

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.: **24S**

Lot-specific information

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## **Olerup SSP<sup>®</sup> HLA-C high resolution for frequent alleles**

<b>Product number:</b>	<b>101.707-12 – including <i>Taq</i> polymerase 101.707-12u – without <i>Taq</i> polymerase</b>
<b>Lot number:</b>	<b>24S</b>
<b>Expiry date:</b>	<b>2015-December-01</b>
<b>Number of tests:</b>	<b>12</b>
<b>Number of wells per test:</b>	<b>95 + 1</b>
<b>Storage - pre-aliquoted primers:</b>	<b>dark at -20°C</b>
- PCR Master Mix:	<b>-20°C</b>
- Adhesive PCR seals	<b>RT</b>
- Product Insert	<b>RT</b>

**This Product Description is only valid for Lot No. 24S.**

### **CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup> HLA-C HIGH RESOLUTION LOT (92M)**

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

The specificity and interpretation tables are based on the same release of the HLA database, release 2.22.0, 2008-July-11, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), as the previous Olerup SSP<sup>®</sup> HLA-C\*high resolution lot (**92M**). All the HLA-C alleles recognized in July 2008 will be amplified by the primers in this kit

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

Well	5'-primer	3'-primer	rationale
53	Added	-	5'-primer added, for increased yield of HLA-specific PCR product.
91	Added	-	5'-primer added, for improved amplification of the C*07:48 allele.

Change in revision R01 compared to R00:

1. The foot note numbers for primer mix 86 have been corrected in the Specificity Table.

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Well **96** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP*<sup>®</sup> HLA Class I, DRB, DQB1 and DPB1 amplicons as well as the amplicons generated by control primer pairs.

PCR product sizes range from 75 to 430 base pairs.  
 The PCR product generated by the control primer pair is 430 base pairs.

Length of PCR product	105	200	105	80	75	80
<b>5'-primer<sup>1</sup></b>	<b>164</b>	<b>340</b>	<b>440</b>	<b>45</b>	<b>45</b>	<b>43</b>
	5'-CAC <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-Tg g <sup>3'</sup>	5'-Tg g <sup>3'</sup>	5'-Tg g <sup>3'</sup>
<b>3'-primer<sup>2</sup></b>	<b>231</b>	<b>2<sup>nd</sup> I</b>	<b>507</b>	<b>59</b>	<b>58</b>	<b>57</b>
	5'-TgC <sup>3'</sup>	5'-AAA <sup>3'</sup>	5'-TTg <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CTC <sup>3'</sup>
<b>A*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>B*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>C*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>DRB1</b>				<b>+</b>	<b>+</b>	
<b>DRB3</b>				<b>+</b>	<b>+</b>	
<b>DRB5</b>				<b>+</b>		
<b>DQB1</b>					<b>+</b>	
<b>DPB1</b>						<b>+</b>

<sup>1</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> 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](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>2</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> exon or the 2<sup>nd</sup> 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](http://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 to C\*18:03 alleles and will generate unique amplification patterns and have good resolution for all frequently encountered HLA-C genotypes currently recognized.

#### 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	96

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

Well 96 – Negative Control.

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

Well No. 1 is marked with the Lot No. ‘24S’.

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 6, 8, 10, 13, 16, 18, 19, 31, 34, 40, 43, 44, 48, 52, 59, 61, 70, 79, 80 and 81 due to the sharing of sequence motifs between HLA Class I loci.

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### UNIQUELY IDENTIFIED ALLELES

All the HLA-C alleles, i.e. **C\*01:02 to C\*18:03**, recognized by the HLA Nomenclature Committee in July 2008<sup>1</sup> will be amplified by the primers in the HLA-C high resolution for frequent alleles SSP kit and will give rise to unique amplification patterns, with the exceptions that following alleles have the same amplification patterns:

C\*01:06 and C\*01:11  
C\*01:15 and C\*01:20  
C\*01:16, C\*01:17, C\*01:18 and C\*01:19  
C\*02:03 and C\*02:18  
C\*02:05 and C\*02:17  
C\*03:09 and C\*03:23  
C\*03:21 and C\*03:22Q  
C\*03:30 and C\*03:50  
C\*03:37 and C\*03:46  
C\*04:07 and C\*04:27  
C\*04:08, C\*04:09N and C\*04:30  
C\*04:15:02 and C\*04:17  
C\*04:18 and C\*04:19  
C\*04:23 and C\*04:31  
C\*04:24, C\*04:25 and C\*04:26  
C\*05:06 and C\*05:15  
C\*05:14, C\*05:16 and C\*05:19  
C\*06:08 and C\*06:13  
C\*06:15 and C\*06:16N  
C\*07:03 and C\*07:17  
C\*07:15 and C\*07:38  
C\*07:22 and C\*07:35  
C\*07:25 and C\*07:32N  
C\*07:30 and C\*07:40  
C\*07:33N and C\*07:51  
C\*07:37 and C\*07:54  
C\*07:47 and C\*07:48  
C\*15:09 and C\*15:19  
C\*15:11 and C\*15:17

<sup>1</sup>HLA-C alleles listed on the IMGT/HLA web page 2008-July-11, release 2.22.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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Lot-specific information  
**SPECIFICITY TABLE**

[www.olerup-ssp.com](http://www.olerup-ssp.com)

### HLA-C high resolution for frequent alleles SSP typing

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

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-C alleles <sup>3</sup>	Other amplified HLA Class I alleles <sup>4</sup>
<b>1<sup>5,8</sup></b>	90 bp	<b>800 bp</b>	*01:02:01-01:02:05, 01:06-01:11, 01:13-01:20, 01:22	
<b>2<sup>5</sup></b>	95 bp, 215 bp	1070 bp	*01:05, 04:05, 07:37, 07:54, 14:08, 16:06	
<b>3<sup>6</sup></b>	200 bp, 290 bp, 360 bp, 565 bp	1070 bp	*01:06, 01:11, 07:06, 07:18-07:19, 15:13	
<b>4<sup>5</sup></b>	100 bp, 200 bp	1070 bp	*01:07, 06:10, 16:09	
<b>5<sup>6</sup></b>	150 bp, 210 bp, 300 bp	1070 bp	*01:08, 05:17, 07:03, 07:17, 07:23, 07:31, 12:13, 12:19	
<b>6<sup>5,7</sup></b>	105 bp, 150 bp, 210 bp, 260 bp	<b>800 bp</b>	*01:04, 01:09, 01:15, 01:20, 03:24, 03:33, 07:05	<b>B*15:129, B*27:25, B*27:36</b>
<b>7</b>	200 bp	1070 bp	*02:02:01-02:02:03, 02:02:05-02:09, 02:11-02:13, 02:15-02:22	
<b>8<sup>5</sup></b>	105 bp, 135 bp	<b>800 bp</b>	*02:03, 02:18, 02:20, 06:07	<b>B*27:34, B*40:06:02, B*57:03:02<sup>w</sup></b>
<b>9</b>	140 bp	1070 bp	*02:04, 02:14, 02:21, 06:05, 12:10:01, 12:16, 16:11	
<b>10<sup>5,6,8,9</sup></b>	105 bp, 130 bp, 270 bp	<b>800 bp</b>	*02:07, 07:46, 08:06, 16:10	<b>B*56:08, B*56:14</b>
<b>11<sup>5</sup></b>	75 bp, 155 bp, 505 bp	<b>800 bp</b>	*02:08, 03:11:01-03:11:02, 03:37, 03:46, 04:16, 06:03, 07:06, 15:10:02	
<b>12<sup>5,8</sup></b>	70 bp, 280 bp	<b>800 bp</b>	*02:02:01-02:02:03, 02:02:05-02:03, 02:04 <sup>w</sup> , 02:05-02:13, 02:14 <sup>w</sup> , 02:15-02:22, 03:02:01-03:02:03, 03:04:01:01-03:10, 03:14-03:17, 03:19, 03:23-03:29, 03:32-03:38:02, 03:40-03:42, 03:44-03:48, 04:03, 04:06, 04:16, 06:03, 07:53, 15:02:01-15:09, 15:10:02-15:11, 15:13, 15:15-15:19, 15:21	

