

**Lot No.: 6G9**

**Lot-specific information**

## ***Olerup* SSP<sup>®</sup> HLA-C\*15**

|                                         |                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Product number:</b>                  | <b>101.626-12 – including <i>Taq</i> polymerase</b><br><b>101.626-12u – without <i>Taq</i> polymerase</b> |
| <b>Lot number:</b>                      | <b>6G9</b>                                                                                                |
| <b>Expiry date:</b>                     | <b>2021-03-01</b>                                                                                         |
| <b>Number of tests:</b>                 | <b>12</b>                                                                                                 |
| <b>Number of wells per test:</b>        | <b>41+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. 6G9.**

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

### **CHANGES COMPARED TO THE PREVIOUS *OLERUP* SSP<sup>®</sup> HLA-C\*15 LOT (1F1)**

The HLA-C\*15 kit is updated for new alleles to enable separation of:

- Null and Alternatively expressed alleles
- The product documentation has been updated for new alleles of IMGT 3.32.0

The format of the Worksheet has been changed.

Two wells have been added to HLA-C\*15, wells **41 to 42**.

The HLA-C\*15 primer set, specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup* SSP<sup>®</sup> HLA-C\*15 lot was made (**Lot No. 1F1**).

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

| <b>Well</b> | <b>5'-primer</b> | <b>3'-primer</b> | <b>rationale</b>                                                                        |
|-------------|------------------|------------------|-----------------------------------------------------------------------------------------|
| 40          | Added            | Added            | Negative control moved to well 42, new primer pair added for the C*15:02:01:08N allele. |
| 41          | New              | New              | New primer pair added for the C*15:145N allele.                                         |
| 42          | -                | -                | Negative Control added from well 40.                                                    |

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Well **42** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP<sup>®</sup> 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>C*</b>                    | +                    | +                       | +                    |                      |                      |                      |                      |
| <b>DRB1</b>                  |                      |                         |                      | +                    | +                    |                      |                      |
| <b>DRB3</b>                  |                      |                         |                      | +                    | +                    |                      |                      |
| <b>DRB5</b>                  |                      |                         |                      | +                    |                      |                      |                      |
| <b>DQB1</b>                  |                      |                         |                      |                      | +                    |                      |                      |
| <b>DPB1</b>                  |                      |                         |                      |                      |                      | +                    |                      |
| <b>DQA1</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\*15 SSP typing

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the C\*15:02 to C\*15:155 alleles.

#### PLATE LAYOUT

Each HLA-C\*15 test consists of 42 PCR reactions in a 48 well cut PCR plate. Wells 43 to 48 are empty.

|           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <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> | <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> |
| <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> | <b>37</b> | <b>38</b> | <b>39</b> | <b>40</b> |
| <b>41</b> | <b>NC</b> | empty     | empty     | empty     | empty     | empty     | empty     |

The 48 well PCR plate is marked with 'HLA-C\*15' in silver/gray ink.

Well No. 1 is marked with the Lot No. '6G9'.

Wells 1 to 41 – HLA-C\*15 high resolution primers.

Well 42 – Negative Control (NC).

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

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

**Please note:** When removing each 48 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

Due to the sharing of sequence motifs between HLA-C alleles non-HLA-C\*15 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-C\*15 alleles, i.e. **C\*15:02 to C\*15:155**, recognized by the HLA Nomenclature Committee in April 2018<sup>1,2</sup> will be amplified by the primers in the HLA-C\*15 SSP kit<sup>3</sup>.

The HLA-C\*15 kit enables separation of the confirmed HLA-C\*15 alleles as listed in the IMGT/HLA database 3.26.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-C\*15 alleles is listed below.

The HLA-C\*15 kit also enables identification of null and alternatively expressed alleles.

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The following HLA-C\*15 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

| Alleles                 | Primer mix | Alleles          | Primer mix |
|-------------------------|------------|------------------|------------|
| C*15:18, 15:118, 15:138 | 9          | C*15:35, 15:47   | 21         |
| C*15:32Q, 15:41         | 24         | C*15:44:01-15:45 | 20         |
| C*15:33, 15:84Q         | 28         | C*15:46, 15:111  | 19         |
| C*15:34, 15:39, 15:130  | 17         | C*15:81, 15:96Q  | 29         |

<sup>1</sup>HLA-C alleles listed on the IMGT/HLA web page 2018-April-16, release 3.32.0, [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 HLA-C\*15 primer set cannot separate the C\*15:04:01-15:04:03 and the C\*16:70 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or HLA-C\*16 high resolution kit.

