer(s) ³	302	618	341	512	121	601	512	601	90	512	618	601
	5'-ggC 3'	5'-CT 3'	5'-CgT 3'	5'-CCA 3'	5'-ggC 3'	5'-CTT 3'	5'-CCA 3'	5'-CTC 3'	5'-Ag 3'	5'-CCA 3'	5'-CT 3'	5'-CTT 3'
	853			513	539			1016	302			
	5'-CAT 3'			5'-TCT 3'	5'-TCT 3'			5'-CAC 3'	5'-ggT 3'			
					616							
					5'-CgT 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.	85	535	80	240	130	120	220	145	100	205	155	135
PCR product			290			230	465	170	225	250	185	
			460					190				
Length of int. pos. control ¹	1070	1070	1070	800	1070	800	800	1070	800	800	1070	1070
5'-primer(s) ²	289	270	47	419	512	368	47	463	368	134	199	524
	5'-Agg 3'	5'-AAg 3'	5'-Agg 3'	5'-gTT 3'	5'-gTT 3'	5'-gTC 3'	5'-Agg 3'	5'-TgA 3'	5'-gTC 3'	5'-CCA 3'	5'-gTT 3'	5'-CCA 3'
	1049		369			3 rd I		486	5 th I	176	504	
	5'-g 3'		5'-TAC 3'			5'-Cgg 3'		5'-TAC 3'	5'-gTC 3'	5'-gCC 3'	5'-CAC 3'	
			1049					490				
			5'-C 3'					5'-CgA 3'				
								512				
								5'-gTg 3'				
3'-primer(s) ³	343	512	337	618	601	445	97	618	427	341	341	618
	5'-T 3'	5'-CCA 3'	5'-CTT 3'	5'-CT 3'	5'-CTT 3'	5'-ggA 3'	5'-gTA 3'	5'-CT 3'	5'-gTg 3'	5'-CgT 3'	5'-CgT 3'	5'-CT 3'
	343	513	616			559	341		1043		618	
	5'-g 3'	5'-TCT 3'	5'-TgT 3'			5'-CTC 3'	5'-Cgg 3'		5'-CAA 3'		5'-CT 3'	
	1087		1087			668						
	5'-AgC 3'		5'-AgT 3'			5'-TgA 3'						
						779						
						5'-CTA 3'						
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

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Lot-specific Information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product	105	100	130	175	255	60	415	115	205	105	320	265
		300		260		260		155	230	270	360	
								245				
								285				
Length of int. pos. control ¹	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	800
5'-primer(s) ²	206	361	193	390	122	124	47	97	431	388	47	47
	5'-AgA 3'	5'-AgT 3'	5'-CCA 3'	5'-gAA 3'	5'-CCA 3'	5'-gCT 3'	5'-Agg 3'	5'-TCg 3'	5'-CgT 3'	5'-CCA 3'	5'-Agg 3'	5'-Agg 3'
	419	411	539	410	410	322			688	554		
	5'-gTC 3'	5'-TAg 3'	5'-gCg 3'	5'-gTg 3'	5'-gTT 3'	5'-gCC 3'			5'-CCA 3'	5'-ggT 3'		
		560		486								
		5'-CAC 3'		5'-TAC 3'								
3'-primer(s) ³	270	618	289	618	341	341	289	172	618	618	197	142
	5'-TAC 3'	5'-CT 3'	5'-AgC 3'	5'-CT 3'	5'-CgT 3'	5'-CgT 3'	5'-AgT 3'	5'-CAT 3'	5'-CT 3'	5'-CT 3'	5'-gAT 3'	5'-TgC 3'
	527		618		618			212	853		235	
	5'-CCC 3'		5'-CT 3'		5'-CT 3'			5'-gCC 3'	5'-CAT 3'		5'-CTg 3'	
								302				
								5'-ggT 3'				
								341				
								5'-Tgg 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	48
Length of spec. PCR product	225	135	100	120	140	100	105	165	240	315	200	155
	265		195	205	170	205	140	195	475	350	255	220
			255	440	255	250	165			420	420	255
											455	400
Length of int. pos. control ¹	1070	1070	800	1070	1070	1070	800	1070	1070	1070	1070	1070
5'-primer(s) ²	368	464	125	47	125	409	97	463	341	47	47	47
	5'-gTC 3'	5'-gCT 3'	5'-CgT 3'	5'-Agg 3'	5'-CgA 3'	5'-ggC 3'	5'-TCg 3'	5'-TgT 3'	5'-ggA 3'	5'-Agg 3'	5'-Agg 3'	5'-Agg 3'
	388		697	486	211	445	512	464	652		457	439
	5'-CCT 3'		5'-TCg 3'	5'-ACC 3'	5'-Agg 3'	5'-TCA 3'	5'-gTT 3'	5'-gCT 3'	5'-CCA 3'		5'-AgC 3'	5'-ATC 3'
			794		520	463		493				503
			5'-CTC 3'		5'-CgA 3'	5'-TgT 3'		5'-CTT 3'				5'-CCg 3'
					560							
					5'-CgA 3'							
3'-primer(s) ³	563	559	341	79	341	618	212	618	527	190	131	131
	5'-CgA 3'	5'-CgT 3'	5'-CgT 3'	5'-gTA 3'	5'-CgT 3'	5'-CT 3'	5'-gCC 3'	5'-CT 3'	5'-CCA 3'	5'-ggT 3'	5'-ggT 3'	5'-ggT 3'
	601		853	312	618		231		853	226	295	275
	5'-CTT 3'		5'-CAT 3'	5'-AgT 3'	5'-CT 3'		5'-Tgg 3'		5'-CAT 3'	5'-CAA 3'	5'-TCA 3'	5'-gCC 3'
	603			317			233			295	330	618
	5'-TTg 3'			5'-CgA 3'			5'-CCC 3'			5'-TCA 3'	5'-TgT 3'	5'-CT 3'
				563			578				618	
				5'-Cgg 3'			5'-TgT 3'				5'-CT 3'	
							613					
							5'-gCC 3'					
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

