

101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **9D5**

Lot-specific information

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**Olerup SSP® HLA-C high resolution
 for frequent alleles**

Product number:	101.707-12 – including <i>Taq</i> polymerase 101.707-12u – without <i>Taq</i> polymerase
Lot number:	9D5
Expiry date:	2019-01-01
Number of tests:	12
Number of wells per test:	95 + 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. 9D5.

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 HIGH RESOLUTION LOT (95V)**

The HLA-C High kit has been redesigned and improved with regards to allelic detection and discrimination. The kit resolution focuses on common and well documented (CWD) alleles¹.

The HLA-C high resolution specificity and interpretation tables have been updated with the HLA-C alleles described since the previous *Olerup SSP®* HLA-C high resolution for frequent alleles lot was made (**Lot No. 95V**). The kit design is based on IMGT/HLA database 3.23.0

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.

¹S. J. Mack¹, P. Cano², J. A. Hollenbach¹ et al.
 Common and well-documented HLA alleles: 2012 update to the CWD catalogue. *Tissue Antigens*, 2013, 81, 194–203



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

Well	5'-primer	3'-primer	rationale
3	Added	Added	5'-primer added for the C*08:99 allele, 3'-primer added for the C*01:27 allele.
5	-	Added	3'-primer added for the C*06:27 allele.
16	-	Added	3'-primers added for the C*07:104N and C*15:22 alleles.
17	-	Added	3'-primer added for the C*07:56:02 allele.
18	Added	-	5'-primer added for the C*03:14 allele.
19	Added	-	5'-primer added for the C*03:14 allele.
20	-	Added	3'-primer added for increased yield of the C*02:02:01 allele.
34	-	Added	3'-primer added for the C*04:27 allele.
36	Added	-	5'-primer added for the C*03:88 allele.
43	-	Added	3'-primers added for the C*06:27 and C*07:56:02 alleles.
49	Exchanged	Exchanged	Primer pair exchanged for the C*06:76:01-06:76:02 and C*12:04:01-12:04:02 alleles.
50	Added	Added	5'-primer added for the C*07:10 allele, 3'-primers added for the C*07:194 and C*07:61N alleles.
51	Added	-	5'-primers added for the C*07:32N and C*07:67 alleles.
55	-	Added	3'-primers added for the C*07:194, C*07:61N and C*07:72 alleles.
56	Added	-	5'-primer added for the C*07:10 allele.
58	Added	Added	Primer pair added for the C*04:82 allele.
59	Exchanged	Exchanged	Primer pair exchanged for the C*12:09 allele.
74	-	Added	3'-primer added for the C*01:27 allele.
78	Added	Added	Primer pair added for the C*07:349 allele.
80	Added	-	5'-primer added for the C*03:88 allele.
81	Added	Added	Primer pair added for the C*04:30 and C*08:102 alleles.
82	Added	Added	Primer pair added for the C*07:349 allele.
86	-	Added	3'-primer added for the C*07:72 allele.
88	Added	Added	Primer pair added for the C*08:22 allele, strength of control band has been optimized.
90	Added	Added	Primer pair added for the C*07:66 allele.
91	Added	-	5'-primer added for the C*07:67 allele.
92	Added	Added	Primer pair added for the C*07:419 allele.
93	-	Added	3'-primer added for the C*14:11 allele.

Changes in revision R01 compared to R00:

1. The C*14:17, 16:68 and C*16:88 alleles are amplified by primer mix 84. This has been corrected in the Specificity and Interpretation Tables.

Changes in revision R02 compared to R01:

1. Primer mix 18 does not amplify the C*03:28 and C*03:49 alleles. This has been corrected in the Specificity and Interpretation Tables.

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Well **96** 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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PRODUCT DESCRIPTION

HLA-C high resolution for frequent alleles SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the C*01:02:01 to C*18:10 alleles and will generate unique amplification patterns and have good resolution for all frequently encountered HLA-C genotypes currently recognized. All HLA-C alleles in the CWD2.0.0 catalogue give rise to unique amplification patterns¹.

¹S. J. Mack, P. Cano, J. A. Hollenbach et al. Common and well-documented HLA alleles: 2012 update to the CWD catalogue. *Tissue Antigens*, 2013, 81, 194–203

PLATE LAYOUT

Each HLA-C high resolution for frequent alleles test consists of 96 PCR reactions in a 96 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	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	93	94	95	NC

The 96 well PCR plate is marked with ‘HLA-C “HIGH”’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘9D5’.

Wells 1 to 95 - HLA-C high resolution primers.

Well 96 – Negative Control.

The PCR plates are heat-sealed with a PCR-compatible foil.

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.

INTERPRETATION

A few HLA-A and HLA-B alleles will be amplified by primer mixes 1, 2, 5, 6, 8, 10 to 13, 16 to 19, 21 to 23, 25, 28, 29, 31, 33 to 35, 37, 38, 40, 43, 44, 46, 48, 50, 52, 55 to 57, 59, 61, 70, 71, 77, 79 to 81, 87 and 91 due to the sharing of sequence motifs between HLA Class I loci.

For further details see Specificity Table.

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UNIQUELY IDENTIFIED ALLELES

All the HLA-C alleles, i.e. **C*01:02 to C*18:10**, recognized by the HLA Nomenclature Committee in January 2016^{1,2} will be amplified by the primers in the HLA-C high resolution for frequent alleles subtyping kit. All HLA-C alleles in the CWD2.0.0 catalogue give rise to unique amplification patterns³.

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

Alleles	Primer mix	Alleles	Primer mix
C*01:06, 01:11	3	C*06:08, 06:13	43
C*01:15, 01:20, 01:60	6	C*06:15-06:16N	78, 83
C*02:51, 02:57	31	C*07:22, 07:35, 07:404	56
C*03:06:01-03:06:02, 03:117	36	C*07:25, 07:137:01, 07:138, 07:352	56
C*03:09, 03:23, 03:287	18	C*07:30, 07:40	86
C*03:21-03:22Q, 03:116:01	18	C*07:33N, 07:51	55
C*03:34, 03:44	80	C*07:37, 07:54	2
C*03:37:01-03:37:02, 03:46	11	C*07:47-07:48	91
C*04:23, 04:31	88	C*12:06,12:81	65
C*05:10, 05:55	21	C*12:07 ,12:46N	16
C*05:14, 05:16, 05:19	37		

The HLA-C typing kit cannot distinguish the following silent mutations: the C*01:02:01-01:02:17, 01:02:19-01:02:31, 01:02:33 and 01:02:35-01:02:36 alleles, the C*01:12:01-01:12:02, 01:49:01-01:49:02 and 01:79:01-01:79:02 alleles, the C*02:02:01-02:02:03, 02:02:05-02:02:07, 02:02:09-02:02:11 and 02:02:14-02:02:20, 02:02:22-02:02:27 and 02:26:02-02:26:03 alleles, the C*02:02:30 and 02:26:01 alleles, the C*02:05:01-02:05:03 alleles, the C*02:06:01-02:06:02 alleles, the C*02:10:01:01-02:10:01:02 alleles, the C*02:27:01-02:27:02 alleles, the C*02:55:01-02:55:02 alleles, the C*03:02:01-03:02:07, 03:02:09 and 03:02:11-03:02:14 alleles, the C*03:03:01-03:03:20, 03:03:23-03:03:25 and 03:03:27-03:03:28 alleles, the C*03:04:01:01-03:04:14, 03:04:16-03:04:18, 03:04:20-03:04:24, 03:04:28-03:04:29, 03:04:31-03:04:33 and 03:04:35-03:04:49 alleles, the C*03:04:27 and 03:04:30 alleles, the C*03:06:01-03:06:02 alleles, the C*03:11:01-03:11:02 alleles, the C*03:37:01-03:37:02 alleles, the C*03:38:01-03:38:02 alleles, the C*03:40:01 and 03:40:03-03:40:04 alleles, the C*04:01:01:01-04:01:02, 04:01:04, 04:01:06, 04:01:08, 04:01:10-04:01:17, 04:01:19-04:01:21, 04:01:24, 04:01:27-04:01:28, 04:01:30-04:01:33, 04:01:35-04:01:42, 04:01:44-04:01:51, 04:01:53-04:01:67, 04:01:69-04:01:70 and 04:98:01-04:98:02 alleles, the C*04:01:05, 04:01:07, 04:01:09, 04:01:18, 04:01:22, 04:01:26, 04:01:68, 04:64:01-04:64:02 and 04:180:01 alleles, the C*04:15:01 and 04:15:03 alleles, the C*04:42:01-04:42:02 alleles, the C*05:01:01:01-05:01:11, 05:01:13-05:01:15, 05:01:19-05:01:21, 05:01:23, 05:01:25-05:01:26, 05:01:29-05:01:31 05:22:01-05:22:02 and 05:44:01-05:44:02 alleles, the C*05:01:16, 05:01:18 and 05:18:02-05:18:03 alleles, the C*05:04:01-05:04:02 alleles, the C*05:09:01 and 05:09:03 alleles, the C*05:64:01-05:64:02 alleles, the C*06:02:01:01-06:02:01:03, 06:02:03-06:02:07, 06:02:09-06:02:11, 06:02:13-06:02:15, 06:02:17-06:02:22, 06:02:24-06:02:37, 06:02:39-06:02:42, 06:02:44, 06:42:02, 06:43:02 and 06:106:01-06:106:02 alleles, the C*06:02:16, 06:02:43 and 06:127:01-06:127:02 alleles, the C*06:04:01-06:04:02 alleles, the C*06:53:01-06:53:02 alleles, the C*06:70:01-06:70:02 alleles, the C*06:132:01-06:132:02 alleles, 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,



