

101.601-24/12 – including *Taq* pol., IFU-01  
 101.601-24u/12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **8D8**

Lot-specific information

**Olerup SSP® HLA-C low resolution**

|   |  |
|---|--|
| <b>Product number:</b>                  | 101.601-24/12 – including <i>Taq</i> pol.<br>101.601-24u/12u – without <i>Taq</i> pol. |
| <b>Lot number:</b>                      | 8D8  |
| <b>Expiry date:</b>                     | 2018-10-01   |
| <b>Number of tests:</b>                 | 24 tests – Product No. 101.601-24/24u<br>12 tests – Product No. 101.601-12/12u         |
| <b>Number of wells per test:</b>        | 31 + 1   |
| <b>Storage - pre-aliquoted primers:</b> | 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. 8D8.**

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 LOW RESOLUTION LOT (28Y)**

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

The HLA-C low resolution specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP®* HLA-C low resolution lot was made (**Lot No. 28Y**). 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.

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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   |
|------|-----------|-----------|---|
| 8    | -         | Added     | 3'-primer added for the C*15:107allele.                                 |
| 11   | -         | Added     | 3'-primer added for the C*04:214 allele.                                |
| 14   | Added     | -         | 5'-primer added for improved allelic resolution of the C*12:169 allele. |
| 20   | Added     | Added     | Primer pair added for improved allelic resolution of the C*01 alleles.  |
| 31   | -         | -         | Strength of control band has been optimized for improved yield.         |

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Well **32** 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                   |
|------------------------------|----------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <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>            | <b>36</b>            |
|                              | 5'-CAC <sup>3'</sup> | 5'-Agg <sup>3'</sup>    | 5'-TTA <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-TAC <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>36</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-TAT <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>            | <b>47</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> | 5'-ACA <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>48</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-gCA <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>48</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-gCC <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>52</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-TgT <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>             |                      |
| <b>DQA1</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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Lot-specific information

## PRODUCT DESCRIPTION

### HLA-C-low resolution SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for grouping the HLA-C\*01:02 to C\*18:10 alleles into the groups C\*01:xx to C\*18:xx.

#### PLATE LAYOUT

Each test consists of 32 PCR reactions in a 32 well cut PCR plate.

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | NC |

The 32 well cut PCR plate is marked with 'HLA-C low' in silver/gray ink.

Well No. 1 is marked with the Lot No. '8D8'.

Wells 1 to 31 – HLA-C low resolution primers.

Well 32 – Negative Control.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded. The PCR plates are covered with a PCR-compatible foil.

**Please note:** When removing each 32 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

#### INTERPRETATION

Only HLA-C alleles will be amplified by the HLA-C low resolution screening typing kit, except that that a few HLA-A and HLA-B alleles will be amplified by primer mixes 1, 3, 8, 13, 15, 16, 20, 22, 23, 26, 27, 29 and 30.

For further details see Specificity Table.

#### 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<sup>1,2</sup> will be amplified by the primers in the HLA-C low resolution SSP kit<sup>3</sup>. The HLA-C alleles will be grouped into the C\*01xx to C\*18xx groups.

<sup>1</sup>HLA-C alleles listed on the IMGT/HLA web page 2016-January-19, release 3.23.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>Alleles 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>.

<sup>3</sup>The C\*14:06, 14:09, 14:28:01-14:28:02 and 14:63 and the A\*30:62, B\*35:252 and B\*39:114 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-A low primer set and respective by the HLA-B low primer set.

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Lot-specific information  
**SPECIFICITY TABLE**

**HLA-C low resolution SSP typing**

**Specificities and sizes of the PCR products of the 31+1 primer mixes used for HLA-C low resolution SSP typing**

| Primer Mix               | Size of spec. PCR product <sup>1</sup>  | Size of control band <sup>2</sup> | Amplified HLA class I alleles <sup>3,4</sup>   |
|--------------------------|---|-----------------------------------|--|
| <b>1<sup>13</sup></b>    | 90 bp,<br>150 bp                        | <b>800 bp</b>                     | *01:02:01-01:119, 04:71, 07:316, 07:338, 14:58, 15:104, <b>B*39:76, B*54:18</b>  |
| <b>2<sup>5,15</sup></b>  | 130 bp,<br>200 bp,<br>270 bp,<br>300 bp | <b>800 bp</b>                     | *01:10, 01:43, 02:02:01-02:02:03, 02:02:05-02:40:02, 02:42-02:57, 02:59-02:112, 04:32, 04:77, 05:105, 06:08, 07:101, 07:148, 07:161, 08:31, 12:119, 14:25, 15:42, 15:111, 16:29, 16:50, 17:01:01-01-17:06, 17:08-17:16, 17:18-17:22, 17:24-17:31, 18:03  |
| <b>3<sup>15,16</sup></b> | 280 bp                                  | <b>800 bp</b>                     | *02:02:01-02:02:03, 02:02:05-02:02:29, 02:03, 02:04 <sup>w</sup> , 02:05:01-02:13, 02:14:01 <sup>w</sup> , 02:15-02:25Q, 02:26:02-02:40:02, 02:42-02:86, 02:88-02:106, 02:108-02:112, 03:02:01-03:02:09, 03:02:11-03:02:14, 03:04:01-03:04:25, 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 <sup>w</sup> , 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>B*58:74</b> |
| <b>4<sup>6</sup></b>     | 170 bp,<br>275 bp                       | 1070 bp                           | *03:02:01-03:02:12, 03:02:14-03:04:06, 03:04:08-03:11:02, 03:13:01-03:15, 03:17-03:40:04, 03:42-03:57:02, 03:59-03:79, 03:81-03:85, 03:87:01-03:93, 03:95-03:98, 03:100-03:109, 03:111-03:112, 03:114-03:150, 03:152-03:164, 03:166-03:250, 03:252-03:259, 03:261-03:266, 03:268-03:285, 03:287-03:292, 03:294-03:312, 04:212, 07:242  |
| <b>5</b>                 | 280 bp                                  | <b>800 bp</b>                     | *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 <sup>w</sup> , 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,  |