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Lot-specific Information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	155	425	65	65	110	120	160	210	70	80	200	130
PCR product	230		235	205	155	235	210	255	175	450		305
			285	280		340	290		230			370
						370	530					
Length of int. pos. control ¹	800	800	1070	1070	1070	1070	1070	1070	800	1070	1070	1070
5'-primer(s) ²	89 5'-gAA 3'	47 5'-Agg 3'	368 5'-gTC 3'	179 5'-gTC 3'	503 5'-CCg 3'	47 5'-Agg 3'	91 5'-ggg 3'	397 5'-gCg 3'	270 5'-AAT 3'	47 5'-Agg 3'	454 5'-ACT 3'	47 5'-Agg 3'
	176 5'-gCA 3'			317 5'-gCA 3'	540 5'-gAC 3'	648 5'-CAC 3'	173 5'-Cgg 3'	409 5'-ggC 3'	429 5'-gAA 3'	512 5'-gTT 3'	463 5'-TgA 3'	527 5'-TgA 3'
	429 5'-gAA 3'			458 5'-ggT 3'	553 5'-TgC 3'		211 5'-Agg 3'	450 5'-CTg 3'	485 5'-CAA 3'		464 5'-gCA 3'	
	440 5'-TTT 3'						232 5'-AgA 3'					
							992 5'-TAA 3'					
3'-primer(s) ³	289 5'-AgC 3'	299 5'-TCT 3'	394 5'-gCT 3'	341 5'-CgT 3'	618 5'-CT 3'	112 5'-CCA 3'	341 5'-CgT 3'	618 5'-CT 3'	299 5'-TCA 3'	327 5'-TTT 3'	618 5'-CT 3'	180 5'-TCC 3'
	289 5'-AgC 3'		563 5'-CgA 3'	3 rd I 5'-CTC 3'		218 5'-gCT 3'	1043 5'-CAg 3'		618 5'-CT 3'	544 5'-ggT 3'		246 5'-TAA 3'
	618 5'-CT 3'		614 5'-CAg 3'			244 5'-CTg 3'				559 5'-CAg 3'		618 5'-CT 3'
						727 5'-CCA 3'						
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	245	200	270	135	150	150	180	75	180	220	120	120
PCR product	405	280	320	230		180	215	230		405	240	290
						225		260				
Length of int. pos. control ¹	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	270 5'-AAg 3'	176 5'-gCC 3'	47 5'-Agg 3'	89 5'-gAA 3'	419 5'-gTC 3'	419 5'-gTC 3'	368 5'-gTC 3'	368 5'-gTC 3'	368 5'-gTC 3'	47 5'-Agg 3'	419 5'-gTA 3'	368 5'-gTg 3'
	355 5'-CCC 3'	185 5'-CAA 3'	385 5'-ggT 3'	193 5'-CCA 3'							538 5'-A.C 3'	538 5'-AgT 3'
		458 5'-ggT 3'		368 5'-gTC 3'								544 5'-gAA 3'
3'-primer(s) ³	385 5'-ggA 3'	341 5'-CgT 3'	146 5'-CCg 3'	289 5'-AgC 3'	530 5'-CCA 3'	530 5'-CCA 3'	505 5'-gCT 3'	403 5'-gCC 3'	506 5'-Tgg 3'	85 5'-CAg 3'	618 5'-CT 3'	618 5'-CT 3'
	559 5'-Cgg 3'	3 rd I 5'-CTC 3'	190 5'-ggT 3'	550 5'-CAT 3'	535 5'-CTA 3'	556 5'-gCT 3'	544 5'-gC 3'	557 5'-TgT 3'	512 5'-CAT 3'	85 5'-CAA 3'		
			202 5'-TCA 3'			604 5'-CgC 3'		589 5'-CTT 3'		100 5'-ggg 3'		
			618 5'-CT 3'							280 5'-CTA 3'		
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec. PCR product	185	210	140	280	240	435	375	155	150	170	250	130
		355						315		215		185
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	419	47	512	103	648	213	341	3 rd I	418	368	97	419
	5'-gTC 3'	5'-Agg 3'	5'-gTT 3'	5'-CCT 3'	5'-CAC 3'	5'-CCC 3'	5'-ggA 3'	5'-Cgg 3'	5'-Agg 3'	5'-gTC 3'	5'-TCg 3'	5'-gTC 3'
	1018											
	5'-gTg 3'											
3'-primer(s) ³	565	85	610	341	846	355	425	704	527	496	308	506
	5'-CAT 3'	5'-CAC 3'	5'-CTA 3'	5'-CgT 3'	5'-CAC 3'	5'-gAg 3'	5'-CgC 3'	5'-CCg 3'	5'-CCg 3'	5'-gAg 3'	5'-gCg 3'	5'-TgT 3'
	1055	90	614					862		544		565
	5'-TgC 3'	5'-Ag 3'	5'-CgT 3'					5'-CTT 3'		5'-gC 3'		5'-CAT 3'
		233										
		5'-CCC 3'										
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86	87	88	89	90	91	92
Length of spec. PCR product	200	135	175	285	75	140	160	105
			275					170
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	458	524	97	97	257	103	732	361
	5'-ggg 3'	5'-CCC 3'	5'-TCg 3'	5'-TCg 3'	5'-CCA 3'	5'-CCT 3'	5'-gAT 3'	5'-AgA 3'
3'-primer(s) ³	618	618	231	340	289	201	853	426
	5'-CT 3'	5'-CT 3'	5'-Tgg 3'	5'-gTT 3'	5'-AgC 3'	5'-CTC 3'	5'-CAT 3'	5'-TCC 3'
			332					488
			5'-TCC 3'					5'-CCA 3'
Well No.	85	86	87	88	89	90	91	92