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Lot No.: <b>24S</b>	Lot-specific information		<a href="http://www.olerup-ssp.com">www.olerup-ssp.com</a>
<b>13</b>	220 bp	1070 bp	*03:02:01-03:02:03, 03:14-03:15, 03:33, 03:36, 03:40, 03:42-03:43:01, 04:12 <b>B*15:96</b>
<b>14</b>	280 bp	<b>800 bp</b>	*03:03:01-03:03:05, 03:11:01-03:13, 03:20N-03:22Q, 03:30-03:31, 03:43:01, 03:49-03:50, 15:12
<b>15</b>	275 bp	1070 bp	*03:03:01-03:04:07, 03:06-03:12, 03:14, 03:18-03:24, 03:26, 03:28-03:32, 03:34, 03:37-03:40, 03:42-03:50
<b>16</b>	245 bp, 275 bp	1070 bp	*03:05, 03:13, 03:17, 03:25, 03:27, 03:35, 12:07, 12:17 <b>B*15:96</b>
<b>17<sup>5,8</sup></b>	110 bp, 185 bp, 555 bp	1070 bp	*03:03:01-03:03:05, 03:08, 03:11:01-03:13, 03:18, 03:20N-03:22Q, 03:29-03:31, 03:39, 03:43:01, 03:49-03:50, 07:01:01-07:01:09, 07:06-07:07, 07:09, 07:16, 07:18-07:20, 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, 12:03:04
<b>18<sup>5</sup></b>	90 bp, 185 bp, 225 bp, 255 bp	1070 bp	*03:09, 03:21-03:23, 03:28, 03:42, 03:49, 07:21, 07:36 <b>B*15:96</b>
<b>19<sup>5</sup></b>	105 bp, 265 bp, 295 bp, 530 bp	1070 bp	*03:13, 03:15, 03:32, 03:35-03:36, 03:45, 06:14, 07:10, 07:43 <b>B*15:96</b>
<b>20<sup>7</sup></b>	250 bp	<b>800 bp</b>	*01:14, 02:02:01 <sup>w</sup> , 02:02:02-02:02:03, 02:02:05-02:03, 02:04 <sup>w</sup> , 02:05-02:13, 02:14 <sup>w</sup> , 02:15-02:22, 03:07, 03:10, 03:15, 03:29, 03:45, 04:03, 04:06, 04:16, 05:13, 06:03, 15:02:01-15:06:01, 15:08-15:09, 15:10:02-15:13, 15:15-15:19, 15:21
<b>21</b>	190 bp, 220 bp, 250 bp, 285 bp	<b>800 bp</b>	*03:30, 03:50, 04:18-04:19, 05:10, 15:12
<b>22<sup>5</sup></b>	80 bp, 140 bp	1070 bp	*03:02:01-03:02:03, 03:15-03:17, 03:33, 03:36, 03:40, 03:42-03:43:01, 14:02:01, 14:02:03-14:09
<b>23</b>	150 bp, 240 bp	<b>800 bp</b>	*01:14, 03:07, 03:10, 03:15, 03:29, 03:45, 05:13, 06:02:01:01-06:02:01:02, 06:02:03-06:04, 06:06-06:10, 06:12-06:17, 07:07, 07:09, 12:04:01, 17:01:01:01-17:04, 18:01-18:03

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<b>24</b>	250 bp	1070 bp	*01:02:01-01:21, 02:02:01-02:02:03, 02:02:05-02:02:06, 02:04-02:15, 02:17, 02:19-02:22, 04:01:01:01-04:01:05, 04:03, 04:05, 04:07-04:12, 04:15:01-04:20, 04:23- 04:33, 05:01:01:01-05:01:04, 05:03- 05:10, 05:12-05:16, 05:18-05:19, 06:02:01:01-06:02:01:02, 06:02:03- 06:03, 06:05-06:17, 08:02:01, 08:05, 08:07, 08:12, 08:15, 12:02:01-12:13, 12:15-12:17, 12:21, 14:02:01-14:05, 14:07N-14:09, 15:08, 16:04:01, 18:01-18:03	
<b>25</b>	170 bp	1070 bp	*03:16, 03:41, 04:01:01:01-04:01:04, 04:03-04:04:01, 04:05-04:20, 04:23- 04:34, 14:02:01, 14:02:03-14:09, 18:01-18:03	
<b>26</b>	145 bp, 170 bp	<b>800 bp</b>	*02:09, 04:07, 04:27	
<b>27<sup>8</sup></b>	135 bp, 170 bp, 225 bp	1070 bp	*04:08-04:09N, 04:30, 04:34, 15:15	
<b>28</b>	200 bp	<b>800 bp</b>	*04:13, 07:08	
<b>29<sup>5</sup></b>	130 bp, 190 bp, 290 bp	<b>800 bp</b>	*02:15, 03:05, 03:25, 03:27, 04:15:01, 07:14, 14:09	
<b>30</b>	155 bp	1070 bp	*05:01:01:01-05:01:04, 05:03-05:08, 05:10-05:11, 05:13-05:16, 05:19, 07:41, 08:02:01, 08:04-08:05, 08:07, 08:12-08:13	
<b>31</b>	150 bp, 285 bp	<b>800 bp</b>	*01:13, 05:09, 05:17, 07:45, 08:15, 12:12	<b>B*15:33, B*35:08:02</b>
<b>32<sup>5</sup></b>	120 bp, 180 bp, 210 bp	1070 bp	*03:48, 05:03, 07:52, 16:07	
<b>33</b>	225 bp	1070 bp	*04:28, 05:04, 08:09, 08:11	
<b>34</b>	220 bp, 275 bp	1070 bp	*04:10, 04:11 <sup>w</sup> , 05:05, 05:07N, 08:08	<b>A*29:10</b>
<b>35</b>	265 bp	1070 bp	*05:01:01:01-05:01:04, 05:03-05:04, 05:06-05:08, 05:10-05:16, 05:18- 05:19, 07:04:01-07:04:02, 07:11- 07:12, 07:41, 08:01:01-08:14, 08:16	
<b>36<sup>5,7</sup></b>	90 bp, 120 bp, 160 bp, 210 bp	1070 bp	*03:06, 03:25-03:26, 03:28, 03:49, 05:06, 05:15, 08:05	