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|                             |                              |               |   |
|-----------------------------|------------------------------|---------------|---|
|                             |                              |               | 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 <sup>w</sup> , 03:304, 03:307-03:308, 03:312, 15:12   |
| <b>6<sup>16</sup></b>       | 135 bp,<br>330 bp            | <b>800 bp</b> | *02:02:01-02:02:03, 02:02:05-02:02:12, 02:02:14-02:02:25, 02:02:27-02:02:28, 02:02:30-02:20, 02:22-02:25Q, 02:27:01-02:38N, 02:40:01-02:40:02, 02:42-02:44, 02:46-02:86, 02:88-02:100, 02:101 <sup>w</sup> , 02:102-02:106, 02:108-02:112, 03:231, 04:01:01:01-04:01:27, 04:01:29-04:01:60, 04:01:62, 04:01:64, 04:01:66-04:01:70, 04:03:01-04:15:03, 04:17-04:20, 04:23-04:41, 04:43-04:102, 04:104-04:139, 04:141-04:195, 04:197-04:212, 04:214-04:219, 04:221-04:230, 05:26, 05:78, 07:02:09, 07:125, 07:356, 15:11, 15:36, 15:118, 16:34  |
| <b>7<sup>7</sup></b>        | 165 bp,<br>390 bp,<br>445 bp | 1070 bp       | *02:94, 04:129, 05:01:01:01-05:01:31, 05:03-05:127, 06:05, 06:67, 08:10, 12:21, 12:33, 15:107, 16:40, 16:53, 17:05  |
| <b>8<sup>13</sup></b>       | 125 bp,<br>355 bp            | <b>800 bp</b> | *01:90, 01:101-01:102, 01:113, 02:06:01-02:06:02, 02:23, 02:36, 02:47, 04:108 <sup>w</sup> , 04:178, 06:02:01:01-06:02:01:03, 06:02:03-06:02:38, 06:02:40-06:16N, 06:18-06:31, 06:33-06:76:01, 06:77-06:93, 06:96-06:98, 06:100-06:132:01, 06:133-06:173, 08:113, 12:02:11, 12:03:09, 12:03:26, 12:15, 12:113, 15:02:01:01-15:03, 15:05:01 <sup>w</sup> -15:05:11 <sup>w</sup> , 15:06:01-15:13, 15:15-15:19, 15:21, 15:22 <sup>w</sup> -15:23 <sup>w</sup> , 15:26-15:28, 15:29 <sup>w</sup> , 15:31-15:35, 15:36 <sup>w</sup> , 15:37-15:39, 15:41-15:45, 15:46 <sup>w</sup> , 15:47-15:53, 15:54 <sup>w</sup> , 15:55-15:58, 15:59 <sup>w</sup> , 15:60-15:64, 15:67-15:68, 15:69 <sup>w</sup> -15:70 <sup>w</sup> , 15:71-15:75, 15:78-15:89, 15:90 <sup>w</sup> , 15:91-15:101, 15:103, 15:104 <sup>w</sup> -15:105Q <sup>w</sup> , 15:106-15:107, 15:108 <sup>w</sup> , 15:109, 15:110 <sup>w</sup> -15:111 <sup>w</sup> , 15:112-15:114, 15:115N <sup>w</sup> -15:117 <sup>w</sup> , 15:118-15:121, 16:01:16, 16:20, <b>B*58:02:01</b> |
| <b>9<sup>8</sup></b>        | 245 bp,<br>425 bp            | <b>800 bp</b> | *07:01:01:01-07:33N, 07:35-07:294, 07:296-07:487  |
| <b>10<sup>9,13,16</sup></b> | 110 bp,<br>165 bp,<br>390 bp | <b>800 bp</b> | *01:43, 02:87, 03:280, 07:101, 07:148, 07:161, 08:01:01-08:63, 08:65-08:128, 12:127   |
| <b>11<sup>14,16</sup></b>   | 340 bp                       | 1070 bp       | *01:14, 01:59, 01:118, 02:02:01-02:02:03, 02:02:05-02:11, 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, 03:231, 03:243, 03:248, 03:268, 03:297, 04:01:01:01-04:01:70, 04:03:01-04:20, 04:23-04:230, 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, 07:125, 07:210, 07:238, 07:247, 07:315, 07:328, 07:356, 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, 16:62-16:63, 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   |
| <b>12<sup>10,13</sup></b>   | 100 bp,<br>155 bp,<br>220 bp | <b>800 bp</b> | *01:02:18, 01:04, 01:21, 06:02:38, 06:76:02, 12:02:01-12:03:01:03, 12:03:03-12:03:07, 12:03:09-12:03:15, 12:03:17-12:03:19, 12:03:21-12:03:29, 12:03:31-12:03:33, 12:03:35-12:03:37, 12:04:02-12:08, 12:10:01-12:13, 12:14:02-12:18:01, 12:19-12:25, 12:27-12:32, 12:34-12:58, 12:60-12:143, 12:145-12:170, 12:172, 14:02:08, 16:01:17, 16:02:13, 16:15:02  |
| <b>13<sup>13,14</sup></b>   | 120 bp,<br>250 bp            | <b>800 bp</b> | *01:21, 02:12, 02:49, 02:55:01-02:55:02, 04:01:01:01-04:01:70, 04:03:01-04:09N, 04:12-04:20, 04:23-04:35, 04:37-04:54, 04:56-   |