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## ALLELE CONFIRMATION STATUS

| Allele               | Status <sup>1</sup> | Allele            | Status <sup>1</sup> | Allele          | Status <sup>1</sup> | Allele          | Status <sup>1</sup> |
|----------------------|---------------------|-------------------|---------------------|-----------------|---------------------|-----------------|---------------------|
| <b>C*15:02:01:01</b> | <b>Confirmed</b>    | <b>C*15:09</b>    | <b>Confirmed</b>    | <b>C*15:58</b>  | <b>Confirmed</b>    | C*15:107        | Unconfirmed         |
| C*15:02:01:02        | Unconfirmed         | C*15:10:01        | Unconfirmed         | C*15:59         | Unconfirmed         | <b>C*15:108</b> | <b>Confirmed</b>    |
| C*15:02:01:03        | Unconfirmed         | <b>C*15:10:02</b> | <b>Confirmed</b>    | C*15:60         | Unconfirmed         | C*15:109        | Unconfirmed         |
| C*15:02:02           | Unconfirmed         | C*15:10:03        | Unconfirmed         | C*15:61         | Unconfirmed         | C*15:110        | Unconfirmed         |
| <b>C*15:02:03</b>    | <b>Confirmed</b>    | <b>C*15:11</b>    | <b>Confirmed</b>    | C*15:62         | Unconfirmed         | C*15:111        | Unconfirmed         |
| <b>C*15:02:04</b>    | <b>Confirmed</b>    | C*15:12           | Unconfirmed         | C*15:63         | Unconfirmed         | C*15:112        | Unconfirmed         |
| <b>C*15:02:05</b>    | <b>Confirmed</b>    | <b>C*15:13</b>    | <b>Confirmed</b>    | C*15:64         | Unconfirmed         | C*15:113        | Unconfirmed         |
| C*15:02:06           | Unconfirmed         | C*15:15           | Unconfirmed         | C*15:65         | Unconfirmed         | <b>C*15:114</b> | <b>Confirmed</b>    |
| <b>C*15:02:07</b>    | <b>Confirmed</b>    | C*15:16           | Unconfirmed         | C*15:66         | Unconfirmed         | C*15:115N       | Unconfirmed         |
| <b>C*15:02:08</b>    | <b>Confirmed</b>    | <b>C*15:17</b>    | <b>Confirmed</b>    | C*15:67         | Unconfirmed         | C*15:116        | Unconfirmed         |
| C*15:02:09           | Unconfirmed         | <b>C*15:18</b>    | <b>Confirmed</b>    | C*15:68         | Unconfirmed         | C*15:117        | Unconfirmed         |
| C*15:02:10           | Unconfirmed         | <b>C*15:19</b>    | <b>Confirmed</b>    | <b>C*15:69</b>  | <b>Confirmed</b>    | <b>C*15:118</b> | <b>Confirmed</b>    |
| <b>C*15:02:11</b>    | <b>Confirmed</b>    | C*15:21           | Unconfirmed         | C*15:70         | Unconfirmed         | C*15:119        | Unconfirmed         |
| C*15:02:12           | Unconfirmed         | <b>C*15:22</b>    | <b>Confirmed</b>    | C*15:71         | Unconfirmed         | C*15:120        | Unconfirmed         |
| C*15:02:13           | Unconfirmed         | <b>C*15:23</b>    | <b>Confirmed</b>    | C*15:72         | Unconfirmed         | C*15:121        | Unconfirmed         |
| <b>C*15:02:14</b>    | <b>Confirmed</b>    | <b>C*15:24</b>    | <b>Confirmed</b>    | C*15:73         | Unconfirmed         | C*15:122N       | Unconfirmed         |
| <b>C*15:02:15</b>    | <b>Confirmed</b>    | C*15:25           | Unconfirmed         | <b>C*15:74</b>  | <b>Confirmed</b>    | <b>C*15:123</b> | <b>Confirmed</b>    |
| C*15:02:16           | Unconfirmed         | <b>C*15:26</b>    | <b>Confirmed</b>    | C*15:75         | Unconfirmed         | C*15:124        | Unconfirmed         |
| C*15:02:17           | Unconfirmed         | <b>C*15:27</b>    | <b>Confirmed</b>    | C*15:76         | Unconfirmed         | C*15:125        | Unconfirmed         |
| C*15:02:18           | Unconfirmed         | <b>C*15:28</b>    | <b>Confirmed</b>    | C*15:77         | Unconfirmed         | C*15:126        | Unconfirmed         |
| C*15:02:19           | Unconfirmed         | C*15:29           | Unconfirmed         | C*15:78:01      | Unconfirmed         | C*15:127        | Unconfirmed         |
| <b>C*15:02:20</b>    | <b>Confirmed</b>    | <b>C*15:30</b>    | <b>Confirmed</b>    | C*15:78:02      | Unconfirmed         | C*15:128        | Unconfirmed         |
| C*15:02:21           | Unconfirmed         | <b>C*15:31</b>    | <b>Confirmed</b>    | C*15:79         | Unconfirmed         | C*15:129        | Unconfirmed         |
| C*15:02:22           | Unconfirmed         | <b>C*15:32Q</b>   | <b>Confirmed</b>    | C*15:80         | Unconfirmed         | C*15:130        | Unconfirmed         |