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<b>37<sup>5</sup></b>	80 bp, 130 bp, 195 bp, 235 bp, 280 bp	<b>800 bp</b>	*05:14, 05:16, 05:19, 07:04:01-07:04:02, 07:11, 07:50, 08:07, 08:12	
<b>38</b>	250 bp	<b>800 bp</b>	*03:15, 03:32, 03:45, 04:03, 04:06, 04:16, 07:20	
<b>39</b>	240 bp	1070 bp	*03:39, 06:02:01:01-06:02:01:02, 06:02:03, 06:04-06:16N, 12:16	
<b>40<sup>6</sup></b>	250 bp	1070 bp	*01:22, 02:03, 02:13, 02:16:01, 02:18, 04:04:01-04:04:02, 04:06, 04:13, 04:34, 05:11, 05:17, 06:04, 08:01:01-08:01:02, 08:03:01-08:04, 08:06, 08:08-08:11, 08:13-08:14, 08:16, 12:14:01, 12:18, 12:20, 14:06, 15:02:01-15:07, 15:09-15:13, 15:15-15:19, 15:21, 16:04:01, 17:01:01:01-17:04	<b>B*58:02</b>
<b>41</b>	165 bp	1070 bp	*05:01:01:01-05:01:04, 05:03-05:19, 06:05, 08:10, 12:21	
<b>42</b>	250 bp	1070 bp	*01:02:01-01:03, 01:05-01:08, 01:10-01:20, 02:13, 04:01:01:01-04:01:05, 04:03, 04:05, 04:07-04:12, 04:15:01-04:20, 04:23-04:33, 05:01:01:01-05:01:04, 05:03-05:07N, 05:09-05:10, 05:12-05:16, 05:18-05:19, 06:05-06:06, 08:02:01, 08:05, 08:07, 08:12, 08:15, 12:09, 14:02:01-14:05, 14:07N-14:09, 15:08, 16:04:01, 18:01-18:02	
<b>43<sup>5</sup></b>	100 bp, 155 bp, 240 bp	1070 bp	*01:10, 01:21, 02:05, 02:17, 03:11:01-03:11:02, 03:39, 06:05, 06:08, 06:13, 07:56:01, 08:14, 12:16	<b>B*67:02</b>
<b>44<sup>5,6,9</sup></b>	90 bp, 135 bp, 160 bp	1070 bp	*02:22, 03:20N, 04:14, 05:08, 06:09, 16:08, 17:04, 18:03	<b>B*15:137</b>
<b>45<sup>6</sup></b>	140 bp, 255 bp	1070 bp	*03:47, 06:11, 07:04:01-07:04:02, 07:11-07:12, 07:45, 12:11	
<b>46</b>	290 bp	<b>800 bp</b>	*05:17, 07:01:01-07:01:04, 07:01:06-07:01:09, 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, 07:35-07:36, 07:40, 07:43-07:44, 07:52-07:53, 07:55N	
<b>47<sup>5</sup></b>	110 bp	<b>800 bp</b>	*07:01:01-07:01:09, 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	



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<b>48</b>	185 bp	1070 bp	*07:02:01:01-07:02:02, 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	<b>B*40:60</b>
<b>49<sup>5</sup></b>	85 bp, 130 bp, 170 bp, 250 bp	1070 bp	*04:24-04:26, 07:42, 07:44	
<b>50</b>	240 bp, 425 bp	1070 bp	*06:17, 07:07, 07:09, 07:29, 07:49, 18:01-18:03	
<b>51</b>	240 bp, 275 bp	1070 bp	*01:16-01:19, 01:21, 07:24	
<b>52<sup>5</sup></b>	130 bp	1070 bp	*05:01:01:01-05:01:04, 05:03-05:08, 05:10-05:16, 05:18-05:19, 07:12, 07:41, 08:01:01-08:06, 08:08-08:14, 08:16	<b>A*29:10</b>
<b>53<sup>5,8</sup></b>	80 bp, 115 bp, 265 bp	1070 bp	*05:12, 07:11, 08:13, 08:16	
<b>54</b>	395 bp	1070 bp	*06:17, 07:02:01:01-07:05, 07:08, 07:10-07:15, 07:17, 07:23, 07:25, 07:27:01-07:27:02, 07:29, 07:31-07:33N, 07:37-07:39, 07:41-07:43, 07:45-07:51, 07:54, 07:56:01, 18:01-18:03	
<b>55</b>	165 bp, 220 bp, 340 bp, 465 bp	<b>800 bp</b>	*01:12, 01:21, 04:11, 04:33, 07:07, 07:16, 07:26, 07:33N, 07:51	
<b>56<sup>5</sup></b>	100 bp, 125 bp, 250 bp	<b>800 bp</b>	*07:22, 07:25, 07:32N, 07:35	
<b>57<sup>6</sup></b>	155 bp	1070 bp	*05:12, 05:18, 08:01:01-08:01:02, 08:03:01, 08:06, 08:08-08:11, 08:14, 08:16	
<b>58<sup>5</sup></b>	110 bp	1070 bp	*08:03:01, 08:06, 08:14	
<b>59<sup>5</sup></b>	110 bp, 150 bp, 230 bp, 275 bp	1070 bp	*02:11, 03:34, 04:32, 07:15, 07:38, 08:09, 14:07N, 18:03	<b>B*40:60</b>
<b>60<sup>5</sup></b>	105 bp	1070 bp	*05:01:01:01-05:01:04, 05:03-05:07N, 05:10, 05:12-05:16, 05:18-05:19, 07:41, 08:02:01, 08:05, 08:07, 08:12	
<b>61<sup>6</sup></b>	235 bp	<b>800 bp</b>	*02:12, 03:15, 03:27, 03:38:01-03:38:02, 04:03, 04:06, 04:16, 06:03, 07:26, 08:05, 12:02:01-12:04:02, 12:06-12:08, 12:10:01-12:15, 12:17-12:20, 15:03, 15:16, 17:01:01:01-	<b>B*07:13, 07:15, B*67:02</b>