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| <b>14</b> <sup>13,17</sup> | 95 bp,<br>160 bp,<br>215 bp  | <b>800 bp</b> | *01:04, 01:09, 01:21, 02:05:01-02:05:03, 02:17, 04:42:01-04:42:02, 04:220, 06:02:01:01-06:02:01:03, 06:02:03-06:02:15, 06:02:17-06:02:42, 06:02:44-06:03:02, 06:07-06:13, 06:15-06:34:02, 06:36-06:39, 06:41-06:71, 06:73-06:78, 06:80, 06:82-06:100, 06:102-06:122, 06:124-06:126, 06:128N-06:135, 06:137-06:142, 06:145-06:152N, 06:154-06:173, 07:01:20, 07:01:27, 07:02:38, 07:31:01-07:31:02, 07:125, 07:177, 07:356, 12:02:01-12:02:05, 12:02:07, 12:02:09-12:02:11, 12:02:13-12:08, 12:10:01-12:13, 12:14:02-12:17, 12:19, 12:22-12:23, 12:25-12:82, 12:84N, 12:86-12:117, 12:119-12:136, 12:138-12:152, 12:154-12:170, 12:172, 14:15-14:16, 16:04:01, 16:04:03, 16:29, 16:33, 16:35, 16:42, 16:48, 16:55, 16:61, 16:66, 16:78, 16:82, 16:91  |
| <b>15</b> <sup>15</sup>    | 130 bp,<br>255 bp            | <b>800 bp</b> | *02:02:01 <sup>w</sup> , 02:02:02:01-02:02:03, 02:02:05-02:13, 02:15-02:26:03, 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, 03:302, 04:03:01-04:03:02, 04:06, 04:16, 04:37, 04:80, 04:103, 04:107, 04:147, 04:160, 04:171, 04:190, 05:01:01:01-05:01:31, 05:03-05:19, 05:21-05:42, 05:44:01-05:77, 05:79-05:112, 05:114-05:127, 06:03:01-06:03:02, 06:76:01-06:76:02, 06:132:01-06:132:02, 08:10, 12:04:01-12:05, 12:09, 12:21, 12:33, 12:41, 12:60, 12:72, 12:135, 12:146, 12:154, 14:45, 15:02:01:01-15:06:03, 15:08-15:13, 15:15-15:19, 15:21-15:22, 15:24, 15:26-15:35, 15:37-15:42, 15:44-15:62, 15:64-15:84Q, 15:86-15:121, 16:02:01-16:02:13, 16:09, 16:12, 16:19, 16:25, 16:37, 16:46-16:48, 16:60, 16:63, 16:69-16:70, 16:74, 16:77N, 16:84, 16:88-16:91, 17:01:01:01-17:19, 17:21, 17:23-17:31, 18:09, <b>B*15:277, B*35:222, B*42:22</b> |
| <b>16</b> <sup>15</sup>    | 160 bp,<br>260 bp,<br>445 bp | 1070 bp       | *01:67, 03:155, 03:231, 04:11, 04:29, 04:36, 04:55, 04:114, 04:172, 07:64, 07:402, 08:95, 12:55, 14:02:01-14:11, 14:13-14:48, 14:50-14:73, 16:40, 16:53, <b>A*30:62, B*35:252, B*39:114</b>  |
| <b>17</b> <sup>11,13</sup> | 110 bp,<br>325 bp            | <b>800 bp</b> | *01:90, 01:101-01:102, 01:113, 01:116, 02:06:01-02:06:02, 02:23, 02:36, 02:68, 03:81, 03:175, 03:199, 03:245, 04:108, 04:112, 04:169, 04:178, 05:36, 06:89, 07:123, 07:173, 07:294, 08:113, 12:08, 12:15, 12:81, 12:113, 15:02:01:01-15:13, 15:15-15:19, 15:21-15:24, 15:26-15:121, 16:20, 16:64, 16:70, 16:87   |
| <b>18</b> <sup>15,16</sup> | 180 bp,<br>210 bp,<br>240 bp | 1070 bp       | *02:13, 02:18, 02:33, 02:49, 02:75, 04:01:01:01-04:01:22, 04:01:24-04:01:70, 04:03:01-04:10, 04:12-04:20, 04:23-04:32, 04:34-04:106, 04:108-04:115N, 04:117-04:129, 04:131-04:168, 04:170N-04:171, 04:173N-04:230, 05:17, 05:25, 05:42, 05:55, 05:68, 05:76, 05:79, 05:115, 06:05, 06:31, 06:76:02, 06:118, 07:02:09, 07:31:01-07:31:02, 07:154, 07:177, 08:01:01-08:01:17, 08:01:19, 08:03:01-08:03:03, 08:06, 08:08:01-08:11, 08:14, 08:16:01-08:16:02, 08:20-08:22, 08:24, 08:26N, 08:28, 08:36N, 08:38, 08:40-08:42, 08:44, 08:46-08:47, 08:50, 08:56-08:61, 08:65, 08:72:01-08:72:02, 08:78-08:89N, 08:91, 08:95-08:99, 08:101-08:102, 08:105-08:106, 08:109, 08:117-08:119,  |

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 101.601-24u/12u – without *Taq* pol., IFU-02