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07:01:47-07:01:52 and 07:78:01-07:78:02 alleles, the C*07:01:05 and 07:01:36 alleles, the C*07:02:01:01-07:02:08, 07:02:10-07:02:31, 07:02:33-07:02:41, 07:02:43-07:02:62, 07:02:64, 07:02:66-07:02:71 and 07:38:01-07:38:02 alleles, the 07:17:01-07:17:02 alleles, the C*07:04:01-07:04:10 and 07:199:01-07:199:02 alleles, the C*07:26:01-07:26:02 alleles, the C*07:27:01-07:27:02 alleles, the C*07:29:01-07:29:02 alleles, the C*07:31:01-07:31:02 alleles, the C*07:56:01-07:56:02 alleles, the C*07:76:01-07:76:02 alleles, the C*07:96:01-07:96:02 alleles, the C*07:108:01-07:108:02 alleles, the C*07:141:01-07:141:02 alleles, the C*07:172:01-07:172:02 alleles, the C*08:01:01-08:01:06, 08:01:08-08:01:13, 08:01:15-08:01:18 and 08:16:02 alleles, the C*08:02:01:01-08:02:02, 08:02:04-08:02:06, 08:02:08-08:02:10 and 08:02:12 alleles, the C*08:03:01-08:03:03 alleles, the C*08:04:01-08:04:03 alleles, the C*12:02:01-12:02:05, 12:02:07, 12:02:09-12:02:10 and 12:02:13 alleles, the C*12:02:06, 12:02:08 and 12:02:12 alleles, the C*12:03:01:01-12:03:01:03, 12:03:03, 12:03:05-12:03:07, 12:03:11-12:03:12, 12:03:14-12:03:15, 12:03:17-12:03:18, 12:03:21-12:03:22, 12:03:25-12:03:29, 12:03:31, 12:03:33 and 12:03:35-12:03:37 alleles, the C*12:03:02, 12:03:08, 12:03:16 and 12:03:30 alleles, the C*12:03:19 and 12:03:32 alleles, the C*12:03:34:01-12:03:34:02 alleles, the C*12:10:01-12:10:02 alleles, the C*12:14:01 and 12:18:02, the C*12:14:02 and 12:18:01 alleles, the C*14:02:01, 14:02:04-14:02:07, 14:02:09 and 14:02:12-14:02:19 alleles, the C*15:02:01:01-15:02:08, 15:02:11-15:02:16, 15:02:19-15:02:20 and 15:02:23-15:02:24 alleles, the C*15:02:10 and 15:02:17 alleles, the C*15:02:18 and 15:02:22, the C*15:04:01-15:04:02 alleles, the C*15:05:01-15:05:08 and 15:05:10 alleles, the C*15:06:01-15:06:03 alleles, the C*15:10:02-15:10:03 alleles, the C*16:01:01:01-16:01:01:02, 16:01:03-16:01:04, 16:01:07-16:01:15 and 16:01:18-16:01:19 alleles, the C*16:01:05, 16:07:02 alleles, the C*16:02:01-16:02:10 and 16:02:12 alleles, C*16:04:01 and 16:04:03 alleles, and the C*17:01:01:01-17:01:03, 17:01:05-17:01:07 and 17:01:09-17:01:11 alleles.

¹HLA-C alleles listed on the IMGT/HLA web page 2016-January-19, release 3.23.0, 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>.

³S. J. Mack, P. Cano, J. A. Hollenbach et al. Common and well-documented HLA alleles: 2012 update to the CWD catalogue. *Tissue Antigens*, 2013, 81, 194–203

RESOLUTION IN HOMO- AND HETEROZYGOTES

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

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Lot-specific information
SPECIFICITY TABLE

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HLA-C high resolution for frequent alleles SSP typing

Specificities and sizes of the PCR products of the 95+1 primer mixes used for
 HLA-C high resolution for frequent alleles SSP typing

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C alleles ³	Other amplified HLA Class I alleles ⁴
1^{5,8}	90 bp	800 bp	*01:02:01-01:02:31, 01:02:33-01:02:36, 01:06-01:11, 01:13-01:20, 01:22-01:23, 01:25-01:33, 01:35, 01:38-01:48, 01:51-01:53, 01:56N-01:76, 01:80-01:85, 01:87-01:89N, 01:92-01:96, 01:98N-01:100, 01:103-01:113, 01:115-01:119, 03:86, 03:94, 03:99, 03:302, 05:107, 07:177, 15:102	B*40:243
2⁵	105 bp 215 bp	1070 bp	*04:05, 07:54 *01:05, 01:77, 05:111, 07:37, 07:216, 07:307, 14:08, 16:06	B*07:77, B*07:193
3^{5,6}	65 bp 100 bp 200 bp 225 bp 290 bp 365 bp	1070 bp	*08:99 *01:27 *01:06 *07:06, 07:18-07:19 *01:11 *15:13, 15:103	
4⁵	100 bp 200 bp	1070 bp	*02:34, 16:09 *01:07:01-01:07:02, 06:10, 06:43:01, 14:24:02	
5⁶	130 bp 155 bp 215 bp 275 bp 300 bp	1070 bp	*06:27, 16:47 *02:02:28, 03:03:29, 03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 05:17, 06:02:23, 07:03, 07:17:01-07:17:02, 07:23, 07:140-07:141:02, 07:304, 07:307, 08:15:02, 08:72:02, 12:03:10, 12:13, 16:02:11 *01:08, 12:19 *06:27, 16:47 *06:02:23, 07:31:01-07:31:02, 07:177, 12:03:10, 16:02:11	A*26:55, A*29:27, B*18:90 B*39:09:03, B*58:01:17
6^{5,7}	105 bp 150 bp 190 bp 210 bp 265 bp	800 bp	*03:24, 15:90 *01:20 *01:60, 07:05, 07:177, 07:364 *01:04, 01:09, 06:23 *01:15, 03:33	B*27:36, B*48:21, B*48:26 B*15:129, B*15:342, B*27:25, B*27:115,
7	200 bp	1070 bp	*02:02:01-02:02:03, 02:02:05-02:09, 02:11-02:13, 02:15-02:28, 02:30-02:40:02, 02:42-02:57, 02:59-02:88, 02:90-02:112	
8⁵	100 bp	800 bp	*02:03, 02:16:02, 02:18, 03:03:22, 03:04:34, 06:07	B*27:34, B*35:01:30^w, B*40:02:07, B*40:06:02, B*51:01:52^w,

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				B*57:01:16^w, B*57:03:02^w
	135 bp 595 bp		*02:20 *07:179	
9	140 bp	1070 bp	*02:04, 02:14:01-02:14:02, 02:21, 02:107, 04:42:01-04:42:02, 04:198, 04:220, 05:43, 06:05, 07:02:09, 08:37, 08:119, 12:10:01- 12:10:02, 12:16, 12:115, 12:147, 14:41, 15:23, 15:63, 16:11, 16:21, 16:80	
10^{5,6,8,9}	105 bp 130 bp 270 bp	800 bp	*07:46, 07:356 *01:115, 02:07, 02:97, 16:10, 16:67 *06:161, 08:06, 16:33	B*56:08, B*56:14
11⁵	75 bp 160 bp 505 bp	800 bp	*02:08, 02:42, 03:11:01-03:11:02, 03:18:02, 03:37:01-03:37:02, 03:64:01, 03:301, 06:03:01, 07:314:02 12:03:23, 15:10:02-15:10:03, 15:113 *02:104, 03:46, 03:248, 04:16, 15:100 *07:06, 07:343	B*58:74
12^{5,8}	70 bp 280 bp	800 bp	*07:53, 07:216 *02:02:01-02:02:03, 02:02:05-02:02:29, 02:03, 02:04 ^w , 02:05:01-02:13, 02:14:01 ^w , 02:15- 02:25Q, 02:26:02-02:32, 02:34-02:40:02, 02:42- 02:86, 02:88-02:106, 02:108-02:112, 03:02:01- 03:02:09, 03:02:11-03:02:14, 03:04:01:01- 03:04:25, 03:04:27-03:10, 03:14-03:17, 03:19, 03:23-03:29, 03:32-03:38:02, 03:40:01-03:42, 03:44-03:48, 03:51, 03:54, 03:57:01-03:57:02, 03:60, 03:63-03:64:01, 03:65, 03:70-03:74, 03:77-03:78, 03:80, 03:82, 03:84, 03:87:01- 03:87:02, 03:89-03:95, 03:98, 03:100-03:101, 03:104-03:111, 03:113-03:115, 03:117-03:118, 03:121N, 03:123, 03:125, 03:128-03:131, 03:134-03:136, 03:138-03:140, 03:143, 03:145- 03:149, 03:153-03:155, 03:157, 03:159, 03:162- 03:164, 03:169Q, 03:172-03:174, 03:178- 03:181, 03:183-03:184:02, 03:186:01-03:186:02, 03:190-03:191, 03:193-03:194, 03:197-03:201N, 03:208N-03:213, 03:215-03:216, 03:218-03:219, 03:221-03:222, 03:224N-03:226, 03:232-03:236, 03:238-03:240, 03:244Q-03:250, 03:252, 03:255-03:261, 03:263, 03:265N-03:266, 03:269-03:270, 03:277N, 03:278 ^w , 03:279- 03:283, 03:286-03:287, 03:292-03:294, 03:296- 03:303, 03:305-03:306, 03:309-03:311, 04:03:01-04:03:02, 04:06, 04:16, 04:80, 04:107, 04:147, 04:160, 04:171, 05:58:01, 06:03:01, 06:132:01-06:132:02, 07:96:01-07:96:02, 07:314:02, 12:03:23, 15:02:01:01-15:02:20, 15:02:22-15:05:08, 15:05:10-15:09, 15:10:02- 15:11, 15:13, 15:15-15:19, 15:21-15:22, 15:24- 15:35, 15:37-15:60, 15:62, 15:64-15:106, 15:108-15:121, 16:34, 16:70	B*40:164, B*51:01:28, B*58:74
13	215 bp	1070 bp	*03:02:01-03:02:14, 03:14-03:15, 03:33, 03:36, 03:40:01-03:40:04, 03:42-03:43:02, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108, 03:110,	B*15:96