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

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Lot No.: <b>24S</b>		Lot-specific information		<a href="http://www.olerup-ssp.com">www.olerup-ssp.com</a>
			17:04	
<b>62<sup>5</sup></b>	100 bp	<b>800 bp</b>	*01:04, 01:21, 12:02:01-12:02:03, 12:08, 12:10:01, 12:16-12:18	
<b>63</b>	220 bp	<b>800 bp</b>	*01:04, 01:09, 02:05, 02:17, 06:02:01:01-06:02:01:02, 06:02:03- 06:03, 06:07-06:13, 06:15-06:17, 12:03:01:01-12:07, 12:11-12:13, 12:15, 16:04:01	
<b>64<sup>5,8</sup></b>	130 bp	1070 bp	*02:02:01-02:02:03, 02:02:05-02:11, 02:13-02:22, 04:10-04:11, 05:01:01:01-05:01:04, 05:03-05:19, 06:05, 08:01:01-08:04, 08:06-08:16, 12:05, 12:09, 12:21, 14:02:03, 14:03, 14:08, 15:02:01-15:02:04, 15:04- 15:13, 15:15, 15:17-15:19, 15:21, 16:01:01, 16:01:03-16:02:01, 16:04:01, 16:06-16:11	
<b>65</b>	150 bp, 190 bp, 415 bp	1070 bp	*03:08, 03:29, 03:31, 12:06, 12:08	
<b>66</b>	155 bp	1070 bp	*12:03:01:01-12:03:01:02, 12:03:03- 12:03:06, 12:04:02-12:07, 12:11- 12:13, 12:15, 12:20	
<b>67</b>	145 bp	<b>800 bp</b>	*14:02:01-14:02:02, 14:02:04, 14:04- 14:07N, 14:09	
<b>68</b>	145 bp	<b>800 bp</b>	*04:01:01:01-04:01:05, 04:04:01- 04:05, 04:07-04:15:02, 04:17-04:20, 04:23-04:25, 04:26 <sup>w</sup> , 04:27-04:34, 14:02:03, 14:03, 14:08	
<b>69</b>	245 bp	<b>800 bp</b>	*04:01:01:01-04:01:05, 04:04:01- 04:05, 04:07-04:10, 04:12-04:15:02, 04:17-04:20, 04:23-04:25, 04:26 <sup>w</sup> , 04:27-04:28, 04:30-04:34, 14:04	
<b>70</b>	210 bp	<b>800 bp</b>	*04:01:01:01-04:01:05, 04:03, 04:05, 04:07-04:12, 04:16, 04:18-04:20, 04:23-04:33, 14:02:01-14:04, 14:07N- 14:08, 18:01-18:02	<b>A*24:87, B*15:84</b>
<b>71<sup>5</sup></b>	130 bp	1070 bp	*03:02:01-03:04:07, 03:06-03:13, 03:15-03:24, 03:26, 03:28-03:50, 04:15:01-04:15:02, 04:17, 14:05, 14:09	
<b>72<sup>5,8</sup></b>	110 bp	1070 bp	*02:02:01-02:02:03, 02:02:05-02:07, 02:09-02:22, 04:03, 04:06, 04:16, 14:03, 15:02:01-15:09, 15:11-15:13, 15:15-15:19, 15:21	

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Lot No.: <b>24S</b>	Lot-specific information		<a href="http://www.olerup-ssp.com">www.olerup-ssp.com</a>	
<b>73</b>	210 bp, 330 bp	1070 bp	*02:06, 06:12, 12:15, 15:02:01-15:03, 15:05:01-15:13, 15:15-15:19, 15:21	
<b>74<sup>5</sup></b>	90 bp, 175 bp	1070 bp	*01:03, 03:08, 03:29, 03:31, 07:20, 15:02:01-15:09, 15:12-15:13, 15:15, 15:18-15:19, 15:21	
<b>75</b>	145 bp, 195 bp	1070 bp	*02:12, 03:15, 03:27, 03:38:01- 03:38:02, 04:03, 04:06, 04:16, 07:20, 07:57, 15:03, 15:16	
<b>76</b>	320 bp	<b>800 bp</b>	*01:04, 01:21, 02:02:01-02:02:03, 02:02:05-02:05, 02:08-02:18, 02:20- 02:21, 03:02:01-03:02:03, 03:14- 03:16, 03:33, 03:36, 03:40, 03:42- 03:43:01, 05:04, 06:02:01:01- 06:02:01:02, 06:02:03-06:08, 06:10- 06:17, 07:01:01-07:03, 07:05-07:10, 07:14-07:27:02, 07:30-07:33N, 07:35- 07:40, 07:42-07:44, 07:46-07:57, 08:09, 08:11, 12:02:01-12:14:01, 12:16-12:21, 14:02:01-14:09, 15:04, 15:09, 15:18-15:19, 16:01:01- 16:02:01, 16:04:01, 16:06-16:09, 16:11	
<b>77<sup>5,8</sup></b>	100 bp	<b>800 bp</b>	*15:05:01-15:05:04	
<b>78</b>	210 bp, 240 bp, 315 bp, 360 bp	1070 bp	*01:02:01-01:02:05, 01:05-01:20, 01:22, 02:19, 03:03:01-03:11:02, 03:13, 03:17-03:18, 03:20N-03:25, 03:27-03:32, 03:34-03:35, 03:37- 03:39, 03:41, 03:44-03:50, 06:12, 06:15-06:16N, 07:29, 15:06:01, 15:18	
<b>79<sup>5</sup></b>	140 bp	1070 bp	*01:21, 02:12, 04:11, 04:29, 08:01:01- 08:09, 08:11-08:16, 12:02:01- 12:03:03, 12:03:05-12:03:06, 12:06- 12:08, 12:10:01-12:20, 14:02:03, 14:03, 14:08, 15:07, 15:21, 16:01:01, 16:01:03, 16:04:01, 16:06-16:08, 16:10-16:11	<b>B*35:08:02, B*67:02</b>
<b>80<sup>5,7</sup></b>	70 bp, 160 bp, 210 bp	<b>800 bp</b>	*02:06, 03:12, 03:19, 03:34, 03:44, 12:15, 15:08	<b>B*13:18<sup>w</sup>, B*15:73<sup>w</sup>, B*54:10<sup>w</sup>, B*55:09<sup>w</sup>, 55:21<sup>w</sup></b>
<b>81</b>	435 bp	1070 bp	*02:06, 03:12, 03:19, 12:15, 15:11, 15:16-15:17	<b>B*46:11, B*56:08, 56:14</b>

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<b>82<sup>8</sup></b>	165 bp	1070 bp	*02:08, 03:18, 04:01:01:01-04:01:02, 04:01:04-04:01:05, 04:04:01-04:05, 04:07-04:15:02, 04:17-04:20, 04:23-04:34, 05:01:01:01-05:01:04, 05:03-05:19, 08:01:01-08:13, 08:15-08:16, 12:02:01-12:15, 12:17-12:21, 14:02:01-14:02:04, 14:04-14:09, 15:10:01-15:10:02, 16:01:01-16:02:01, 16:04:01, 16:06-16:11, 17:01:01:01-17:04
<b>83</b>	240 bp, 315 bp, 360 bp	<b>800 bp</b>	*02:06, 03:12, 03:19, 06:15-06:16N, 12:15, 15:02:01-15:03, 15:07-15:08, 15:10:01-15:13, 15:15-15:18, 15:21
<b>84</b>	205 bp	<b>800 bp</b>	*16:01:01-16:02:01, 16:04:01, 16:08-16:11
<b>85</b>	340 bp	1070 bp	*01:14, 02:02:01-02:02:03, 02:02:05-02:11, 02:13-02:22, 03:07, 03:15, 03:45, 04:01:01:01-04:01:05, 04:03-04:10, 04:12-04:20, 04:23-04:28, 04:30-04:34, 05:01:01:01-05:01:04, 05:03-05:19, 06:02:01:01-06:02:01:02, 06:02:03-06:10, 06:12-06:17, 07:07, 07:09, 07:49, 08:10, 12:04:01-12:05, 12:09, 12:21, 14:04, 15:02:01-15:06:01, 15:08-15:13, 15:15-15:19, 16:02:01, 16:09, 17:01:01:01-17:04, 18:01-18:03
<b>86<sup>6,8</sup></b>	150 bp, 415 bp	1070 bp	*07:30, 07:39-07:40
<b>87<sup>8</sup></b>	160 bp	1070 bp	*07:53, 16:01:01-16:02:01, 16:06-16:09, 16:11
<b>88<sup>5</sup></b>	85 bp, 195 bp	1070 bp	*04:23, 04:31
<b>89</b>	345 bp	<b>800 bp</b>	*01:02:01-01:20, 01:22, 03:02:01-03:50, 06:02:01:01-06:02:01:02, 06:02:03-06:04, 06:06-06:16N, 12:03:04, 12:04:01, 14:02:01-14:02:02, 14:02:04, 14:04-14:07N, 14:09, 16:01:02, 17:02, 17:04 <sup>?</sup>
<b>90</b>	350 bp	<b>800 bp</b>	*17:01:01:01, 17:03, 17:04 <sup>?</sup>
<b>91<sup>5</sup></b>	70 bp, 170 bp, 240 bp, 270 bp	<b>800 bp</b>	*05:17, 07:13, 07:28, 07:47-07:48, 07:55N, 17:02, 17:04 <sup>?</sup>
<b>92<sup>9</sup></b>	155 bp, 300 bp	1070 bp	*04:20, 17:03, 17:04 <sup>?</sup>