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|                           |                   |               | 08:121N-08:122, 08:124, 08:127N-08:128, 12:14:01-12:14:02, 12:28, 12:58, 12:132, 12:135, 12:146, 12:169, 14:10, 14:15, 14:17, 15:12, 15:25, 15:31, 15:62, 15:65, 15:75, 16:01:01:01-16:02:13, 16:04:01, 16:04:03, 16:06-16:39:02, 16:41-16:42, 16:44-16:52, 16:54-16:92  |
| <b>19<sup>18</sup></b>    | 225 bp,<br>250 bp | <b>800 bp</b> | *01:60, 04:58, 04:160, 05:23, 05:62, 06:118, 08:07, 08:47, 08:104, 12:14:01-12:14:02, 14:17, 15:25, 15:65, 17:01:01:01-17:31   |
| <b>20<sup>15</sup></b>    | 215 bp,<br>420 bp | <b>800 bp</b> | *01:02:01-01:20, 01:22-01:119, 03:58, 03:86, 03:94, 03:99, 04:37, 04:230, 05:16, 05:85, 05:107, 06:05-06:06, 06:17, 06:31, 07:07, 07:09, 07:39-07:40, 07:49, 07:76:01-07:76:02, 07:177, 07:210, 07:238, 07:247, 07:315, 07:328, 07:335, 07:403, 07:406, 08:12, 12:09, 12:24, 14:02:01-14:05, 14:07N, 14:10-14:14, 14:17-14:27, 14:29-14:52, 14:55-14:62, 14:64-14:73, 15:102, 16:04:01, 16:04:03, 16:29, 16:33, 16:42, 16:53, 16:55, 16:61, 16:66, 16:68, 16:78, 16:82, 16:88, 16:91, 18:01-18:10, <b>B*07:239, B*14:03</b>  |
| <b>21</b>                 | 325 bp,<br>380 bp | 1070 bp       | *01:03, 01:24, 01:34, 01:49:01-01:50, 01:55, 01:78, 02:22, 02:62, 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, 03:37:01-03:59, 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, 03:111-03:120, 03:122-03:131, 03:133-03:134, 03:136-03:138, 03:140-03:145, 03:147-03:153, 03:155-03:166, 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, 03:250-03:257, 03:259-03:261, 03:262 <sup>?</sup> , 03:263, 03:265N-03:270, 03:272-03:291, 03:293-03:295, 03:297, 03:303-03:312, 04:01:01:01-04:01:15, 04:01:17-04:01:70, 04:03:01-04:20, 04:24-04:53, 04:55-04:71, 04:73-04:107, 04:109-04:230, 05:01:01:01-05:01:31, 05:03, 05:05-05:21, 05:23-05:102, 05:104-05:106, 05:108-05:122, 05:124-05:127, 06:09, 06:14, 06:35, 06:72, 06:143-06:144, 07:10, 07:28, 07:41, 07:43, 07:184, 07:196, 07:367, 08:01:01-08:08:02, 08:10, 08:12-08:47, 08:49-08:63, 08:65-08:82, 08:84-08:107, 08:109-08:112, 08:114-08:128, 12:31, 12:44, 12:144, 14:54, 15:02:01:01-15:13, 15:15-15:19, 15:21, 15:23-15:36, 15:38-15:54, 15:56-15:57, 15:59-15:64, 15:66-15:71, 15:73-15:101, 15:103-15:121, 16:45, 17:01:01:01-17:31, 18:01-18:10 |
| <b>22<sup>15,18</sup></b> | 135 bp            | <b>800 bp</b> | *02:02:29, 03:02:01-03:02:09, 03:02:11-03:03:20, 03:03:22-03:04:24, 03:04:27-03:11:02, 03:13:01-03:17, 03:18:02-03:38:02, 03:40:01-03:64:01, 03:65-03:66, 03:67 <sup>w</sup> , 03:68-03:98, 03:100-03:136, 03:138-03:143, 03:146-03:155, 03:157-03:165, 03:167-03:169Q, 03:171, 03:173-03:181, 03:183-03:194, 03:196-03:230, 03:232-03:247, 03:249-03:263, 03:265N-03:277N, 03:278 <sup>w</sup> , 03:279-03:294, 03:295 <sup>w</sup> , 03:296-03:312, 04:32, 04:77, 06:03:01, 06:132:01-06:132:02, 07:96:01-07:96:02, 07:314:02, 14:25, 15:02:10, 15:02:17, 15:43, 18:03, <b>B*13:13:02</b>  |
| <b>23</b>                 | 155 bp,<br>235 bp | 1070 bp       | *04:42:01-04:42:02, 04:220, 06:02:01:01-06:02:01:03, 06:02:03-06:02:44, 06:04:01-06:75, 06:78-06:131, 06:133-06:173, 07:01:01:01-07:01:40, 07:01:41 <sup>w</sup> , 07:01:42-07:02:07, 07:02:09-07:02:28, 07:02:30-07:02:40, 07:02:41 <sup>w</sup> , 07:02:42-07:25, 07:27:01-07:32N, 07:35-07:38:02, 07:41-07:63, 07:65-07:91, 07:93-07:95, 07:97-07:138, 07:140-07:151, 07:153-07:155, 07:157-07:176, 07:178-07:209, 07:211-07:237, 07:239-07:245, 07:247-07:266, 07:268-07:294, 07:297-07:313, 07:315-07:316, 07:318-07:321, 07:323-07:334, 07:336-07:350N, 07:352-07:401, 07:403-07:404, 07:406-07:414, 07:415 <sup>w</sup> -07:416 <sup>w</sup> , 07:417-07:448, 07:450-07:487, 12:16, 12:147, 17:20, 18:01-18:08, 18:10, <b>B*08:145</b>  |
| <b>24<sup>13</sup></b>    | 95 bp,<br>475 bp, | <b>800 bp</b> | *02:02:01-02:02:03, 02:02:06-02:02:12, 02:02:15-02:02:30, 02:04, 02:05:02-02:05:03, 02:06:02-02:09, 02:11, 02:13, 02:15, 02:19-  |