| <b>C*15:02:23</b>    | <b>Confirmed</b>    | <b>C*15:33</b>    | <b>Confirmed</b>    | C*15:81         | Unconfirmed         | C*15:131        | Unconfirmed         |
| C*15:02:24           | Unconfirmed         | <b>C*15:34</b>    | <b>Confirmed</b>    | <b>C*15:82</b>  | <b>Confirmed</b>    | <b>C*15:132</b> | <b>Confirmed</b>    |
| C*15:02:25           | Unconfirmed         | C*15:35           | Unconfirmed         | C*15:83         | Unconfirmed         | C*15:133        | Unconfirmed         |
| C*15:02:26           | Unconfirmed         | <b>C*15:36</b>    | <b>Confirmed</b>    | C*15:84Q        | Unconfirmed         |                 |                     |
| <b>C*15:02:27</b>    | <b>Confirmed</b>    | C*15:37           | Unconfirmed         | <b>C*15:85</b>  | <b>Confirmed</b>    |                 |                     |
| C*15:02:28           | Unconfirmed         | C*15:38           | Unconfirmed         | C*15:86         | Unconfirmed         |                 |                     |
| C*15:03              | Unconfirmed         | <b>C*15:39</b>    | <b>Confirmed</b>    | C*15:87         | Unconfirmed         |                 |                     |
| <b>C*15:04:01</b>    | <b>Confirmed</b>    | <b>C*15:40</b>    | <b>Confirmed</b>    | C*15:88         | Unconfirmed         |                 |                     |
| <b>C*15:04:02</b>    | <b>Confirmed</b>    | C*15:41           | Unconfirmed         | C*15:89         | Unconfirmed         |                 |                     |
| <b>C*15:05:01</b>    | <b>Confirmed</b>    | <b>C*15:42</b>    | <b>Confirmed</b>    | C*15:90         | Unconfirmed         |                 |                     |
| <b>C*15:05:02</b>    | <b>Confirmed</b>    | C*15:43           | Unconfirmed         | C*15:91         | Unconfirmed         |                 |                     |
| C*15:05:03           | Unconfirmed         | <b>C*15:44:01</b> | <b>Confirmed</b>    | C*15:92N        | Unconfirmed         |                 |                     |
| C*15:05:04           | Unconfirmed         | C*15:44:02        | Unconfirmed         | C*15:93         | Unconfirmed         |                 |                     |
| C*15:05:05           | Unconfirmed         | C*15:45           | Unconfirmed         | C*15:94         | Unconfirmed         |                 |                     |
| <b>C*15:05:06</b>    | <b>Confirmed</b>    | C*15:46           | Unconfirmed         | C*15:95N        | Unconfirmed         |                 |                     |
| <b>C*15:05:07</b>    | <b>Confirmed</b>    | C*15:47           | Unconfirmed         | <b>C*15:96Q</b> | <b>Confirmed</b>    |                 |                     |
| C*15:05:08           | Unconfirmed         | C*15:48           | Unconfirmed         | C*15:97         | Unconfirmed         |                 |                     |
| C*15:05:09           | Unconfirmed         | C*15:49           | Unconfirmed         | C*15:98         | Unconfirmed         |                 |                     |
| C*15:05:10           | Unconfirmed         | C*15:50           | Unconfirmed         | C*15:99         | Unconfirmed         |                 |                     |
| C*15:05:11           | Unconfirmed         | C*15:51           | Unconfirmed         | C*15:100        | Unconfirmed         |                 |                     |
| C*15:05:12           | Unconfirmed         | <b>C*15:52</b>    | <b>Confirmed</b>    | <b>C*15:101</b> | <b>Confirmed</b>    |                 |                     |
| <b>C*15:06:01</b>    | <b>Confirmed</b>    | C*15:53           | Unconfirmed         | <b>C*15:102</b> | <b>Confirmed</b>    |                 |                     |
| <b>C*15:06:02</b>    | <b>Confirmed</b>    | C*15:54           | Unconfirmed         | <b>C*15:103</b> | <b>Confirmed</b>    |                 |                     |
| <b>C*15:06:03</b>    | <b>Confirmed</b>    | C*15:55           | Unconfirmed         | C*15:104        | Unconfirmed         |                 |                     |
| <b>C*15:07</b>       | <b>Confirmed</b>    | <b>C*15:56</b>    | <b>Confirmed</b>    | C*15:105Q       | Unconfirmed         |                 |                     |
| C*15:08              | Unconfirmed         | C*15:57           | Unconfirmed         | C*15:106        | Unconfirmed         |                 |                     |