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<b>93</b> <sup>5,8,9</sup>	90 bp, 210 bp	1070 bp	*14:06, 17:01:01:01, 17:04 <sup>?</sup>
<b>94</b>	560 bp	1070 bp	*07:01:01-07:33N, 07:35-07:57, 18:01, 18:03 <sup>?</sup>
<b>95</b>	220 bp	1070 bp	*04:01:01:01-04:01:05, 04:03-04:20, 04:23-04:34, 18:02, 18:03 <sup>?</sup>
<b>96</b> <sup>10</sup>	-	-	<b>Negative Control</b>

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-C high resolution for frequent alleles SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

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

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an 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.

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well numbers 1, 6, 8, 10 to 12, 14, 20, 21, 23, 26, 28, 29, 31, 37, 38, 46, 47, 55, 56, 61 to 63, 67 to 70, 76, 77, 80, 83, 84 and 89 to 91 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the orientation and identification of the HLA-C high resolution for frequent alleles SSP typing.

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

<sup>3</sup>The Cw\*0101, Cw\*0201, Cw\*020204, Cw\*021603, Cw\*0301, Cw\*0402, Cw\*0421, Cw\*0422, Cw\*0502, Cw\*0601, Cw\*060202, Cw\*0734, Cw\*1101, Cw\*1201, Cw\*1301, Cw\*1401, Cw\*1501, Cw\*1514, Cw\*1603, Cw\*16042 and Cw\*1605 alleles have deleted or renamed.

The following HLA-C alleles have the same amplification patterns:

C*01:06 and C*01:11	C*04:08, C*04:09N and C*04:30	C*07:15 and C*07:38
C*01:15 and C*01:20	C*04:15:02 and C*04:17	C*07:22 and C*07:35
C*01:16, C*01:17, C*01:18 and C*01:19	C*04:18 and C*04:19	C*07:25 and C*07:32N
C*02:03 and C*02:18	C*04:23 and C*04:31	C*07:30 and C*07:40
C*02:05 and C*02:17	C*04:24, C*04:25 and C*04:26	C*07:33N and C*07:51
C*03:09 and C*03:23	C*05:06 and C*05:15	C*07:37 and C*07:54
C*03:21 and C*03:22Q	C*05:14, C*05:16 and C*05:19	C*07:47 and C*07:48
C*03:30 and C*03:50	C*06:08 and C*06:13	C*15:09 and C*15:19
C*03:37 and C*03:46	C*06:15 and C*06:16N	C*15:11 and C*15:17
C*04:07 and C*04:27	C*07:03 and C*07:17	

<sup>4</sup>A few HLA-A and HLA-B alleles will be amplified by primer mixes 6, 8, 10, 13, 16, 18, 19, 31, 34, 40, 43, 44, 48, 52, 59, 61, 70, 79, 80 and 81 due to the sharing of sequence motifs between HLA Class I loci.

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

<sup>6</sup>Primer mixes 3, 5, 10, 40, 44, 45, 57, 61 and 86 may have tendencies of unspecific amplifications, most pronounced in primer mix 10.

<sup>7</sup>Primer mixes 6, 20, 36 and 80 have a tendency to giving rise to primer oligomer formation.

<sup>8</sup>Primer 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.

<sup>9</sup>Primer 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.

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<sup>10</sup>Primer mix 96 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

‘w’, might be weakly amplified.

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

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		INTERPRETATION TABLE																																							
		HLA-C high resolution SSP typing																																							
		Amplification patterns of the HLA-C alleles																																							
		Well <sup>3</sup>																																							
		1								2								3								4															
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8								
Length of spec.		90	95	200	200	100	105	105	105	140	140	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
PCR product(s)			215	290	200	200	210	150	200	135	105	130	105	155	75	280	220	280	275	245	275	185	110	185	110	185	110	185	110	185	110	185	110	185	110	185	110	185	110	185	110
				360			300	210				270	130	505	75							555	185	110	185	110	185	110	185	110	185	110	185	110	185	110	185	110	185	110	185
				565			300	210																																	
							260	210																																	
Length of int.		800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control <sup>1</sup>																																									
Well No.		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
C allele <sup>2</sup>		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
*01:02:01-01:02:05		+																																							
*01:03																																									
*01:04																																									
*01:05			+																																						
*01:06, 01:11			+																																						
*01:07			+																																						
*01:08			+																																						
*01:09			+																																						
*01:10			+																																						
*01:12			+																																						
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*01:14			+																																						
*01:15, 01:20			+																																						
*01:16-01:19			+																																						
*01:21			+																																						
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*03:02:01-03:02:03																																									
*03:03:01-03:03:05																																									
*03:04:01:01-03:04:07																																									
Well No.		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	





