101.601-24/12 – including *Taq* pol., IFU-01  
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|                           | 590 bp                       |               | 02:27:01, 02:28-02:31, 02:34-02:40:01, 02:42-02:50, 02:52N-02:55:01, 02:56-02:57, 02:59-02:71, 02:74-02:75, 02:77-02:88, 02:90-02:93, 02:96-02:108, 02:111-02:112, 03:287, 05:16, 05:106, 06:05, 06:67, 08:01:19, 08:02:02, 08:12, 08:126, 12:03:17, 12:21, 12:33   |
| <b>25<sup>12,15</sup></b> | 260 bp,<br>320 bp,<br>360 bp | 1070 bp       | *02:49, 02:75, 03:231, 03:248, 03:308, 04:01:01-04:01:70, 04:03:01-04:20, 04:23-04:212, 04:214-04:225N, 04:227-04:230, 05:78, 06:02:37, 06:120, 06:127:02, 07:01:07, 07:04:03, 07:14, 07:27:02, 07:31:02, 07:199:02, 12:132, 12:146, 15:100, 16:34, 16:62   |
| <b>26</b>                 | 155 bp,<br>225 bp            | 1070 bp       | *01:02:01-01:03, 01:06-01:07:01, 01:08, 01:10-01:20, 01:23-01:34, 01:37N-01:48, 01:51-01:54, 01:56N-01:78, 01:80-01:119, 02:12, 02:49, 02:55:01-02:55:02, 03:15, 03:27, 03:38:01-03:38:02, 03:58, 03:69, 03:86, 03:94, 03:99, 03:130, 03:136, 03:163, 03:246, 03:274, 03:297, 04:03:01, 04:06, 04:16, 04:37, 04:80, 04:103, 04:107, 04:129, 04:147, 04:160, 04:171, 04:190, 04:230, 05:16, 05:42, 05:46, 05:85, 05:107, 06:03:01-06:03:02, 06:05-06:06, 06:67, 06:76:01-06:76:02, 06:132:01-06:132:02, 07:26:01-07:26:02, 07:92, 07:96:01-07:96:02, 07:101, 07:148, 07:161, 07:314:01-07:314:02, 07:317, 07:351, 08:05, 08:12, 08:21, 08:25, 12:02:01-12:03:12, 12:03:13 <sup>w</sup> , 12:03:14-12:04:02, 12:06-12:15, 12:17-12:20, 12:22-12:32, 12:34-12:48, 12:50-12:54, 12:56-12:97, 12:99-12:146, 12:148N-12:170, 12:172, 14:02:01-14:05, 14:07N, 14:10-14:14, 14:17-14:27, 14:29-14:52, 14:55-14:62, 14:64-14:73, 15:03, 15:16, 15:25, 15:102, 16:15:01-16:15:02, 16:25, 16:53, 16:64, 16:68, 16:88, 17:01:01-17:19, 17:21-17:26, 17:27N <sup>w</sup> , 17:28-17:31, 18:09, <b>B*07:13, B*07:15, B*07:160, B*07:239, B*14:03, B*67:02</b>                     |
| <b>27</b>                 | 140 bp                       | 1070 bp       | *01:02:34, 01:21, 02:12 <sup>w</sup> , 02:27:01-02:27:02, 02:87, 03:04:25, 04:11, 04:29, 04:36, 04:55, 04:172, 04:214 <sup>w</sup> , 07:02:09, 08:01:01-08:02:10, 08:02:12-08:09, 08:11-08:63, 08:65-08:94, 08:95 <sup>w</sup> , 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 <sup>w</sup> , 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, 12:61-12:71, 12:72 <sup>w</sup> , 12:73-12:122, 12:124-12:134, 12:135 <sup>w</sup> , 12:136-12:145, 12:147-12:153, 12:154 <sup>w</sup> , 12:155Q-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 <sup>w</sup> , 15:25, 15:116 <sup>w</sup> , 16:01:01-16:01:02, 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, 16:26-16:36, 16:37 <sup>w</sup> , 16:38-16:45, 16:49-16:56, 16:58-16:59, 16:61-16:62, 16:64-16:68, 16:71 <sup>w</sup> , 16:72-16:73, 16:75-16:76, 16:78-16:83, 16:86-16:87, 16:92, <b>B*35:08:02, B*35:08:05, B*67:02</b> |
| <b>28<sup>15</sup></b>    | 215 bp,<br>555 bp            | 1070 bp       | *01:97, 01:114, 03:58, 03:86, 03:94, 03:99, 03:209, 03:302, 04:09N, 05:85, 05:107, 14:02:01-14:04, 14:07N, 14:10-14:14, 14:17-14:27, 14:29-14:34, 14:35N <sup>w</sup> , 14:36-14:44, 14:46:01-14:52, 14:55-14:62, 14:64-14:73, 15:37, 15:102, 16:18   |
| <b>29<sup>14</sup></b>    | 175 bp,<br>270 bp            | <b>800 bp</b> | *01:35, 01:107, 02:58, 03:08, 03:29, 03:31, 03:246, 04:08, 04:34, 04:147, 04:212, 05:27, 05:39, 06:96, 07:20, 07:96:01-07:96:02, 07:263, 08:41, 08:115, 12:83, 12:106, 12:122, 14:20, 15:02:01:01-15:09, 15:12-15:13, 15:15, 15:18-15:19, 15:21-15:24, 15:26, 15:28-15:42, 15:44-15:62, 15:64-15:106, 15:108-15:112, 15:114-15:121, 16:70, 17:07, 18:08, <b>B*58:02:01</b>  |
| <b>30<sup>15</sup></b>    | 160 bp,<br>370 bp,<br>540 bp | 1070 bp       | *01:21, 02:12, 02:49, 02:55:01-02:55:02, 04:01:55, 04:14-04:15:01, 04:15:03, 04:68, 05:112, 06:02:37, 06:127:02, 07:01:07, 07:04:03, 07:14, 07:27:02, 07:31:02, 07:53, 07:199:02, 07:216, 12:02:01-   |