101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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Lot No.	Allele	Product	Allele	Product
			03:119, 03:121N, 03:132, 03:139, 03:146, 03:169Q, 03:175, 03:190, 03:194, 03:197- 03:201N, 03:216, 03:221-03:222, 03:224N- 03:226, 03:238, 03:240, 03:245, 03:248, 03:258, 03:264, 03:271, 03:279, 03:298-03:301, 04:12, 07:133, 07:242, 07:330	
14	280 bp	800 bp	*03:03:01-03:03:20, 03:03:22-03:03:29, 03:11:01-03:11:02, 03:13:01-03:13:02, 03:18:02, 03:20N-03:22Q, 03:30-03:31, 03:43:01- 03:43:02, 03:49-03:50, 03:52-03:53, 03:55- 03:56, 03:58-03:59, 03:61-03:62, 03:66, 03:67 ^w , 03:68-03:69, 03:75-03:76, 03:79, 03:81, 03:83, 03:85-03:86, 03:88, 03:96-03:97, 03:102-03:103, 03:112, 03:116:01-03:116:02, 03:119-03:120, 03:122, 03:124, 03:126-03:127, 03:132-03:133, 03:141-03:142, 03:150-03:152, 03:158, 03:160- 03:161, 03:165, 03:167-03:168, 03:171, 03:175- 03:177, 03:185, 03:187-03:189N, 03:192, 03:196, 03:202-03:207, 03:214, 03:217, 03:220, 03:223, 03:227-03:230, 03:237, 03:241-03:243, 03:251, 03:253-03:254, 03:262, 03:267-03:268, 03:271-03:276, 03:284-03:285, 03:288-03:291, 03:295 ^w , 03:304, 03:307-03:308, 03:312, 15:12	
15	275 bp	1070 bp	*03:03:01-03:04:49, 03:06:01-03:11:02, 03:14, 03:18:01-03:24, 03:26, 03:28-03:32, 03:34, 03:37:01-03:40:04, 03:42-03:57:02, 03:59, 03:61-03:70, 03:72-03:83, 03:85, 03:87:01- 03:88, 03:90-03:93, 03:96, 03:98, 03:100- 03:107, 03:109, 03:111-03:112, 03:114-03:120, 03:122-03:131, 03:133-03:134, 03:136-03:138, 03:140-03:145, 03:147-03:150, 03:152-03:153, 03:155-03:164, 03:166, 03:168, 03:170-03:176, 03:179-03:189N, 03:191-03:193, 03:195-03:196, 03:202-03:215, 03:217-03:220, 03:223, 03:227- 03:237, 03:239-03:244Q, 03:246-03:247, 03:250, 03:252-03:257, 03:259, 03:261, 03:262 [?] , 03:263, 03:265N-03:266, 03:268-03:270, 03:272-03:285, 03:287-03:291, 03:294-03:295, 03:297, 03:303-03:312	
16⁵	110 bp 240 bp 275 bp 370 bp	1070 bp	*07:104N, 12:46N *03:53, 12:07, 12:17 *01:65, 03:05, 03:13:01-03:13:02, 03:17, 03:25, 03:27, 03:35, 03:71, 03:167, 03:178, 03:198, 03:249, 03:267, 03:271, 03:292, 03:296, 03:302, 04:212, 05:86, 07:133, 07:242, 07:330 *15:22, 15:37, 15:55, 15:58, 15:65, 15:72, 15:102	B*15:272N, B*40:286N B*35:310 B*15:96
17^{5,8}	110 bp	1070 bp	*01:118, 03:08, 03:29, 03:31, 03:246, 06:44, 07:01:01-07:01:24, 07:01:26-07:01:52, 07:06- 07:07, 07:09, 07:16, 07:18-07:20, 07:22, 07:24, 07:26:01-07:26:02, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:60, 07:65, 07:70-07:71, 07:73, 07:77-07:78:02,	B*07:259

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180 bp				B*07:93, B*08:39, B*35:101:02, B*35:195, B*35:211, B*38:27, B*51:76, B*54:34
				B*27:05:27
				B*15:96
18^{5,6}	90 bp 120 bp 185 bp 225 bp 255 bp	1070 bp	*03:21, 03:142, 03:287 *03:14, 03:162, 03:220, 03:261, 07:133, 07:330 *07:21 *03:23 *03:09, 03:22Q, 03:42, 03:71, 03:89, 03:116:01, 03:119, 03:139, 03:169Q, 03:199, 03:240, 03:249, 03:267, 03:292, 03:300, 04:212, 05:86, 07:36, 07:133, 07:242, 07:330, 07:355	B*56:37
19^{5,7,11}	115 bp 265 bp	1070 bp	*03:14, 03:36, 03:77, 03:162, 03:187, 03:220, 03:261, 03:296, 04:212, 07:133, 07:330	B*15:96

101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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	305 bp		*03:13:01-03:13:02, 03:35, 03:178, 03:198, 03:267, 03:292, 04:212, 05:86, 07:133, 07:242, 07:330	
	540 bp		*03:32, 03:45, 03:136, 03:297, 04:80, 04:100, 04:178, 06:14, 06:143, 07:10, 07:43, 07:196, 15:25, 15:62	B*15:357, B*35:178, B*35:282
20⁷	240 bp	800 bp	*03:15, 03:32, 03:45, 03:60, 03:136, 03:297, 04:212, 07:133, 07:242, 07:330	
	265 bp		*02:02:01-02:02:03, 02:02:05-02:02:29, 02:03, 02:05:01-02:13, 02:15-02:25Q, 02:26:02-02:26:03, 02:28-02:40:02, 02:42-02:64, 02:66-02:86, 02:88-02:106, 02:108-02:112, 03:07, 03:10, 03:15, 03:29, 03:45, 03:163, 03:268, 03:297, 04:03:01-04:03:02, 04:06, 04:16, 04:80, 04:107, 04:147, 04:160, 04:171, 05:13, 05:58:01, 06:03:01, 06:132:01-06:132:02, 15:02:01:01-15:02:20, 15:02:22-15:05:08, 15:05:10-15:06:03, 15:08-15:09, 15:10:02-15:13, 15:15-15:19, 15:21-15:22, 15:24, 15:26-15:35, 15:37-15:42, 15:44-15:60, 15:62, 15:64-15:84Q, 15:86-15:106, 15:108-15:121, 16:70	
	195 bp	800 bp	*01:14, 15:104	
21⁶	225 bp		*03:30, 03:65, 04:18, 04:52, 04:55, 05:55, 12:58, 14:10, 15:12	
	250 bp		*04:19	
	280 bp		*03:50	
			*03:251, 04:120, 05:10, 05:64:01-05:64:02, 08:19, 08:44, 08:61, 08:82, 08:101, 08:126	B*44:148, B*58:76
22⁵	80 bp	1070 bp	*01:97, 03:02:01-03:02:14, 03:15-03:16, 03:33, 03:36, 03:40:01, 03:40:03-03:40:04, 03:42-03:43:01, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108, 03:110, 03:121N, 03:132, 03:139, 03:146, 03:169Q, 03:175, 03:194, 03:197-03:201N, 03:216, 03:221-03:222, 03:224N-03:226, 03:238, 03:240, 03:245, 03:248, 03:258, 03:264, 03:271, 03:279, 03:298-03:301, 04:54, 06:02:08, 07:02:32, 07:242, 12:03:20, 14:02:01, 14:02:03-14:16, 14:18-14:24:01, 14:25, 14:27-14:53, 14:56-14:73, 15:77, 16:01:06	B*15:78:03
	140 bp		*01:97, 03:17, 03:71, 03:249, 03:271, 03:302, 04:37, 04:230, 06:02:08, 06:34:02, 12:03:20, 14:02:01, 14:02:03-14:07N, 14:10-14:16, 14:18-14:27, 14:29-14:53, 14:55-14:73, 16:01:06	
23	150 bp	800 bp	*01:14, 02:02:13, 02:02:29, 03:07, 03:10, 03:15, 03:29, 03:45, 03:163, 03:268, 03:297, 04:01:23, 05:01:12, 05:29:02, 06:02:01:01-06:02:01:03, 06:02:03-06:04:02, 06:06-06:10, 06:12-06:76:01, 06:77-06:81, 06:83-06:146, 06:148-06:173, 07:07, 07:09, 07:76:01-07:76:02, 07:315, 07:328, 07:406, 12:04:01, 14:12, 14:49, 15:02:10, 15:02:17, 15:99, 17:01:01:01-17:01:03, 17:01:05-17:21, 17:23-17:31, 18:01-18:10	B*15:277, B*35:222, B*42:22
	240 bp		*05:13	
24	250 bp	1070 bp	*01:02:01-01:07:01, 01:08-01:21, 01:23-01:34, 01:36-01:119, 02:02:01-02:02:03, 02:02:05-	