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-October-14, release 3.26.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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**RESOLUTION IN HOMO- AND HETEROZYGOTES**

Results file with resolution in HLA-C\*15 homo- and heterozygotes is available upon request.

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**SPECIFICITY TABLE**

**HLA-C\*15 SSP subtyping**

Specificities and sizes of the PCR products of the 41+1 primer mixes used for  
HLA-C\*15 SSP subtyping

| Primer Mix           | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | Amplified HLA-C*15 alleles <sup>3</sup>                                                                                                                                                                                           | Other amplified HLA Class I alleles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|----------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>             | 330 bp                                 | <b>800 bp</b>                     | *15:02:01:01-15:03,<br>15:05:01-15:13:01:02,<br>15:15-15:19, 15:21-<br>15:24, 15:26-15:29,<br>15:31-15:39, 15:41-<br>15:63, 15:67-15:75,<br>15:78:01-15:101,<br>15:103-15:104, 15:106-<br>15:109, 15:111-15:128,<br>15:130-15:155 | *01:02:22, 01:90, 01:101-01:102,<br>01:113, 01:116, 02:06:01-02:06:02,<br>02:23, 02:36:01-02:36:02, 02:68,<br>03:04:33, 03:04:39, 03:81, 03:175,<br>03:199, 03:245, 03:317, 03:388, 04:108,<br>04:178, 05:132, 06:02:48, 06:89, 07:47,<br>07:123, 07:173, 07:294, 07:626, 08:113,<br>12:15, 12:113, 12:208, 14:92, 16:20,<br>16:109                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>2</b>             | 175 bp                                 | 1070 bp                           | *15:02:01:01-15:09,<br>15:12-15:13:01:02,<br>15:15, 15:18-15:19,<br>15:21-15:24, 15:26,<br>15:28-15:42, 15:44:01-<br>15:62, 15:64-15:106,<br>15:108-15:112, 15:114-<br>15:123, 15:125-15:155                                      | *03:08, 03:29, 03:31, 03:246, 07:20,<br>07:96:01-07:96:02, 07:263, 16:70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>3<sup>4</sup></b> | 85 bp<br>210 bp                        | 1070 bp                           | *15:28, 15:153<br>*15:03, 15:16, 15:25 <sup>w</sup>                                                                                                                                                                               | *03:15, 03:27 <sup>w</sup> , 03:38:01 <sup>w</sup> -03:38:02 <sup>w</sup> ,<br>03:69 <sup>w</sup> , 03:130, 03:136 <sup>w</sup> , 03:163,<br>03:246 <sup>w</sup> , 03:297, 04:16, 06:03:01,<br>06:70:02, 06:132:01-06:132:02,<br>07:02:10 <sup>w</sup> , 07:96:01 <sup>w</sup> -07:96:02 <sup>w</sup> ,<br>07:127 <sup>w</sup> , 07:246:01 <sup>w</sup> , 07:263 <sup>w</sup> ,<br>07:314:02 <sup>w</sup> , 07:578 <sup>w</sup> , 12:02:17 <sup>w</sup> ,<br>12:03:23 <sup>w</sup>                                                                                                                                                                                                                                                                       |
| <b>4</b>             | 315 bp                                 | 1070 bp                           | *15:04:01-15:04:03,<br>15:09, 15:19, 15:27,<br>15:30, 15:61, 15:65,<br>15:77, 15:107, 15:126,<br>15:143                                                                                                                           | *01:04, 01:21, 01:54, 01:97, 01:102,<br>01:152, 02:02:01-02:02:03, 02:02:05-<br>02:05:03, 02:08-02:18, 02:20-02:21,<br>02:24-02:40:02, 02:42-02:46, 02:48-<br>02:67Q, 02:69-02:96, 02:98-02:110,<br>02:112-02:139, 03:02:01-03:02:14,<br>03:02:16-03:02:17, 03:14-03:16, 03:33,<br>03:36, 03:40:01-03:40:04, 03:42-<br>03:43:02, 03:60, 03:71, 03:84, 03:89,<br>03:95, 03:108, 03:110, 03:119:01-<br>03:119:02, 03:121N, 03:132, 03:139,<br>03:146, 03:169Q, 03:175, 03:190,<br>03:194, 03:197-03:201N, 03:216,<br>03:221-03:222, 03:224N-03:226,<br>03:240, 03:245, 03:248, 03:258, 03:264,<br>03:271, 03:279, 03:298-03:301, 03:315,<br>03:329-03:330, 03:332, 03:338, 03:349-<br>03:350, 03:361, 03:365, 03:371, 03:373,<br>04:54, 05:04:01-05:04:02, |