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|------------------|--------|---------|--|
|                  |        |         | 12:02:02, 12:02:04-12:02:07, 12:02:09-12:02:11, 12:02:13, 12:03:29, 12:03:32, 12:08, 12:14:01-12:14:02, 12:16-12:18:02, 12:22, 12:27, 12:30, 12:36, 12:40-12:41, 12:56, 12:64, 12:67-12:69, 12:72-12:74, 12:80N, 12:83-12:86, 12:103-12:106, 12:112, 12:114, 12:117, 12:123-12:124, 12:126-12:128, 12:130, 12:132, 12:134, 12:136-12:137, 12:142, 12:145-12:146, 12:148N, 12:151, 12:161, 12:164, 12:166, 12:168-12:169, 15:75, 16:01:01:01-16:02:13, 16:06-16:28, 16:30N-16:32, 16:34, 16:36-16:39:02, 16:41, 16:43-16:47, 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, 17:01:10, <b>A*24:96, A*24:106, A*24:174</b>  |
| 31               | 520 bp | 1070 bp | *01:14, 02:02:01-02:02:03, 02:02:05-02:02:30, 02:04-02:15, 02:17, 02:19-02:26:03, 02:28-02:40:02, 02:42-02:64, 02:66-02:71, 02:73-02:86, 02:88-02:112, 04:01:01:01-04:01:70, 04:03:01-04:03:02, 04:05, 04:07-04:10, 04:12, 04:15:01-04:20, 04:23-04:28, 04:30-04:33, 04:35, 04:37-04:54, 04:56-04:57, 04:59Q-04:67, 04:69-04:110, 04:112-04:113, 04:115N-04:121, 04:123N-04:159, 04:161-04:171, 04:173N-04:177, 04:179-04:187, 04:189-04:211, 04:213-04:230, 05:01:01:01-05:01:31, 05:03-05:10, 05:12-05:16, 05:18:01-05:19, 05:21-05:26, 05:28-05:31, 05:33-05:50, 05:52-05:61, 05:63-05:67, 05:69, 05:71-05:78, 05:80-05:111, 05:113N-05:114, 05:116-05:127, 06:02:01:01-06:02:01:03, 06:02:03-06:03:02, 06:05-06:10, 06:12-06:39, 06:41-06:51, 06:53:01-06:78, 06:80-06:81, 06:83-06:117, 06:119-06:146, 06:148-06:152N, 06:154-06:159, 06:161-06:173, 12:04:01-12:05, 12:09, 12:21, 12:33, 12:41, 12:60, 12:72, 12:135, 12:146, 12:154, 14:12, 14:49, 15:08, 15:74, 15:102, 16:88, 16:91, 17:17, 18:01-18:10 |
| 32 <sup>19</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 low resolution 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 inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The 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.

<sup>3</sup>For several HLA Class I alleles 1<sup>st</sup> and/or 4<sup>th</sup> 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.

<sup>4</sup>Only HLA-C alleles will be amplified by the HLA-C low resolution screening typing kit, except that that a few HLA-A and HLA-B alleles will be amplified by primer mixes 1, 3, 8, 13, 15, 16, 20, 22, 23, 26, 27, 29 and 30.

<sup>5</sup>Primer mix 2 will for most C\*02 alleles give rise to two specific PCR fragments.

<sup>6</sup>Primer mix 4 will for most C\*03 alleles give rise to two specific PCR fragments.

<sup>7</sup>Primer mix 7 will for most C\*05 alleles give rise to two specific PCR fragments.

101.601-24/12 – including *Taq* pol., IFU-01  
101.601-24u/12u – without *Taq* pol., IFU-02

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- <sup>8</sup>Primer mix 9 will for most C\*07 alleles give rise to two specific PCR fragments.
- <sup>9</sup>Primer mix 10 will for most C\*08 alleles give rise to multiple specific PCR fragments.
- <sup>10</sup>Primer mix 12 will for most C\*12 alleles give rise to two specific PCR fragments.
- <sup>11</sup>Primer mix 17 will for most C\*15 alleles give rise to two specific PCR fragments.
- <sup>12</sup>Primer mix 25 will for most C\*04 alleles give rise to two specific PCR fragments.
- <sup>13</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.
- <sup>14</sup>Primer mixes 11, 13 and 29 may have tendencies of unspecific amplifications.
- <sup>15</sup>Primer mixes 2, 3, 15, 16, 18, 20, 22, 25, 28 and 30 have a tendency to giving rise to primer oligomer formation.
- <sup>16</sup>Primer mixes 3, 6, 10, 11 and 18 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C low primer mixes.
- <sup>17</sup>Primer mix 14 might faintly amplify most C\*01 and the C\*14 alleles.
- <sup>18</sup>Primer mixes 19 and 22 might generate a false band of about 500 base pairs. This band should be disregarded when interpreting HLA-C low resolution typings.
- <sup>19</sup>Primer mix 32 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.

101.601-24/12 – including *Taq* pol., IFU-01  
 101.601-24u/12u – without *Taq* pol., IFU-02