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25	170 bp	1070 bp	*01:97, 03:16, 03:41:01, 03:113, 03:151, 03:293, 04:01:01:01-04:01:04, 04:01:06, 04:01:08, 04:01:10-04:01:17, 04:01:19-04:01:21, 04:01:23-04:01:25, 04:01:27-04:01:67, 04:01:69-04:01:70, 04:03:01-04:04:01, 04:05-04:20, 04:23-04:49, 04:51-04:63, 04:65-04:76, 04:78-04:94:01, 04:95N-04:98:02, 04:100-04:119, 04:121-04:155, 04:157-04:159, 04:161-04:174, 04:176-04:177, 04:179, 04:180:02-04:200, 04:202-04:211, 04:213-04:222, 04:224-04:230, 06:02:08, 06:34:02, 07:02:32, 12:03:20, 14:02:01, 14:02:03-14:02:10, 14:02:12-14:16, 14:18-14:31, 14:33-14:43, 14:45-14:67, 14:69-14:73, 15:77, 16:01:06, 18:01-18:10	B*13:13:02, B*15:01:17, B*15:78:03
26	145 bp	800 bp	*04:07, 04:27, 04:89, 04:153, 05:78, 07:64, 07:402, 15:36	
	170 bp		*02:09	
27⁸	135 bp	1070 bp	*01:35, 01:107, 04:08, 04:34, 04:147, 04:212, 14:20, 18:08	
	175 bp		*04:30, 15:15, 15:77	
	220 bp		*04:09N	
28	200 bp	800 bp	*04:13, 04:58, 04:160, 07:08, 07:108:01-07:108:02, 08:101	B*47:09
29	130 bp	800 bp	*03:05, 03:13:02, 03:25, 03:27, 03:135, 03:167, 03:296, 04:15:01, 04:15:03, 14:09	B*15:78:03
	190 bp		*02:15	B*07:221



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		290 bp			*07:14		
30		155 bp		1070 bp	*05:01:01:01-05:01:15, 05:01:17, 05:01:19-05:01:31, 05:03-05:08, 05:10-05:11, 05:13-05:16, 05:19-05:51Q, 05:53-05:86, 05:88-05:96, 05:98-05:102, 05:104-05:105, 05:108-05:113N, 05:116-05:127, 07:41, 08:02:01:01-08:02:12, 08:04:01-08:05, 08:07, 08:12-08:13, 08:17-08:19, 08:23, 08:25, 08:28-08:32, 08:34, 08:37, 08:43, 08:45, 08:47-08:49, 08:52N-08:53, 08:55N, 08:57, 08:62-08:63, 08:67-08:71, 08:73-08:77, 08:90, 08:92-08:94, 08:100, 08:103-08:104, 08:107-08:108, 08:110-08:116, 08:120, 08:123, 08:125-08:126		
31		150 bp		800 bp	*01:13, 02:51, 03:87:01-03:87:02, 04:223, 05:09:01-05:09:03, 05:17, 05:52, 07:130, 08:15:01-08:15:02, 08:51, 08:73, 12:12, 12:144, 16:27	B*15:33, B*15:248, B*35:08:02, B*35:08:05	
		285 bp			*02:57, 04:40, 06:123, 07:45	B*38:23, B*39:73	
32⁵		120 bp 180 bp 210 bp		1070 bp	*05:03, 07:52 *03:48 *16:07:01		
33		190 bp 225 bp		1070 bp	*04:28 *05:04:01-05:04:02, 05:103, 06:129, 07:68, 07:260, 07:302, 08:09, 08:11, 08:59, 08:113	B*15:337, B*18:83, B*58:76	
34		220 bp 275 bp		1070 bp	*03:231 ^w , 04:10, 04:11 ^w , 04:36 ^w , 04:55 ^w , 04:153, 04:169, 04:210, 04:214 ^w , 04:215N, 05:78, 15:36 *03:251, 04:27, 05:05, 05:07N, 08:08:01-08:08:02, 08:62, 08:82	A*02:425, A*02:519, A*29:10, A*68:69, B*14:32, B*15:337, B*18:83, B*44:148	
35		265 bp		1070 bp	*04:120, 05:01:01:01-05:01:31, 05:03-05:04:02, 05:06-05:08, 05:10-05:16, 05:18:01-05:51Q, 05:53-05:60, 05:62-05:81, 05:83-05:84, 05:86-05:106, 05:108-05:127, 06:129, 07:04:01-07:04:10, 07:11-07:12, 07:41, 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, 07:365, 07:378, 07:394-07:395, 07:403, 07:406, 07:420, 07:426, 07:428, 07:447, 07:459, 07:466-07:467, 07:480, 07:487, 08:01:01-08:01:13, 08:01:15-08:08:01, 08:09-08:14, 08:16:01-08:50, 08:52N-08:61, 08:63, 08:65-08:69, 08:71, 08:73-08:81, 08:83-08:128	B*58:76	
36^{5,7}		85 bp 120 bp 160 bp 210 bp 235 bp		1070 bp	*01:65, 03:28, 03:49, 03:117, 05:06, 05:86 *05:15 *03:25, 04:129, 05:42, 05:46, 06:67, 07:101, 07:148, 07:161, 08:05, 08:21, 12:127, 17:05 *03:06:01-03:06:02, 03:26 *03:88		



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37 ⁵	80 bp 130 bp 195 bp 235 bp 280 bp	800 bp	*07:50 *05:23, 05:62, 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, 07:420, 07:426, 07:428, 07:459, 07:466- 07:467, 07:480, 07:487, 08:07, 08:47, 08:104 *05:14 *05:19 *05:16, 05:85, 05:107, 06:129, 07:364, 08:12	B*14:32
38	250 bp	800 bp	*02:49, 02:75, 03:15, 03:32, 03:45, 03:60, 03:136, 03:297, 04:03:01-04:03:02, 04:06, 04:16, 04:80, 04:147, 04:160, 04:171, 04:190, 06:70:01-06:70:02, 06:132:01-06:132:02, 07:20, 07:96:01-07:96:02, 07:127, 07:263, 07:390, 15:25, 15:62	A*01:110, A*11:135
39	240 bp	1070 bp	*03:39, 03:67, 04:42:01-04:42:02, 04:220, 05:43, 06:02:01:01-06:02:01:03, 06:02:03-06:02:44, 06:04:01-06:16N, 06:18-06:75, 06:78-06:131, 06:133-06:173, 08:37, 12:16, 12:147, 16:21, 16:80, 17:20 [?]	
40 ⁶	245 bp	1070 bp	*01:22, 01:35, 02:03, 02:13, 02:16:01-02:16:02, 02:18, 04:04:01-04:04:02, 04:06, 04:13, 04:34, 04:58, 04:122, 04:160, 04:178, 04:212, 05:11, 05:17, 05:27, 05:68, 05:79, 05:115, 06:04:01- 06:04:02, 06:31, 06:118, 06:153, 08:01:01- 08:01:19, 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, 08:104- 08:106, 08:109, 08:113, 08:117, 08:119, 08:121N- 08:122, 08:124, 08:127N-08:128, 12:14:01- 12:14:02, 12:18:01-12:18:02, 12:20, 12:83, 12:169, 14:06, 14:15, 14:53, 15:02:01:01-15:07, 15:09-15:13, 15:15-15:19, 15:21-15:24, 15:26- 15:50, 15:52-15:73, 15:76-15:83, 15:85-15:101, 15:103-15:121, 16:04:01, 16:04:03, 16:29, 16:33, 16:35, 16:40, 16:42, 16:48, 16:55, 16:61, 16:66, 16:78, 16:82, 16:91, 17:01:01:01-17:16, 17:18- 17:31	B*58:02:01
41	165 bp	1070 bp	*02:94, 04:129, 05:01:01:01-05:01:27, 05:01:28 ^w , 05:01:29-05:01:31, 05:03-05:28, 05:30-05:47, 05:49-05:91N, 05:93-05:127, 06:05, 06:67, 08:10, 12:21, 12:33, 15:107, 17:05	
42	245 bp	1070 bp	*01:02:01-01:03, 01:05-01:07:01, 01:08, 01:10- 01:20, 01:23-01:34, 01:36-01:119, 02:13, 02:32, 04:01:01:01-04:01:33, 04:01:35-04:01:70, 04:03:01-04:03:02, 04:05, 04:07-04:12, 04:15:01-04:20, 04:23-04:33, 04:35-04:47, 04:49-04:57, 04:59Q-04:67, 04:69-04:93N,	



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43⁵	100 bp 155 bp 240 bp 275 bp	1070 bp	*01:02:34, 01:21, 02:42, 02:107, 04:140, 04:166, 04:220, 05:98, 06:05, 07:02:09, 08:14, 08:80, 08:103, 12:16, 12:147, 15:63, 15:113, 16:80 *06:13 *01:10, 01:51, 02:05:01-02:05:03, 02:17, 06:08, 12:119, 14:25, 16:29, 16:50, 17:21 *03:11:01-03:11:02, 03:39, 06:53:01-06:53:02, 07:56:01-07:56:02, 07:60, 07:79, 07:109 *06:27, 16:47	B*67:02 B*07:93, B*07:239, B*08:39, B*14:46, B*38:27, B*40:243
44^{5,6,9}	90 bp 135 bp 165 bp	1070 bp	*03:20N *16:08 *02:22, 04:94:01-04:94:02, 05:08, 05:52, 05:89, 05:106, 06:09, 06:144, 08:27, 08:29, 08:31, 12:31, 12:144, 17:04, 18:03	B*15:137
45⁶	140 bp 255 bp 550 bp	1070 bp	*06:11, 06:122 ^w , 06:124 ^w , 06:147, 07:01:13, 07:04:01-07:04:10, 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, 07:354-07:355, 07:358, 07:364-07:365, 07:378, 07:394-07:395, 07:420, 07:426, 07:428, 07:447, 07:459, 07:466-07:467, 07:480, 07:487, 12:02:11, 12:03:09, 12:11, 12:118, 16:01:16 *03:47, 12:126 *06:02:38, 07:447, 12:03:09	
46	290 bp	800 bp	*02:02:28, 03:03:29, 03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 06:02:23, 07:01:01-01-07:01:04, 07:01:06-07:01:35, 07:01:37-07:01:52, 07:05-07:07, 07:09, 07:14, 07:16, 07:18, 07:20-07:22, 07:24, 07:26:01-07:28, 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, 07:77-07:78:02, 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,	A*25:27:02, B*15:17:04, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*58:01:17