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

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
<b>5'-primer(s)<sup>1</sup></b>	368	98	368	142	361	105	703	232	92	206	105	105
	5'-g Tg 3'	5'-C TC 3'	5'-g Tg 3'	5'-TC C 3'	5'-Ag T 3'	5'-gCT 3'	5'-CT A 3'	5'-Ag A 3'	5'-g Tg 3'	5'-A gA 3'	5'-gCT 3'	5'-gCT 3'
		356	757	244	504	363		486	97	2 <sup>nd</sup> I	992	512
		5'-C CC 3'	5'-CC C 3'	5'-Cg C 3'	5'-CAC 3'	5'-AAT 3'		5'-ACA 3'	5'-TC g 3'	5'-C CA 3'	5'-T AA 3'	5'-g TT 3'
		368	956	406	512	368			113			
		5'-g TC 3'	5'-g gT 3'	5'-gC A 3'	5'-g Tg 3'	5'-g Tg 3'			5'-C CA 3'			
									368			
									5'-g TT 3'			
<b>3'-primer(s)<sup>2</sup></b>	419	154	527	302	473	167	861	302	201	270	134	343
	5'-Cg T 3'	5'-CA g 3'	5'-CC A 3'	5'-gg T 3'	5'-CA A 3'	5'-AC C 3'	5'-T Cg 3'	5'-gg T 3'	5'-C TT 3'	5'-T AC 3'	5'-Ag C 3'	5'-C 3'
		427	619	559	523	323		538	477	418	142	539
		5'-gTg 3'	5'-TTT 3'	5'-CgT 3'	5'-ACA 3'	5'-Ag C 3'		5'-CAg 3'	5'-g CA 3'	5'-gTC 3'	5'-T gA 3'	5'-TC T 3'
		538	956		538	479		578		559	218	
		5'-CCg 3'	5'-CA g 3'		5'-gCA 3'	5'-CC A 3'		5'-Tg T 3'		5'-CgC 3'	5'-gC T 3'	
		539	1043		618	512					231	
		5'-TC T 3'	5'-CA A 3'		5'-C T 3'	5'-CC A 3'					5'-... C 3'	
						538					1016	
						5'-CCA 3'					5'-CA C 3'	
						595						
						5'-CC T 3'						
<b>Well No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
<b>5'-primer(s)<sup>1</sup></b>	112	105	355	98	201	122	341	89	133	361	115	2 <sup>nd</sup> I
	5'-CC T 3'	5'-gCT 3'	5'-TC A 3'	5'-C TA 3'	5'-CCg 3'	5'-C CA 3'	5'-g gA 3'	5'-g AA 3'	5'-CC T 3'	5'-Ag T 3'	5'-gg A 3'	5'-C CA 3'
	419			355		199	363	105	201	419	201	
	5'-g TC 3'			5'-CC C 3'		5'-gT T 3'	5'-Agg 3'	5'-gCT 3'	5'-CCA 3'	5'-g TC 3'	5'-CCg 3'	
						374	527	115	355			
						5'-C TA 3'	5'-T gT 3'	5'-gg A 3'	5'-T C A 3'			
						379			368			
						5'-AC C 3'			5'-g TT 3'			
						406						
						5'-gC A 3'						
						539						
						5'-g Tg 3'						
<b>3'-primer(s)<sup>2</sup></b>	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'-T Ag 3'	5'-Cg T 3'	5'-T gA 3'	5'-A gT 3'	5'-T 3'	5'-A gA 3'	5'-A gT 3'	5'-TC C 3'
	589		589	301	343	589	589		514			
	5'-CTT 3'		5'-CTT 3'	5'-gCC 3'	5'-T 3'	5'-CTT 3'	5'-CTT 3'		5'-CTT 3'			
				589	474				550			
				5'-CTT 3'	5'-g CA 3'				5'-CA T 3'			
									601			
									5'-CTT 3'			
<b>Well No.</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
<b>5'-primer(s)<sup>1</sup></b>	459	112	560	368	369	485	201	105	419	112	379	176
	5'-gAT 3'	5'-CC T 3'	5'-C CT 3'	5'-g TT 3'	5'-TAC 3'	5'-C AA 3'	5'-CCA 3'	5'-gCT 3'	5'-g TC 3'	5'-CC T 3'	5'-AC C 3'	5'-g CA 3'
		486	1018				355	369	697	355		413
		5'-ACA 3'	5'-gTg 3'				5'-CC T 3'	5'-TAC 3'	5'-TC C 3'	5'-C C C 3'		5'-T gT 3'
							485	3rd I		363		420
							5'-C AA 3'	5'-TgT 3'		5'-AgC 3'		5'-TTC 3'
										379		467
										5'-AC g 3'		5'-C TT 3'
												539
												5'-g Cg 3'
<b>3'-primer(s)<sup>2</sup></b>	589	218	3rd I	527	459	601	299	242	601	289	601	221
	5'-CTC 3'	5'-gC g 3'	5'-AC g 3'	5'-CC g 3'	5'-A gA 3'	5'-CTT 3'	5'-TC T 3'	5'-CC A 3'	5'-CTT 3'	5'-AgT 3'	5'-CTT 3'	5'-AC C 3'
		613	3rd I		518		601	539	846	601		256
		5'-gCA 3'	5'-gg A 3'		5'-CC A 3'		5'-CTC 3'	5'-TC T 3'	5'-CAC 3'	5'-CTT 3'		5'-CCA 3'
			1052		616			668				289
			5'-Tg g 3'		5'-Tg T 3'			5'-Tg A 3'				5'-AgC 3'
			1092									589
			5'-T TA 3'									5'-CTT 3'
<b>Well No.</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>



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

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Well No.	37	38	39	40	41	42	43	44	45	46	47	48
<b>5'-primer(s)<sup>1</sup></b>	361	134	28	2 <sup>nd</sup> I	176	2 <sup>nd</sup> I	142	19	86	368	270	368
	5' -Ag T 3' 406	5' -C CA 3'	5' -TC A 3'	5' -C CA 3'	5' -g CA 3'	5' -C CA 3'	5' -TC T 3'	5' -CC T 3'	5' -C AA 3'	5' -g TA 3'	5' -AAC 3'	5' -g TC 3'
	5' -gC C 3' 446						5' -Ag T 3'	5' -ggA 3'	5' -CCC 3'			
	5' -C gT 3' 512							5' -AT A 3'	5' -g TC 3'			
	5' -g TT 3' 1049											
	5' -C 3'											
<b>3'-primer(s)<sup>2</sup></b>	601	341	97	527	302	527	201	70	302	618	341	512
	5' -CTT 3'	5' -Cg T 3'	5' -gTC 3'	5' -CC g 3'	5' -gg T 3'	5' -CC g 3'	5' -C TT 3'	5' -gg C 3'	5' -gg C 3'	5' -C T 3'	5' -Cg T 3'	5' -CC A 3'
	1087			539		538	343	220	474			
	5' -Ag T 3'			5' -TC A 3'		5' -CCg 3'	5' -T 3'	5' -Cg A 3'	5' -g CA 3'			
							5' -ggT 3'	5' -gC g 3'				
							559	538				
							5' -CTC 3'	5' -CCA 3'				
								539				
								5' -TC T 3'				
<b>Well No.</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
<b>5'-primer(s)<sup>1</sup></b>	89	47	89	512	1st I	47	47	410	486	527	368	539
	5' -g AT 3'	5' -A gg 3'	5' -g AA 3'	5' -g Tg 3'	5' -Cg A 3'	5' -A gg 3'	5' -A gg 3'	5' -g Tg 3'	5' -ACg 3'	5' -T AC 3'	5' -g TC 3'	5' -g Cg 3'
	127	419	385		453		218	524			449	
	5' -gg A 3'	5' -g TA 3'	5' -gg T 3'		5' -AAT 3'		5' -g gA 3'	5' -C CA 3'			5' -C CA 3'	
	172				1049		368	539			459	
	5' -TC C 3'				5' -g 3'		5' -g TA 3'	5' -g Tg 3'			5' -gAT 3'	
	410							560			527	
	5' -g TT 3'							5' -C AC 3'			5' -T AC 3'	
	486											
	5' -TAC 3'											
<b>3'-primer(s)<sup>2</sup></b>	218	302	278	601	175	270	90	618	601	595	559	601
	5' -gC T 3'	5' -gg T 3'	5' -g gT 3'	5' -CTT 3'	5' -CC g 3'	5' -T AC 3'	5' -A g 3'	5' -C T 3'	5' -CTT 3'	5' -CCT 3'	5' -CTC 3'	5' -CTT 3'
	618	618	287		527		97				585	
	5' -C T 3'	5' -C T 3'	5' -TCg 3'		5' -CC A 3'		5' -gTA 3'				5' -AgT 3'	
			289		1087		341				598	
			5' -AgC 3'		5' -AgC 3'		5' -Cg g 3'				5' -CTC 3'	
			301				3rd I				603	
			5' -gC A 3'				5' -AT g 3'				5' -T Tg 3'	
			618									
			5' -C T 3'									
<b>Well No.</b>	<b>49</b>	<b>50</b>	<b>51</b>	<b>52</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
<b>5'-primer(s)<sup>1</sup></b>	98	419	361	201	28	361	98	98	98	368	368	134
	5' -C TA 3'	5' -g TC 3'	5' -Ag T 3'	5' -CCA 3'	5' -TC A 3'	5' -Ag T 3'	5' -C TC 3'	5' -C TC 3'	5' -C TC 3'	5' -g TT 3'	5' -g TA 3'	5' -C CA 3'
					431							
					5' -C gT 3'							
<b>3'-primer(s)<sup>2</sup></b>	289	477	538	289	270	474	201	201	302	538	459	201
	5' -AgC 3'	5' -g CA 3'	5' -CCA 3'	5' -AgT 3'	5' -T Ag 3'	5' -g CA 3'	5' -C TC 3'	5' -C TT 3'	5' -gg T 3'	5' -CCg 3'	5' -A gA 3'	5' -C TT 3'
	295				538							
	5' -TCC 3'				5' -CCA 3'							
<b>Well No.</b>	<b>61</b>	<b>62</b>	<b>63</b>	<b>64</b>	<b>65</b>	<b>66</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>70</b>	<b>71</b>	<b>72</b>