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Lot-specific information

**PRIMER SPECIFICATION**

|  |                 |                 |           |                 |                 |                 |                 |                 |                 |                 |                 |           |
|--|-----------------|-----------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|
| Well No.                                 | 1               | 2               | 3         | 4               | 5               | 6               | 7               | 8               | 9               | 10              | 11              | 12        |
| Length of spec. PCR product              | 90              | 130             | 280       | 170             | 280             | 135             | 165             | 125             | 245             | 110             | 340             | 100       |
|  | 150             | 200             |           | 275             |                 | 330             | 390             | 355             | 425             | 165             |                 | 155       |
|  |                 | 270             |           |                 |                 |                 | 445             |                 |                 | 390             |                 | 220       |
|  |                 | 300             |           |                 |                 |                 |                 |                 |                 |                 |                 |           |
| Length of int. pos. control <sup>1</sup> | 800             | 800             | 800       | 1070            | 800             | 800             | 1070            | 800             | 800             | 800             | 1070            | 800       |
| 5'-primer(s) <sup>2</sup>                | 89              | 47              | 105       | 355             | 105             | 47              | 1 <sup>st</sup> | 28              | 47              | 1 <sup>st</sup> | 1 <sup>st</sup> | 361       |
|  | 5'-gAA 3'       | 5'-Agg 3'       | 5'-gCT 3' | 5'-TCA 3'       | 5'-gCT 3'       | 5'-Agg 3'       | 5'-CgA 3'       | 5'-TCA 3'       | 5'-Agg 3'       | 5'-CgA 3'       | 5'-CgA 3'       | 5'-AgT 3' |
|  | 89              | 89              |           | 459             |                 | 112             | 176             | 2 <sup>nd</sup> | 648             | 176             |                 | 419       |
|  | 5'-gAA 3'       | 5'-gAA 3'       |           | 5'-gAT 3'       |                 | 5'-CCT 3'       | 5'-gCA 3'       | 5'-CCA 3'       | 5'-CAC 3'       | 5'-gCA 3'       |                 | 5'-gTC 3' |
|  | 98              | 2 <sup>nd</sup> |           |                 |                 | 118             | 527             |                 |                 | 527             |                 |           |
|  | 5'-CTT 3'       | 5'-CCA 3'       |           |                 |                 | 5'-CCA 3'       | 5'-TgA 3'       |                 |                 | 5'-TAC 3'       |                 |           |
|  |                 | 703             |           |                 |                 |                 |                 |                 |                 |                 |                 |           |
|  |                 | 5'-CTA 3'       |           |                 |                 |                 |                 |                 |                 |                 |                 |           |
| 3'-primer(s) <sup>3</sup>                | 142             | 176             | 343       | 589             | 343             | 201             | 302             | 213             | 302             | 302             | 218             | 474       |
|  | 5'-TgA 3'       | 5'-ACT 3'       | 5'-C 3'   | 5'-CTT 3'       | 5'-T 3'         | 5'-CTT 3'       | 5'-ggT 3'       | 5'-Cgg 3'       | 5'-ggC 3'       | 5'-ggC 3'       | 5'-gCT 3'       | 5'-gCA 3' |
|  | 201             | 559             | 343       |                 |                 | 218             | 3 <sup>rd</sup> | 409             | 853             | 595             | 302             | 477       |
|  | 5'-CTT 3'       | 5'-CTC 3'       | 5'-g 3'   |                 |                 | 5'-gCT 3'       | 5'-gCA 3'       | 5'-ATg 3'       | 5'-CAT 3'       | 5'-CCC 3'       | 5'-ggT 3'       | 5'-gCA 3' |
|  | 201             | 861             |           |                 |                 |                 |                 | 420             |                 |                 | 304             | 538       |
|  | 5'-CTC 3'       | 5'-TCg 3'       |           |                 |                 |                 |                 | 5'-gCT 3'       |                 |                 | 5'-CAA 3'       | 5'-gCA 3' |
| Well No.                                 | 1               | 2               | 3         | 4               | 5               | 6               | 7               | 8               | 9               | 10              | 11              | 12        |
| Well No.                                 | 13              | 14              | 15        | 16              | 17              | 18              | 19              | 20              | 21              | 22              | 23              | 24        |
| Length of spec. PCR product              | 120             | 95              | 130       | 160             | 110             | 180             | 225             | 215             | 325             | 135             | 155             | 95        |
|  | 250             | 160             | 255       | 260             | 325             | 210             | 250             | 420             | 380             |                 | 235             | 475       |
|  |                 | 215             |           | 445             |                 | 240             |                 |                 |                 |                 |                 | 590       |
| Length of int. pos. control <sup>1</sup> | 800             | 800             | 800       | 1070            | 800             | 1070            | 800             | 800             | 1070            | 800             | 1070            | 800       |
| 5'-primer(s) <sup>2</sup>                | 201             | 97              | 98        | 98              | 201             | 201             | 2 <sup>nd</sup> | 47              | 355             | 105             | 97              | 176       |
|  | 5'-CCA 3'       | 5'-TCg 3'       | 5'-CTA 3' | 5'-CTC 3'       | 5'-CCA 3'       | 5'-CCA 3'       | 5'-CCA 3'       | 5'-Agg 3'       | 5'-TCA 3'       | 5'-gCT 3'       | 5'-TCg 3'       | 5'-gCA 3' |
|  | 218             | 361             | 368       | 98              | 409             | 2 <sup>nd</sup> |                 | 117             | 412             | 459             | 97              | 486       |
|  | 5'-ggA 3'       | 5'-AgT 3'       | 5'-gTg 3' | 5'-CTT 3'       | 5'-ggC 3'       | 5'-CCA 3'       |                 | 5'-CCT 3'       | 5'-ATA 3'       | 5'-gAT 3'       | 5'-TTg 3'       | 5'-ACA 3' |
|  | 2 <sup>nd</sup> | 477             |           | 194             |                 | 361             |                 | 361             |                 |                 |                 |           |
|  | 5'-CCA 3'       | 5'-gCT 3'       |           | 5'-CgT 3'       |                 | 5'-AgT 3'       |                 | 5'-AgT 3'       |                 |                 |                 |           |
|  |                 |                 |           | 527             |                 |                 |                 |                 |                 |                 |                 |           |
|  |                 |                 |           | 5'-TgA 3'       |                 |                 |                 |                 |                 |                 |                 |           |
| 3'-primer(s) <sup>3</sup>                | 289             | 218             | 312       | 311             | 270             | 341             | 512             | 289             | 3 <sup>rd</sup> | 201             | 213             | 361       |
|  | 5'-AgC 3'       | 5'-gCT 3'       | 5'-AgT 3' | 5'-ggT 3'       | 5'-TAg 3'       | 5'-CgT 3'       | 5'-CCA 3'       | 5'-AgT 3'       | 5'-CTC 3'       | 5'-CTC 3'       | 5'-Cgg 3'       | 5'-CCA 3' |
|  | 289             | 527             | 459       | 317             | 3 <sup>rd</sup> | 343             | 538             | 302             |                 | 559             | 289             | 474       |
|  | 5'-AgC 3'       | 5'-CCg 3'       | 5'-AgA 3' | 5'-CgT 3'       | 5'-CTC 3'       | 5'-T 3'         | 5'-gTC 3'       | 5'-ggT 3'       |                 | 5'-CTC 3'       | 5'-AgC 3'       | 5'-gCA 3' |
|  | 291             | 538             |           | 3 <sup>rd</sup> |                 | 343             |                 | 527             |                 |                 | 289             | 538       |
|  | 5'-TCg 3'       | 5'-gCA 3'       |           | 5'-gCA 3'       |                 | 5'-g 3'         |                 | 5'-CCg 3'       |                 |                 | 5'-AgC 3'       | 5'-CCA 3' |
|  | 539             | 538             |           |                 |                 | 527             |                 | 538             |                 |                 |                 |           |
|  | 5'-TCT 3'       | 5'-CCA 3'       |           |                 |                 | 5'-CCg 3'       |                 | 5'-CCg 3'       |                 |                 |                 |           |
|  |                 |                 |           |                 |                 | 527             |                 |                 |                 |                 |                 |           |
|  |                 |                 |           |                 |                 | 5'-CCg 3'       |                 |                 |                 |                 |                 |           |
|  |                 |                 |           |                 |                 | 527             |                 |                 |                 |                 |                 |           |
|  |                 |                 |           |                 |                 | 5'-CCg 3'       |                 |                 |                 |                 |                 |           |
|  |                 |                 |           |                 |                 | 527             |                 |                 |                 |                 |                 |           |
|  |                 |                 |           |                 |                 | 5'-CCg 3'       |                 |                 |                 |                 |                 |           |
|  |                 |                 |           |                 |                 | 530             |                 |                 |                 |                 |                 |           |
|  |                 |                 |           |                 |                 | 5'-CCA 3'       |                 |                 |                 |                 |                 |           |
| Well No.                                 | 13              | 14              | 15        | 16              | 17              | 18              | 19              | 20              | 21              | 22              | 23              | 24        |