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47⁵	110 bp	800 bp	*04:112, 06:44, 07:01:01:01-07:01:24, 07:01:26-07:01:45, 07:01:47-07:01:52, 07:06, 07:09, 07:18-07:22, 07:24, 07:26:01-07:26:02, 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, 07:77-07:78:02, 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, 07:253-07:257:04, 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, 07:410-07:412, 07:417-07:419, 07:421-07:422, 07:424, 07:427, 07:430-07:431, 07:435, 07:440-07:445, 07:448, 07:450, 07:453-07:455, 07:458, 07:460-07:463, 07:468-07:471, 07:475, 07:479, 07:481, 15:62, 16:64, 18:05
48	185 bp	1070 bp	*07:02:01:01-07:02:64, 07:02:66-07:02:71, 07:10, 07:13, 07:15, 07:19, 07:23, 07:25, 07:29:01-07:29:02, 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, B*40:60, B*40:245

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50	235 bp 305 bp 415 bp	1070 bp	*03:03:29, 03:04:19, 03:113, 07:29:01-07:29:02, 07:177, 07:184, 07:194, 07:248 *03:03:29, 03:04:19, 03:113, 07:10, 07:43, 07:184, 07:196, 07:367 *06:17, 07:07, 07:09, 07:49, 07:61N, 07:76:01- 07:76:02, 07:210, 07:238, 07:247, 07:315, 07:328, 07:403, 07:406, 18:01-18:10	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
51⁵	100 bp 235 bp 265 bp	1070 bp	*07:32N, 07:67 *01:16-01:18, 01:21, 01:23, 07:316, 07:338 *01:19, 07:24, 07:218	
52	130 bp	1070 bp	*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-	A*29:10, B*14:32, B*15:337, B*18:83, B*44:148, B*58:76

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53^{5,8}	80 bp 115 bp 265 bp	1070 bp	*07:11 *05:12 *05:29:01-05:29:02, 08:13, 08:16:01, 08:25, 08:94	
54	395 bp	1070 bp	*06:17, 07:02:01:01-07:02:41, 07:02:42 ^w , 07:02:43-07:05, 07:08, 07:10-07:15, 07:17:01-07:17:02, 07:23, 07:25, 07:27:01-07:27:02, 07:29:01-07:29:02, 07:31:01-07:33N, 07:37-07:39, 07:41-07:43, 07:45-07:51, 07:54, 07:56:01-07:56:02, 07:61N ^w , 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, 07:99-07:102, 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, 07:171-07:172:02, 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, 07:238-07:245, 07:251-07:252, 07:258-07:262, 07:264N-07:265, 07:270-07:275, 07:283-07:290, 07:291 ^w , 07:294, 07:302, 07:305-07:309, 07:312, 07:314:01-07:316, 07:318-07:329N, 07:333-07:334, 07:335 ^w , 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, 07:388-07:390, 07:392-07:403, 07:405-07:406, 07:409, 07:413-07:416, 07:420, 07:423, 07:425-07:426, 07:428-07:429, 07:432-07:434, 07:436, 07:438-07:439, 07:446-07:447, 07:449, 07:451N-07:452N, 07:456-07:457, 07:459, 07:464-07:467, 07:472-07:474, 07:477-07:478, 07:480, 07:482-07:487, 18:01-18:04, 18:06-18:10	
55	165 bp 220 bp 335 bp 405 bp 465 bp	800 bp	*02:104, 03:248, 04:11, 04:33, 04:169, 04:172, 15:100, 16:62 *07:26:01-07:26:02, 07:33N, 07:92, 07:96:01-07:96:02, 07:194, 07:314:01-07:314:02, 07:317, 07:351, 18:09 *01:12:01-01:12:02, 01:21, 01:34, 01:49:01-01:50, 01:79:01-01:79:02, 01:101-01:102, 07:72 *07:61N *01:21, 07:07, 07:16, 07:51, 07:177, 07:181, 07:328, 07:367	A*01:21
56⁵	100 bp 130 bp	800 bp	*07:32N *02:02:28, 06:02:23, 07:22, 07:25, 07:137:01, 07:138, 07:404, 12:03:10	A*03:01:46, A*03:154:02, A*11:32:02,

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			16:04:03, 16:06-16:09, 16:11-16:44, 16:46-16:66, 16:68-16:92	
77^{5,8}	100 bp	800 bp	*04:108, 15:05:01-15:05:11, 15:22-15:23, 15:29, 15:36, 15:46, 15:54, 15:59, 15:69-15:70, 15:90, 15:104, 15:108, 15:110-15:111, 15:115N-15:117	B*07:246, B*35:03:11, B*35:205
78⁷	195 bp 235 bp 310 bp	1070 bp	*06:12, 07:349 *06:16N *01:02:01-01:02:36, 01:05-01:20, 01:22-01:23, 01:25-01:33, 01:35-01:53, 01:56N-01:77, 01:79:01-01:89N, 01:91-01:96, 01:98N-01:101, 01:104-01:114, 01:117N-01:119, 02:19, 02:23, 03:03:01-03:11:02, 03:13:01-03:13:02, 03:17-03:18:02, 03:20N-03:25, 03:27-03:32, 03:34-03:35, 03:37:01-03:39, 03:41:01-03:41:02, 03:44-03:57:02, 03:59, 03:61-03:70, 03:72-03:83, 03:85-03:88, 03:90-03:94, 03:96-03:101, 03:103-03:107, 03:109, 03:111-03:118, 03:120, 03:122-03:131, 03:133-03:138, 03:140-03:145, 03:147-03:168, 03:170-03:174, 03:176-03:189N, 03:191-03:193, 03:195-03:196, 03:202-03:215, 03:217-03:220, 03:223, 03:227-03:237, 03:239, 03:241-03:244Q, 03:246-03:247, 03:249, 03:251-03:257, 03:259-03:263, 03:265N-03:266, 03:268-03:270, 03:272-03:278, 03:280-03:297, 03:302-03:306, 03:308-03:312, 04:89, 04:135, 04:210, 05:47, 05:107, 06:107, 07:29:01-07:29:02, 07:177, 07:184, 07:248, 14:54-14:55, 15:06:01-15:06:03, 15:18, 15:40, 15:55, 15:102	
	360 bp		*06:15	
79	140 bp	1070 bp	*01:02:34, 01:21, 02:12, 02:27:01-02:27:02, 02:87, 03:04:25, 04:11, 04:29, 04:36, 04:55, 04:172, 04:214, 07:02:09, 08:01:01-08:02:10, 08:02:12-08:09, 08:11-08:63, 08:65-08:94, 08:95 ^w , 08:96-08:128, 12:02:01-12:02:10, 12:02:12-12:03:03, 12:03:05-12:03:08, 12:03:10-12:03:23, 12:03:24 ^w , 12:03:25-12:03:33, 12:03:35-12:03:37, 12:06-12:08, 12:10:01-12:20, 12:22-12:26, 12:28-12:32, 12:34-12:40, 12:42Q-12:53, 12:55-12:59, 12:61-12:122, 12:124-12:145, 12:147-12:170, 12:172, 14:02:03, 14:03, 14:08, 14:10, 14:22, 14:35N, 14:38, 14:41, 14:53-14:54, 14:61, 14:70, 15:07, 15:21, 15:25, 15:116, 16:01:01:01-16:01:01:02, 16:01:03-16:01:15, 16:01:17-16:01:19, 16:04:01, 16:04:03, 16:06-16:08, 16:10-16:11, 16:13-16:18, 16:20-16:24, 16:26-16:45, 16:49-16:56, 16:58-16:59, 16:61-16:62, 16:64-16:68, 16:71 ^w , 16:72-16:73, 16:75-16:76, 16:78-16:83, 16:86-16:87, 16:92	B*35:08:02, B*35:08:05, B*67:02
80^{5,7}	70 bp 170 bp	800 bp	*03:34, 03:142, 03:261, 03:272 *01:90 ^w , 02:06:01-02:06:02, 02:47, 06:168, 12:15, 14:19, 15:08, 15:74	A*26:41, B*07:78^w, B*13:18^w, B*13:31^w, B*13:41^w, B*13:73^w, B*15:73^w, B*15:303^w, B*54:10^w, B*54:20^w,