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

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Lot No.: 24S

Lot-specific information

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Well No.	73	74	75	76	77	78	79	80	81	82	83	84
<b>5'-primer(s)<sup>1</sup></b>	409	134	134	419	420	376	201	420	270	1 <sup>st</sup> I	376	361
	5' -gg C 3'	5' -C CA 3'	5' -C CA 3'	5' -g TC 3'	5' -TTC 3'	5' -gC T 3'	5' -CCA 3'	5' -TTA 3'	5' -AAg 3'	5' -Cg A 3'	5' -gC T 3'	5' -Ag T 3'
	529	368	512	430		419		421			420	
	5' -Ag A 3'	5' -g Tg 3'	5' -g TT 3'	5' -AC C 3'		5' -g TA 3'		5' -AC C 3'			5' -TTA 3'	
						430		560			501	
						5' -AC C 3'		5' -C gA 3'			5' -...C 3'	
						501						
						5' -...C 3'						
						529						
						5' -Ag A 3'						
<b>3'-primer(s)<sup>2</sup></b>	3 <sup>rd</sup> I	270	289	3rd I	477	3 <sup>rd</sup> I	302	539	420	134	3rd I	527
	5' -CT C 3'	5' -T Ag 3'	5' -AgC 3'	5' -CT C 3'	5' -g Cg 3'	5' -CT C 3'	5' -gg C 3'	5' -TC C 3'	5' -g CT 3'	5' -Ag C 3'	5' -CT C 3'	5' -CC g 3'
		419	616					589				
		5' -Cg A 3'	5' -CgT 3'					5' -CTT 3'				
<b>Well No.</b>	<b>73</b>	<b>74</b>	<b>75</b>	<b>76</b>	<b>77</b>	<b>78</b>	<b>79</b>	<b>80</b>	<b>81</b>	<b>82</b>	<b>83</b>	<b>84</b>

Well No.	85	86	87	88	89	90	91	92	93	94	95
<b>5'-primer(s)<sup>1</sup></b>	1 <sup>st</sup> I	47	419	368	28	20	28	70	20	956	895
	5' -Cg A 3'	5' -A gg 3'	5' -g TC 3'	5' -g TT 3'	5' -TC A 3'	5' -C CA 3'	5' -TC A 3'	5' -gg A 3'	5' -C CA 3'	5' -g gT 3'	5' -gg A 3'
		419					390	347	368		
		5' -g TC 3'					5' -gAA 3'	5' -g TA 3'	5' -g TT 3'		
							411				
							5' -TA g 3'				
							419				
							5' -g TT 3'				
							490				
							5' -C g A 3'				
<b>3'-primer(s)<sup>2</sup></b>	302	289	539	412	201	201	59	201	70	1034	956
	5' -gg T 3'	5' -AgT 3'	5' -TC T 3'	5' -gTC 3'	5' -C TC 3'	5' -C TC 3'	5' -Cg A 3'	5' -C TC 3'	5' -gg C 3'	5' -Ag C 3'	5' -CA g 3'
		527		521			618	459	539		
		5' -CC C 3'		5' -g gA 3'			5' -C T 3'	5' -A gA 3'	5' -TC A 3'		
<b>Well No.</b>	<b>85</b>	<b>86</b>	<b>87</b>	<b>88</b>	<b>89</b>	<b>90</b>	<b>91</b>	<b>92</b>	<b>93</b>	<b>94</b>	<b>95</b>

<sup>1</sup>The nucleotide position, in the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> exon or the 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> intron, matching the specificity-determining 3'-end of the 5'-primer is given. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>2</sup>The nucleotide position, in the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> exon or the 3<sup>rd</sup> intron, matching the specificity-determining 3'-end of the 3'-primer is given in the anti-sense direction. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://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.: **24S**

Lot-specific information

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<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-C high resolution SSP primer set</b>																			
			Prod. No.:	Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				2013-175-01	2013-175-02	2013-175-03	2013-175-04	2013-175-05	2008-497-06	2013-175-07	2013-175-08	2008-497-09	2008-497-10	2009-668-11	2008-497-12	2008-497-13	2009-668-14	2008-497-15	2009-668-16
	IHCcell line	C*																	
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	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.: **24S**