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.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit²																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201438101	201438102	201552203	201552204	201438105	201438106	201438107	201438108	201438109	201438110	201438111	201438112	201438113	201552216	201438115	201438114
IHCW 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit²																				
				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	201438117	201438118	201438119	201438120	201438121	201438122	201438123	201438124	201438125	201438126	201438127	201438128	201438129	201438130	201438131	201438132
IHC 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit²																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201438133	201438134	201552235	201438136	201438137	201552238	201438139	201438140	201438141	201438142	201552243	201438144	201438145	201552246	201438147	201438148
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit ²																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201438149	201552250	201438151	201438152	201438153	201438154	201438155	201438156	201438157	201438158	201438159	201438160	201438161	201438162	201552263	201438164
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

CELL LINE VALIDATION SHEET																			
HLA-C*07 SSP subtyping kit ²																			
			Well																
			65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
			Prod. No.:	201552265	201438166	201552267	201552268	201552269	201552270	201438171	201438172	201438173	201438174	201438175	201552276	201552277	201552278	201438179	201438180
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **41Y**

Lot-specific Information

CELL LINE VALIDATION SHEET															
HLA-C*07 SSP subtyping kit²															
				Well											
				81	82	83	84	85	86	87	88	89	90	91	92
				Prod. No.:											
				201438181	201552282	201552283	201552284	201438185	201552286	201552287	201552288	201552289	201552290	201552291	201552292
	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	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: 41Y

Lot-specific Information

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.

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 5, 10, 11, 13, 15, 16, 18, 19, 23 to 31, 34 to 36, 38, 39, 41 to 44, 46 to 76 and 78 to 92 were available.

The specificities of the primers in primer solutions 5, 10, 11, 13, 15, 16, 18, 19, 24 to 27, 31, 36, 42 to 44, 47 to 50, 53 to 60, 63, 64, 68, 71, 72, 74, 78, 79, 81 and 89 to 91 were tested by separately adding one 5'-primer, respectively one 3'-primer.

In primer solutions 35, 46, 51, 61, 65 to 67, 69, 70, 73, 75, 80, 82, 83, 84, 87, 88 and 92 it was only possible to test the 5'-primer, the 3'-primer were not possible to test.

In primer solutions 23, 28 to 30, 34, 38, 39, 41, 52, 62, 76, 85 and 86 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 8, 11, 20, 22, 26, 33, 42, 44, 47 to 49, 53, 55 to 57, 59, 63, 71 one or two 5'-primers were not possible to test, and in primer solutions 4, 5, 9, 13, 14, 15, 18, 21, 25, 32, 37, 40, 43, 47, 48, 54, 58, 60, 63, 64, 68 and 74 one or two 3'-primers were not possible to test.

Additional primers in primer solutions 2, 8, 20, 21, 33, 37, 40 and 45 were tested by separately adding either one 5'-primer, one or two 3'-primers.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot-specific Information

101.615-24/04 – including *Taq* pol., IFU-01
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Lot No.: **41Y**

Lot-specific Information

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