101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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	210 bp 235 bp		*03:19, 03:44, 03:102, 03:307 *03:88	B*54:33^w, B*55:09^w, B*55:21^w, B*55:37^w, B*55:52^w, B*56:43^w B*56:37^w
81^s	65 bp 180 bp 440 bp	1070 bp	*07:06, 07:18-07:19, 08:102 *04:30 *01:90, 02:06:01-02:06:02, 02:47, 03:19, 03:102, 03:307, 04:178, 06:168, 07:289, 12:15, 15:11, 15:16-15:17, 15:43	B*46:11, B*46:18, B*56:08, B*56:14
82^s	180 bp	1070 bp	*01:64, 02:08, 02:87, 03:18:01-03:18:02, 03:64:01-03:64:02, 03:231, 03:301, 04:01:01:01- 04:01:02, 04:01:04-04:01:70, 04:04:01-04:05, 04:07-04:15:03, 04:17-04:20, 04:23-04:79, 04:81- 04:106, 04:108-04:132, 04:134-04:139, 04:141- 04:146, 04:148-04:159, 04:161-04:165, 04:167- 04:170N, 04:172-04:189, 04:191N-04:219, 04:221-04:230, 05:01:01:01-05:01:21, 05:01:23- 05:01:31, 05:03-05:57, 05:59-05:97, 05:99N- 05:126, 06:28, 06:76:01-06:76:02, 07:64, 07:73, 07:92, 07:172:01-07:172:02, 07:349, 08:01:01- 08:13, 08:15:01-08:57, 08:59-08:63, 08:65-08:79, 08:81-08:102, 08:104, 08:106-08:128, 12:02:01- 12:15, 12:17-12:70, 12:72-12:139, 12:141-12:146, 12:148N-12:170, 12:172, 14:02:01-14:02:09, 14:02:11-14:02:19, 14:04-14:09, 14:11-14:17, 14:19-14:21N, 14:23-14:34, 14:36-14:37, 14:39- 14:40, 14:42-14:52, 14:55-14:60, 14:62-14:69, 14:71-14:73, 15:10:01-15:10:03, 15:107, 16:01:01:01-16:02:13, 16:04:01, 16:04:03, 16:06- 16:33, 16:35-16:69, 16:71-16:79, 16:81-16:84, 16:86-16:92, 17:01:01:01-17:01:07, 17:01:09- 17:31, 18:04	
83	235 bp 315 bp 360 bp	800 bp	*06:16N *02:06:01-02:06:02, 02:47, 03:19, 03:102, 03:307, 04:178, 06:168, 07:289, 12:15, 15:02:01:01-15:02:08, 15:02:10-15:03, 15:07- 15:08, 15:10:01-15:13, 15:15-15:18, 15:21, 15:26, 15:28, 15:31-15:35, 15:37-15:39, 15:41- 15:45, 15:47-15:53, 15:56-15:58, 15:60, 15:62- 15:63, 15:67-15:68, 15:71-15:75, 15:78-15:89, 15:91-15:101, 15:103, 15:106, 15:109, 15:112- 15:114, 15:118-15:121 *06:15	
84	205 bp	800 bp	*06:31, *14:17, 16:01:01:01-16:01:04, 16:01:06- 16:02:13, 16:04:01, 16:04:03, 16:08-16:21, 16:23-16:34, 16:36-16:39:02, 16:41-16:42, 16:44-16:47, 16:49-16:52, 16:54-16:92	
85	340 bp	1070 bp	*01:14, 01:59, 01:118, 02:02:01-02:02:03, 02:02:05-02:02:11, 02:02:13-02:11, 02:13- 02:26:03, 02:28-02:40:02, 02:42-02:86, 02:88- 02:112, 03:07, 03:15, 03:45, 03:130, 03:140, 03:163, 03:243, 03:268, 03:297, 04:01:01:01- 04:01:28, 04:01:30-04:01:70, 04:03:01-04:10,	



101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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			04:12-04:20, 04:23-04:28, 04:30-04:35, 04:37-04:54, 04:56-04:171, 04:173N-04:213, 04:215N-04:230, 05:01:01:01-05:01:31, 05:03-05:127, 06:02:01:01-06:02:01:03, 06:02:03-06:02:11, 06:02:13-06:10, 06:12-06:51, 06:53:01-06:121, 06:123, 06:125-06:146, 06:148-06:173, 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, 08:10, 12:04:01-12:05, 12:09, 12:21, 12:33, 12:41, 12:54, 12:60, 12:146, 14:04, 14:12, 14:49, 14:64, 15:02:01:01-15:05:10, 15:06:01-15:06:03, 15:08-15:13, 15:15-15:19, 15:22-15:24, 15:26-15:42, 15:44-15:70, 15:72-15:115N, 15:117-15:121, 16:02:01-16:02:13, 16:09, 16:12, 16:19, 16:25, 16:46-16:48, 16:57, 16:60, 16:63, 16:69-16:70, 16:74, 16:77N, 16:84, 16:88-16:91, 17:01:01:01-17:21, 17:23-17:31, 18:01-18:10	
86^{6,8}	150 bp 320 bp 415 bp	1070 bp	*07:30 *07:72 *07:39-07:40, 07:177, 07:210 ^w , 07:238 ^w , 07:328 ^w , 07:335	
87⁸	160 bp	1070 bp	*07:53, 07:216, 16:01:01:01-16:02:13, 16:06-16:09, 16:11-16:28, 16:30N-16:32, 16:34, 16:36-16:39:02, 16:41, 16:43-16:44, 16:46-16:47, 16:49-16:52, 16:54, 16:56-16:60, 16:62-16:65, 16:69-16:77N, 16:79-16:81, 16:83-16:87, 16:89N-16:90, 16:92	A*24:174
88⁵	85 bp 195 bp 545 bp	1070 bp	*04:23, 04:108 *04:31 *01:85, 08:22, 08:56, 08:102, 15:29, 15:87	
89	345 bp	800 bp	*01:02:01-01:02:33, 01:02:35-01:20, 01:22-01:72, 01:74-01:79:02, 01:81-01:119, 03:02:01-03:04:14, 03:04:16-03:04:24, 03:04:26-03:11:02, 03:13:01-03:117, 03:119-03:144, 03:146-03:171, 03:173-03:230, 03:232-03:247, 03:249-03:312, 05:01:12, 05:29:02, 06:02:01:01-06:02:01:03, 06:02:03-06:04:02, 06:06-06:16N, 06:18-06:76:01, 06:77-06:173, 08:02:11, 12:02:11, 12:03:04, 12:03:09, 12:03:34:01-12:03:34:02, 12:04:01, 14:02:01-14:02:02, 14:02:04-14:02:19, 14:04-14:07N, 14:09, 14:11-14:21N, 14:23-14:26, 14:28:01-14:34, 14:36-14:37, 14:39-14:40, 14:42-14:52, 14:55-14:60, 14:62-14:69, 14:71-14:73, 15:43, 16:01:02, 16:01:16, 17:02, 17:04 [?] , 17:06 [?] -17:16 [?] , 17:18 [?] -17:29 [?] , 17:31 [?]	
90	205 bp 350 bp	800 bp	*07:66 *17:01:01:01-17:01:03, 17:01:05-17:01:11, 17:03, 17:04 [?] , 17:05, 17:06 [?] -17:16 [?] , 17:17, 17:18 [?] -17:29 [?] , 17:30, 17:31 [?]	
91⁵	70 bp 105 bp 170 bp	800 bp	*17:02, 17:04 [?] , 17:06 [?] -17:16 [?] , 17:18 [?] -17:29 [?] , 17:31 [?] *07:67 *07:48	

101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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Lot No.:	9D5		Lot-specific information	www.olerup-ssp.com
	245 bp		*04:01:43, 05:01:17, 05:09:02, 05:17, 07:13, 07:28, 07:55N, 07:289, 08:15:02, 08:72:02	B*35:03:15, B*37:04:02
	270 bp		*07:47, 07:461	
92⁹	155 bp 300 bp	1070 bp	*03:135, 04:20 *17:03, 17:04 [?] , 17:06 [?] -17:16 [?] , 17:17, 17:18 [?] -17:29 [?] , 17:31 [?]	
	485 bp		*07:419	
93^{5,8,9}	90 bp	1070 bp	*17:01:01:01-17:01:11, 17:04 [?] , 17:05, 17:06 [?] -17:16 [?] , 17:18 [?] -17:29 [?] , 17:30, 17:31 [?]	
	210 bp 290 bp		*03:271, 14:06, 14:15, 14:53 *14:11	
94	560 bp	1070 bp	*07:01:01:01-07:33N, 07:35-07:294, 07:296-07:347N, 07:349-07:487, 18:01, 18:03 [?] -18:09 [?]	
95	225 bp	1070 bp	*04:01:01:01-04:01:70, 04:03:01-04:20, 04:23-04:230, 18:02, 18:03 [?] -18:09 [?] , 18:10	
96¹²	-	-	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 high resolution for frequent alleles 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.

⁴A few HLA-A and HLA-B alleles will be amplified by primer mixes 1, 2, 5, 6, 8, 10 to 13, 16 to 19, 21 to 23, 25, 28, 29, 31, 33 to 35, 37, 38, 40, 43, 44, 46, 48, 50, 52, 55 to 57, 59, 61, 70, 71, 77, 79 to 81, 87 and 91 due to the sharing of sequence motifs between HLA Class I loci.

70, 71, 77, 79 to 81, 87 and 91 due to the sharing of sequence motifs between HLA Class I loci.
⁵HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁶Primer mixes 3, 5, 10, 18, 21, 40, 44, 45, 57, 61, 62 and 86 may have tendencies of unspecific amplifications, most pronounced in primer mix 10.

⁷Primer mixes 6, 19, 20, 36, 78 and 80 have a tendency to giving rise to primer oligomer formation.

101.707-12 – including *Taq* polymerase, IFU-01
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⁸Primer mixes 1, 10, 12, 17, 27, 53, 64, 72, 77, 82, 86, 87 and 93 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C high resolution primer mixes.

⁹Primer mixes 10, 44, 92 and 93 may give rise to a long unspecific amplification product. This band should be disregarded when interpreting the typing results.

¹⁰Primer mix 64 may give rise to unspecific amplification in C*12 alleles.

¹¹Primer mix 19 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C high resolution primer mixes for the C*03 alleles.

¹²Primer mix 96 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.