Lot-specific information

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CELL LINE VALIDATION SHEET																				
HLA-C high resolution SSP primer set																				
				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	2008-497-17	2008-497-18	2009-668-19	2013-175-20	2013-175-21	2008-497-22	2013-175-23	2008-497-24	2008-497-25	2009-668-26	2008-497-27	2013-175-28	2008-497-29	2008-497-30	2008-497-31	2008-497-32
	IHWC cell line		C*																	
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*07:01	*15:05	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*12:02		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
4	9275 GU373		*03:04	*04:01	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
5	9009 KAS011		*06:02		-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
6	9353 SM		*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL		*05:01		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
8	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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<b>CELL LINE VALIDATION SHEET</b>																					
<b>HLA-C high resolution SSP primer set</b>																					
				Prod. No.:	Well																
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
					2011-934-33	2008-497-34	2008-497-35	2009-668-36	2008-497-37	2008-497-38	2008-497-39	2008-497-40	2008-497-41	2009-668-42	2008-497-43	2009-668-44	2008-497-45	2008-497-46	2008-497-47	2008-497-48	
	IHWC cell line		C*																		
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
2	9280 LK707		*07:01	*15:05	-	-	-	-	-	-	-	+	-	-	-	-	-	+	+	-	-
3	9011 E4181324		*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*03:04	*04:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
5	9009 KAS011		*06:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL		*05:01		-	-	+	-	-	-	-	-	+	+	-	-	-	-	-	-	-
8	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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<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-C high resolution SSP primer set</b>																			
			Prod. No.:	Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				2008-497-49	2008-497-50	2008-497-51	2013-175-52	2013-175-53	2008-497-54	2013-175-55	2013-175-56	2009-668-57	2013-175-58	2008-497-59	2008-497-60	2008-497-61	2008-497-62	2008-497-63	2008-497-64
	<b>IHWc cell line</b>	<b>C*</b>																	
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

Visit [www.olerup-ssp.com](http://www.olerup-ssp.com) for  
 “Instructions for Use” (IFU)

Lot No.: **24S**

Lot-specific information

[www.olerup-ssp.com](http://www.olerup-ssp.com)

CELL LINE VALIDATION SHEET																				
HLA-C high resolution SSP primer set																				
				Well																
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
				Prod. No.:	2011-934-65	2008-497-66	2008-497-67	2008-497-68	2008-497-69	2013-175-70	2009-668-71	2009-668-72	2008-497-73	2008-497-74	2008-497-75	2008-497-76	2008-497-77	2008-497-78	2008-497-79	2008-497-80
	IHCcell line		C*																	
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*07:01	*15:05	-	-	-	-	-	-	-	+	+	+	-	+	+	-	-	-
3	9011 E4181324		*12:02		-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
4	9275 GU373		*03:04	*04:01	-	-	-	+	+	+	+	-	-	-	-	-	-	+	-	-
5	9009 KAS011		*06:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
6	9353 SM		*03:04	*07:02	-	-	-	-	-	-	+	-	-	-	-	+	-	+	-	-
7	9020 QBL		*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	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.: **24S**

Lot-specific information

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CELL LINE VALIDATION SHEET																					
HLA-C high resolution SSP primer set																					
				Well																	
				81	82	83	84	85	86	87	88	89	90	91	92	93	94	95			
				Prod. No.:	2013-175-81	2008-497-82	2008-497-83	2008-497-84	2008-497-85	2013-175-86	2013-175-87	2008-497-88	2008-497-89	2008-497-90	2013-175-91	2008-497-92	2009-668-93	2008-497-94	2008-497-95		
IHWC cell line		C*																			
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280 LK707	*07:01	*15:05	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-	
3	9011 E4181324	*12:02		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275 GU373	*03:04	*04:01	-	+	-	-	+	-	-	-	-	+	-	-	-	-	-	-	+	
5	9009 KAS011	*06:02		-	-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	
7	9020 QBL	*05:01		-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
8	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.: **24S**

Lot-specific information

[www.olerup-ssp.com](http://www.olerup-ssp.com)**CERTIFICATE OF ANALYSIS****Olerup SSP® HLA-C high resolution for frequent alleles SSP**

Product number: 101.707-12 – including *Taq* polymerase  
 101.707-12u – without *Taq* polymerase

Lot number: 24S

Expiry date: 2015-December-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

**Well specifications:**

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2013-175-01	33	2011-934-33	65	2011-934-65
2	2013-175-02	34	2008-497-34	66	2008-497-66
3	2013-175-03	35	2008-497-35	67	2008-497-67
4	2013-175-04	36	2009-668-36	68	2008-497-68
5	2013-175-05	37	2008-497-37	69	2008-497-69
6	2008-497-06	38	2008-497-38	70	2013-175-70
7	2013-175-07	39	2008-497-39	71	2009-668-71
8	2013-175-08	40	2008-497-40	72	2009-668-72
9	2008-497-09	41	2008-497-41	73	2008-497-73
10	2008-497-10	42	2009-668-42	74	2008-497-74
11	2009-668-11	43	2008-497-43	75	2008-497-75
12	2008-497-12	44	2009-668-44	78	2008-497-76
13	2008-497-13	45	2008-497-45	77	2008-497-77
14	2009-668-14	46	2008-497-46	78	2008-497-78
15	2008-497-15	47	2008-497-47	79	2008-497-79
16	2009-668-16	48	2008-497-48	80	2008-497-80
17	2008-497-17	49	2008-497-49	81	2013-175-81
18	2008-497-18	50	2008-497-50	82	2008-497-82
19	2009-668-19	51	2008-497-51	83	2008-497-83
20	2013-175-20	52	2013-175-52	84	2008-497-84
21	2013-175-21	53	2013-175-53	85	2008-497-85
22	2008-497-22	54	2008-497-54	86	2013-175-86
23	2013-175-23	55	2013-175-55	87	2013-175-87
24	2008-497-24	56	2013-175-56	88	2008-497-88
25	2008-497-25	57	2009-668-57	89	2008-497-89
26	2009-668-26	58	2013-175-58	90	2008-497-90
27	2008-497-27	59	2008-497-59	91	2013-175-91
28	2013-175-28	60	2008-497-60	92	2008-497-92
29	2008-497-29	61	2008-497-61	93	2009-668-93
30	2008-497-30	62	2008-497-62	94	2008-497-94
31	2008-497-31	63	2008-497-63	95	2008-497-95
32	2008-497-32	64	2008-497-64		

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

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Lot No.: **24S**

Lot-specific information

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The specificity of each primer solution of the HLA-C high resolution for frequent alleles primer set has been tested against 48 well characterized IHWC 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, 49, 51, 53, 55, 56, 58, 59, 65, 80, 81, 86 and 88. The specificity of most of the primers in these solutions was tested by separately adding one or more additional 5'-primer, respectively one or more additional 3'-primer. In primer solutions 2 to 5, 8, 9, 18, 20, 21, 23, 31, 33, 34, 36, 37, 44, 45, 49, 51, 56, 59, 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, 21, 26, 27, 29, 32, 36, 43, 44, 51, 55, 58, 59, 61, 75, 79, 86 and 88 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, 91, 92 and 93 were tested by separately adding one or more additional 3'-primer, respectively one or more additional 5'-primer.

The negative control primer pairs, **Production No. 2013-165-01**, can detect contamination with PCR products diluted  $10^{-7}$ .

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

**Date of approval:** 2013-July-18

**Approved by:**

## Production Quality Control

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

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Lot No.: **24S**

Lot-specific information

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## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-C high resolution for frequent alleles  
**Product number:** 101.707-12/12u  
**Lot number:** 24S

**Intended use:** HLA-C high resolution for frequent alleles histo-  
compatibility testing

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

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2012, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex III, as transposed into the national laws of the Member States of the European Union.

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

Stockholm, Sweden

Daniel Malica  
Head of QA and Regulatory Affairs

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.: **24S**

Lot-specific information

[www.olerup-ssp.com](http://www.olerup-ssp.com)

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.: **24S**

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