101.601-24/12 – including *Taq* pol., IFU-01  
 101.601-24u/12u – without *Taq* pol., IFU-02

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Lot No.: **8D8**

Lot-specific information

| Well No.                  | 25        | 26        | 27        | 28        | 29                | 30        | 31        |
|---------------------------|-----------|-----------|-----------|-----------|-------------------|-----------|-----------|
| Length of spec.           | 260       | 155       | 140       | 215       | 175               | 160       | 520       |
| PCR product               | 320       | 225       |           | 555       | 270               | 370       |           |
|                           | 360       |           |           |           |                   | 540       |           |
| Length of int.            | 1070      | 1070      | 1070      | 1070      | 800               | 1070      | 1070      |
| pos. control <sup>1</sup> |           |           |           |           |                   |           |           |
| 5'-primer(s) <sup>2</sup> | 28        | 98        | 201       | 98        | 134               | 289       | 312       |
|                           | 5'-TCA 3' | 5'-CTA 3' | 5'-CCA 3' | 5'-CTA 3' | 5'-CCA 3'         | 5'-Agg 3' | 5'-AAA 3' |
|                           | 341       | 176       |           | 368       | 2 <sup>nd</sup> I | 418       |           |
|                           | 5'-ggA 3' | 5'-gCA 3' |           | 5'-gTT 3' | 5'-CCA 3'         | 5'-Agg 3' |           |
|                           |           | 361       |           | 1018      |                   | 419       |           |
|                           |           | 5'-AgT 3' |           | 5'-gTg 3' |                   | 5'-gTC 3' |           |
|                           |           |           |           |           |                   | 419       |           |
|                           |           |           |           |           |                   | 5'-gTT 3' |           |
| 3'-primer(s) <sup>3</sup> | 112       | 289       | 302       | 361       | 270               | 369       | 539       |
|                           | 5'-CCA 3' | 5'-AgC 3' | 5'-ggC 3' | 5'-CCA 3' | 5'-TAg 3'         | 5'-CCg 3' | 5'-TCC 3' |
|                           | 118       | 289       |           | 538       | 559               | 539       |           |
|                           | 5'-gCT 3' | 5'-AgC 3' |           | 5'-CCg 3' | 5'-CAg 3'         | 5'-TCT 3' |           |
|                           | 218       | 538       |           | 1092      |                   |           |           |
|                           | 5'-gCT 3' | 5'-CCg 3' |           | 5'-TTA 3' |                   |           |           |
|                           | 369       |           |           |           |                   |           |           |
|                           | 5'-CCg 3' |           |           |           |                   |           |           |
| Well No.                  | 25        | 26        | 27        | 28        | 29                | 30        | 31        |

<sup>1</sup>The 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.

<sup>2</sup>The nucleotide position matching the specificity-determining 3'-end of the 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>3</sup>The 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](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

101.601-24/12 – including *Taq* pol., IFU-01  
 101.601-24u/12u – without *Taq* pol., IFU-02

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Lot No.: **8D8**

Lot-specific information

| <b>CELL LINE VALIDATION SHEET</b>                      |                             |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|--|-----------------------------|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>HLA-C low resolution SSP primer set<sup>2</sup></b> |                             |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|  |                             |        |        | Well       |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|  |                             |        |        | 1          | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        | 13        | 14        | 15        | 16        |           |
|  |                             |        |        | Prod. No.: | 201553101 | 201553102 | 201553103 | 201553104 | 201553105 | 201553106 | 201553107 | 201561308 | 201553109 | 201553110 | 201667211 | 201553112 | 201553113 | 201667214 | 201667215 | 201553116 |
|  | IHWC cell line <sup>1</sup> | 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 | -          | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         |





101.601-24/12 – including *Taq* pol., IFU-01  
101.601-24u/12u – without *Taq* pol., IFU-02

Visit [www.olerup-ssp.com](http://www.olerup-ssp.com) for  
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Lot No.: **8D8**

#### Lot-specific information

<sup>1</sup>The 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.

<sup>2</sup>The 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.

Additional 5'-primers and 3'-primers in primer solutions 1, 2, 7, 14 to 16, 20, 22, 24 to 26 and 28 to 29 were tested by separately adding one or two additional 3'-primers, respectively one or two additional 5'-primers. Additional 3'-primers in primer solution 8, 11, 18 and 19 were tested by separately adding one additional 5'-primer. Additional 5'-primers in primer solutions 6, 13 and 30 were tested by separately adding one or two additional 3'-primers.

In primer solutions 1, 16 and 23 one 5'-primer were not possible to test, and in primer solutions 3, 11 to 14, 16 and 18 one or two 3'-primers were not possible to test.



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101.601-24u/12u – without *Taq* pol., IFU-02

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Lot-specific information

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