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

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Lot-specific information
PRIMER SPECIFICATION

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Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	90	105	65	100	130	105	200	100	140	105	75	70
PCR product		215	100	200	155	150		135		130	160	280
			200		215	190		595		270	505	
			225		275	210						
			290		300	265						
			365									
Length of int.	800	1070	1070	1070	1070	800	1070	800	1070	800	800	800
pos. control ¹												
5'-primer(s) ²	368	98	368	142	361	105	703	232	92	206	105	105
	5'-gTg 3'	5'-CTC 3'	5'-gTg 3'	5'-TCC 3'	5'-AgT 3'	5'-gCT 3'	5'-CTA 3'	5'-AgA 3'	5'-gTg 3'	5'-AgA 3'	5'-gCT 3'	5'-gCT 3'
		356	757	244	504	363		486	97	2 nd I	992	512
		5'-CCC 3'	5'-CCC 3'	5'-CgC 3'	5'-CAC 3'	5'-AAT 3'		5'-ACA 3'	5'-TCg 3'	5'-CCA 3'	5'-TAA 3'	5'-gTT 3'
		368	934	406	512	368			113			
		5'-gTC 3'	5'-TCA 3'	5'-gCA 3'	5'-gTg 3'	5'-gTg 3'			5'-CCA 3'			
			5 th I						368			
			5'-gTC 3'						5'-gTT 3'			
3'-primer(s) ³	419	154	427	302	473	167	861	302	201	270	134	343
	5'-CgT 3'	5'-CAg 3'	5'-gTA 3'	5'-ggT 3'	5'-CAA 3'	5'-ACC 3'	5'-TCg 3'	5'-ggT 3'	5'-CTT 3'	5'-TAC 3'	5'-AgC 3'	5'-C 3'
		427	527	559	523	323		538	477	418	142	539
		5'-gTg 3'	5'-CCA 3'	5'-CgT 3'	5'-ACA 3'	5'-AgC 3'		5'-CAg 3'	5'-gCA 3'	5'-gTC 3'	5'-TgA 3'	5'-TCT 3'
		538	619		538	479		578		559	218	
		5'-CCg 3'	5'-TTT 3'		5'-gCA 3'	5'-CCA 3'		5'-TgT 3'		5'-CgC 3'	5'-gCT 3'	
		539	956		595	512					231	
		5'-TCT 3'	5'-CAg 3'		5'-CCA 3'	5'-CCA 3'					5'-..C 3'	
			1043		618	538					1016	
			5'-CAA 3'		5'-CT 3'	5'-CCA 3'					5'-CAC 3'	
						595						
						5'-CCT 3'						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12



101.707-12 – including *Taq* polymerase, IFU-01
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Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	215	280	275	110	110	90	115	240	195	80	150	250
PCR product				240	180	120	265	265	225	140	240	
				275	565	185	305		250			
				370		225	540		280			
						255						
Length of int.	1070	800	1070	1070	1070	1070	1070	800	800	1070	800	1070
pos. control ¹												
5'-primer(s) ²	112	105	355	98	201	122	341	89	133	361	115	2 nd I
	5'-CCT 3'	5'-gCT 3'	5'-TCA 3'	5'-CTA 3'	5'-CCg 3'	5'-CCA 3'	5'-ggA 3'	5'-gAA 3'	5'-CCT 3'	5'-AgT 3'	5'-ggA 3'	5'-CCA 3'
	419			355		199	363	105	201	419	201	
	5'-gTC 3'			5'-CCC 3'		5'-gTT 3'	5'-Agg 3'	5'-gCT 3'	5'-CCA 3'	5'-gTC 3'	5'-CCg 3'	
						374	512	115	355			
						5'-CTA 3'	5'-gTT 3'	5'-ggA 3'	5'-TCA 3'			
						379	527		368			
						5'-ACC 3'	5'-TgT 3'		5'-gTT 3'			
						406						
						5'-gCA 3'						
						512						
						5'-gTT 3'						
						539						
						5'-gTg 3'						
3'-primer(s) ³	295	343	589	295	270	341	353	312	343	459	312	539
	5'-TCC 3'	5'-T 3'	5'-CTT 3'	5'-TCC 3'	5'-TAg 3'	5'-CgT 3'	5'-TgA 3'	5'-AgT 3'	5'-T 3'	5'-AgA 3'	5'-AgT 3'	5'-TCC 3'
	589		589	301	341	589	589	312	514			
	5'-CTT 3'		5'-CTT 3'	5'-gCC 3'	5'-ggT 3'	5'-CTT 3'	5'-CTT 3'	5'-AgT 3'	5'-CTT 3'			
				426	343				550			
				5'-TCC 3'	5'-T 3'				5'-CAT 3'			
				589	474				601			
				5'-CTT 3'	5'-gCA 3'				5'-CTT 3'			
				3 rd I								
				5'-ggA 3'								
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.707-12 – including *Taq* polymerase, IFU-01
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Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product	170	145	135	200	130	155	150	120	190	220	265	85
		170	175		190		285	180	225	275		120
			220		290			210				160
												210
												235
Length of int. pos. control ¹	1070	800	1070	800	800	1070	800	1070	1070	1070	1070	1070
5'-primer(s) ²	459	112	560	368	369	485	201	105	419	112	379	176
	5'-gAT 3'	5'-CCT 3'	5'-CCT 3'	5'-gTT 3'	5'-TAC 3'	5'-CAA 3'	5'-CCA 3'	5'-gCT 3'	5'-gTC 3'	5'-CCT 3'	5'-ACC 3'	5'-gCA 3'
		486	1018				355	369	697	355		395
		5'-ACA 3'	5'-gTg 3'				5'-CCT 3'	5'-TAC 3'	5'-TCC 3'	5'-CC 3'		5'-gCA 3'
							485	3 rd I		363		413
							5'-CAA 3'	5'-Cgg 3'		5'-AgC 3'		5'-TgT 3'
										379		420
										5'-ACg 3'		5'-TTC 3'
												467
												5'-CTT 3'
												539
												5'-gCg 3'
3'-primer(s) ³	589	218	3 rd I	527	459	601	299	242	601	289	601	221
	5'-CTC 3'	5'-gCg 3'	5'-ggA 3'	5'-CCg 3'	5'-AgA 3'	5'-CTT 3'	5'-TCT 3'	5'-CCA 3'	5'-CTT 3'	5'-AgT 3'	5'-CTT 3'	5'-ACC 3'
		613	3 rd I		518		601	539	846	341		256
		5'-gCA 3'	5'-ACg 3'		5'-CCA 3'		5'-CTC 3'	5'-TCT 3'	5'-CAC 3'	5'-ggT 3'		5'-CCA 3'
			1052		616			668		601		289
			5'-Tgg 3'		5'-TgT 3'			5'-TgA 3'		5'-CTT 3'		5'-AgC 3'
			1092									289
			5'-TTA 3'									5'-AgC 3'
												589
												5'-CTT 3'
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **9D5**

Lot-specific information

www.olerup-ssp.com

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	80	250	240	245	165	245	100	90	140	290	110	185
PCR product	130						155	135	255			
	195						240	165	550			
	235						275					
	280											
Length of int. pos. control ¹	800	800	1070	1070	1070	1070	1070	1070	1070	800	800	1070
5'-primer(s) ²	361 5'-AgT 3'	134 5'-CCA 3'	28 5'-TCA 3'	2 nd I 5'-CCA 3'	176 5'-gCA 3'	2 nd I 5'-CCA 3'	142 5'-TCT 3'	19 5'-CCT 3'	86 5'-CAA 3'	368 5'-gTA 3'	270 5'-AAC 3'	368 5'-gTC 3'
	406 5'-gCC 3'						361 5'-AgT 3'	126 5'-ggA 3'	213 5'-CCC 3'			368 5'-gTC 3'
	446 5'-CgT 3'							412 5'-ATA 3'	368 5'-gTC 3'			
	512 5'-gTT 3'											
	1049 5'-C 3'											
3'-primer(s) ³	601 5'-CTT 3'	341 5'-CgT 3'	97 5'-gTC 3'	527 5'-CCg 3'	302 5'-ggT 3'	527 5'-CCg 3'	201 5'-CTT 3'	70 5'-ggC 3'	302 5'-ggC 3'	618 5'-CT 3'	341 5'-CgT 3'	512 5'-CCA 3'
	1087 5'-AgT 3'			539 5'-TCA 3'		538 5'-CCg 3'	341 5'-ggT 3'	220 5'-CgA 3'	474 5'-gCA 3'			
							343 5'-T 3'	239 5'-gCg 3'				
							475 5'-ggT 3'	538 5'-CCA 3'				
							559 5'-CTC 3'	539 5'-TCT 3'				
							595 5'-CCA 3'					
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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Lot No.: **9D5**

Lot-specific information

www.olerup-ssp.com

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product	80	235	100	130	80	395	165	100	155	110	505	105
		305	235		115		220	130				
		415	265		265		335	250				
							405	305				
							465					
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	800	800	1070	1070	1070	1070
5'-primer(s) ²	302	47	89	512	1 st I	47	47	355	486	527	312	539
	5'-gAA 3'	5'-Agg 3'	5'-gAA 3'	5'-gTg 3'	5'-CgA 3'	5'-Agg 3'	5'-Agg 3'	5'-TCA 3'	5'-ACg 3'	5'-TAC 3'	5'-AAA 3'	5'-gCg 3'
		355	385		176		218	410		900		
		5'-TCA 3'	5'-ggT 3'		5'-gCA 3'		5'-ggA 3'	5'-gTg 3'		5'-CCg 3'		
		419	554		453		368	524				
		5'-gTA 3'	5'-ggT 3'		5'-AAT 3'		5'-gTA 3'	5'-CCA 3'				
			560		1049			538				
			5'-CAC 3'		5'-g 3'			5'-AgT 3'				
								560				
								5'-CAC 3'				
3'-primer(s) ³	341	100	278	601	175	270	90	618	601	595	527	601
	5'-CgT 3'	5'-ggg 3'	5'-ggT 3'	5'-CTT 3'	5'-CCg 3'	5'-TAC 3'	5'-Ag 3'	5'-CT 3'	5'-CTT 3'	5'-CCT 3'	5'-CCT 3'	5'-CTT 3'
		280	287		527		97			963		
		5'-CTA 3'	5'-TCg 3'		5'-CCA 3'		5'-gTA 3'			5'-gCT 3'		
		302	289		1087		100					
		5'-ggT 3'	5'-AgC 3'		5'-AgC 3'		5'-ggg 3'					
		618	301				197					
		5'-CT 3'	5'-gCA 3'				5'-gAT 3'					
			618				280					
			5'-CT 3'				5'-CTA 3'					
							341					
							5'-Cgg 3'					
							3 rd I					
							5'-ATg 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. PCR product	235	100	220	130	150	155	145	145	245	210	130	110
					415							
Length of int. pos. control ¹	800	800	800	1070	1070	1070	800	800	800	800	1070	1070
5'-primer(s) ²	98	419	361	201	28	361	98	98	98	368	368	134
	5'-CTA 3'	5'-gTC 3'	5'-AgT 3'	5'-CCA 3'	5'-TCA 3'	5'-AgT 3'	5'-CTC 3'	5'-CTC 3'	5'-CTC 3'	5'-gTT 3'	5'-gTA 3'	5'-CCA 3'
					431							
					5'-CgT 3'							
3'-primer(s) ³	289	477	538	289	270	474	201	201	302	538	459	201
	5'-AgC 3'	5'-gCA 3'	5'-CCA 3'	5'-AgT 3'	5'-TAg 3'	5'-gCA 3'	5'-CTC 3'	5'-CTT 3'	5'-ggT 3'	5'-CCg 3'	5'-AgA 3'	5'-CTT 3'
	289			289	538							
	5'-AgC 3'			5'-AgT 3'	5'-CCA 3'							
	295											
	5'-TCC 3'											
Well No.	61	62	63	64	65	66	67	68	69	70	71	72



101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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Lot No.: **9D5**

Lot-specific information

www.olerup-ssp.com

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	205	95	145	310	100	195	140	70	65	180	235	205
PCR product	325	175	195			235		170	180		315	
						310		210	440		360	
						360		235				
Length of int. pos. control ¹	1070	1070	1070	800	800	1070	1070	800	1070	1070	800	800
5'-primer(s) ²	409	134	134	419	420	376	201	395	270	1 st I	376	361
	5'-ggC 3'	5'-CCA 3'	5'-CCA 3'	5'-gTC 3'	5'-TTC 3'	5'-gCT 3'	5'-CCA 3'	5'-gCA 3'	5'-AAg 3'	5'-CgA 3'	5'-gCT 3'	5'-AgT 3'
	529	368	512	430		419		420	1018	1018	420	
	5'-AgA 3'	5'-gTg 3'	5'-gTT 3'	5'-ACC 3'		5'-gTA 3'		5'-TTA 3'	5'-gTg 3'	5'-gTg 3'	5'-TTA 3'	
						430		421			501	
						5'-ACC 3'		5'-ACC 3'			5'-..C 3'	
						501		560				
						5'-..C 3'		5'-CgA 3'				
						529						
						5'-AgA 3'						
						1018						
						5'-gTg 3'						
3'-primer(s) ³	3 rd I	270	289	3 rd I	477	3 rd I	302	539	420	134	3 rd I	527
	5'-CTC 3'	5'-TAg 3'	5'-AgC 3'	5'-CTC 3'	5'-gCg 3'	5'-CTC 3'	5'-ggC 3'	5'-TCC 3'	5'-gCT 3'	5'-AgC 3'	5'-CTC 3'	5'-CCg 3'
		419	616			1055	302	589	1043	1055		527
		5'-CgA 3'	5'-CgT 3'			5'-TgC 3'	5'-ggC 3'	5'-CTT 3'	5'-CAA 3'	5'-TgC 3'		5'-CCg 3'
		427							1052			
		5'-gTA 3'							5'-Tgg 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	93	94	95
Length of spec.	340	150	160	85	345	205	70	155	90	560	225
PCR product		320		195		350	105	300	210		
		415		545			170	485	290		
							245				
							270				
Length of int. pos. control ¹	1070	1070	1070	1070	800	800	800	1070	1070	1070	1070
5'-primer(s) ²	1 st I	47	419	368	28	20	28	70	20	956	895
	5'-CgA 3'	5'-Agg 3'	5'-gTC 3'	5'-gTT 3'	5'-TCA 3'	5'-CCA 3'	5'-TCA 3'	5'-ggA 3'	5'-CCA 3'	5'-ggT 3'	5'-ggA 3'
		419		972		688	390	347	368		
		5'-gTC 3'		5'-CTA 3'		5'-CCA 3'	5'-gAA 3'	5'-gTA 3'	5'-gTT 3'		
							411	648			
							5'-TAg 3'	5'-CAC 3'			
							419				
							5'-gTT 3'				
							490				
							5'-CgA 3'				
							554				
							5'-ggT 3'				
3'-primer(s) ³	302	197	539	412	201	201	59	201	70	1034	956
	5'-ggT 3'	5'-gAT 3'	5'-TCT 3'	5'-gTC 3'	5'-CTC 3'	5'-CTC 3'	5'-CgA 3'	5'-CTC 3'	5'-ggC 3'	5'-AgC 3'	5'-CAg 3'
		289		521		853	618	459	539		
		5'-AgT 3'		5'-ggA 3'		5'-CAT 3'	5'-CT 3'	5'-AgA 3'	5'-TCA 3'		
		527		1034				967	619		
		5'-CCC 3'		5'-AgT 3'				5'-gAT 3'	5'-TTT 3'		
Well No.	85	86	87	88	89	90	91	92	93	94	95

101.707-12 – including *Taq* polymerase, IFU-01
101.707-12u – without *Taq* polymerase, IFU-02

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Lot No.: 9D5

Lot-specific information

www.olerup-ssp.com

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.

101.707-12 – including Taq polymerase, IFU-01
 101.707-12u – without Taq polymerase, IFU-02

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Lot No.: 9D5

Lot-specific information

www.olerup-ssp.com

CELL LINE VALIDATION SHEET																				
HLA-C high resolution SSP primer set ²																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201437301	201437302	201667903	201437304	201667905	201437306	201437307	201437308	201437309	201437310	201437311	201437312	201437313	201437314	201437315	201667916
IHWCell 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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Lot No.: **9D5**

Lot-specific information

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CELL LINE VALIDATION SHEET																				
HLA-C high resolution SSP primer set ²																				
			Prod. No.:	Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
	IHC cell line ¹	C*		201667917	201667918	201667919	201667920	201437321	201437322	201437323	201437324	201437325	201437326	201437327	201437328	201437329	201437330	201437331	201437332	
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	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-



101.707-12 – including *Taq* polymerase, IFU-01
 101.707-12u – without *Taq* polymerase, IFU-02

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Lot No.: **9D5**

Lot-specific information

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CELL LINE VALIDATION SHEET																						
HLA-C high resolution SSP primer set ²																						
					Well																	
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
					Prod. No.:	201437333	201667934	201437335	201667936	201437337	201437338	201437339	201437340	201437341	201437342	201667943	201437344	201437345	201437346	201437347	201437348	
	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	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-



101.707-12 – including Taq polymerase, IFU-01
 101.707-12u – without Taq polymerase, IFU-02

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Lot No.: 9D5

Lot-specific information

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CELL LINE VALIDATION SHEET																				
HLA-C high resolution SSP primer set ²																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201667949	201667950	201667951	201437352	201437353	201437354	201667955	201667956	201437357	201667958	201667959	201437360	201437361	201437362	201437363	201437364
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	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	+



101.707-12 – including Taq polymerase, IFU-01
 101.707-12u – without Taq polymerase, IFU-02

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Lot No.: 9D5

Lot-specific information

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CELL LINE VALIDATION SHEET																			
HLA-C high resolution SSP primer set ²																			
				Well															
				81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	
				Prod. No.:	201667981	201667982	201437383	201437384	201437385	201667986	201437387	201667988	201437389	201667990	201667991	201667992	201667993	201437394	201437395
	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	-	+	-	+	+	-	+	-	-	-	-	-	-	-	+	



101.707-12 – including *Taq* polymerase, IFU-01
101.707-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

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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 pairs in solutions 2, 4, 5, 8 to 10, 18, 19, 21, 32 to 34, 43, 44, 51, 53, 55, 56, 58, 65, 80 and 86. The specificities of the primers in primer solutions 2, 5, 8 to 10, 18, 19, 21, 32 to 34, 43, 44, 51, 53, 55, 56, 80 and 86 were tested by separately adding one 5'-primer, respectively one 3'-primer. In primer solution 58 was only possible to test the 5'-primer, the 3'-primer were not possible to test. In primer solution 4 it was only possible to test the 3'-primer, the 5'-primer was not possible to test. In primer solutions 2, 3, 5, 8, 9, 18, 20, 21, 23, 31, 33, 34, 36, 37, 44, 45, 51, 56, 65, 73, 76, 78, 80, 83, 91 and 92 one or more of the 5'-primers were not possible to test. In primer solutions 2, 3, 5, 6, 8, 10, 13, 15, 16, 17, 20, 21, 26, 27, 29, 32, 34, 36, 43, 44, 50, 51, 55, 61, 74, 75, 78, 79, 81, 82, 86, 88, 92 and 93 one or more of the 3'-primers were not possible to test. Additional 5'-primers or 3'-primers in primer solutions 3, 6, 11, 12, 13, 16, 17, 20, 26, 27, 31, 36, 37, 45, 46, 50, 71, 74, 75, 81, 82, 88 and 91 to 93 were tested by separately adding one or more additional 3'-primer, respectively one or more additional 5'-primer.

101.707-12 – including *Taq* polymerase, IFU-01

101.707-12u – without *Taq* polymerase, IFU-02

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www.olerup-ssp.com

ADDRESSES:

Manufacturer:

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

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.com

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

Distributed by:

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

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

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

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

Tel: 1-877-OLERUP1

Fax: 610-344-7989

E-mail: info.us@olerup.com

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

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