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**Lot-specific information**

|                  |                                          |         |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                                          |         |                                                                                                                                                                                                                                   | 05:103:01-05:103:02, 05:135,<br>06:02:01-06:02:01:12, 06:02:03-<br>06:08, 06:10-06:33, 06:35-06:37, 06:39-<br>06:102:02, 06:104-06:106:02, 06:108-<br>06:143, 06:145-06:167, 06:169-06:178,<br>06:180-06:203, 06:205-06:218,<br>07:01:01-07:02:62, 07:02:64-07:03,<br>07:05-07:10, 07:14-07:27:02, 07:30-<br>07:33N, 07:35-07:40, 07:42-07:44,<br>07:46-07:62, 07:64-07:100, 07:102-<br>07:138, 07:140-07:141:02, 07:143-<br>07:176, 07:178-07:180, 07:182-07:183,<br>07:185-07:198N, 07:200-07:218,<br>07:220-07:230, 07:232-07:247, 07:249-<br>07:271, 07:273-07:288, 07:291-07:294,<br>07:296-07:322, 07:325-07:327,<br>07:330:01-07:335, 07:337, 07:339-<br>07:353, 07:356, 07:359-07:360, 07:362-<br>07:363, 07:366-07:377, 07:379-<br>07:393N, 07:396-07:402, 07:404-<br>07:405, 07:407-07:419, 07:421-07:425,<br>07:427, 07:429-07:446, 07:448-07:458,<br>07:460-07:465, 07:468-07:479, 07:481-<br>07:483N, 07:485-07:486, 07:488-<br>07:500, 07:502-07:521, 07:524-07:533,<br>07:537-07:551N, 07:553-07:561,<br>07:564-07:568, 07:570-07:584, 07:587-<br>07:599, 07:601-07:621, 07:623-07:625,<br>07:627, 08:09, 08:11, 08:59, 08:113,<br>08:152, 12:02:01-12:02:14, 12:02:16-<br>12:14:02, 12:16-12:30, 12:32-12:140,<br>12:142-12:143, 12:145-12:201, 12:203-<br>12:207, 12:209-12:221, 12:223-<br>12:232N, 14:02:01-14:25, 14:27-<br>14:53, 14:56-14:78, 14:80-14:91,<br>14:93N-14:96, 16:01:01-16:02:15,<br>16:04:01-16:04:01:02, 16:04:03-<br>16:04:05, 16:06-16:09, 16:11-16:44,<br>16:46-16:66, 16:68-16:122 |
| 5 <sup>4,5</sup> | 100 bp                                   | 1070 bp | *15:05:01-15:05:12,<br>15:22-15:23:02, 15:29,<br>15:36, 15:46, 15:54,<br>15:59, 15:69-15:70,<br>15:90, 15:104, 15:108,<br>15:110-15:111,<br>15:115N-15:117,<br>15:125, 15:140, 15:147-<br>15:148, 15:152:02-<br>15:153<br>*15:92N | *04:108, 07:626, <b>B*07:246, B*35:03:11,<br/>B*35:205</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6                | 160 bp<br>305 bp<br><br>345 bp<br>370 bp | 1070 bp | *15:06:01-15:06:03,<br>15:40, 15:55<br>*15:26, 15:69<br>*15:22, 15:37, 15:55,<br>15:58, 15:65, 15:72,<br>15:125                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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Lot-specific information

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|-----------|--------|---------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7</b>  | 140 bp | <b>800 bp</b> | *15:07, 15:21, 15:25,<br>15:116, 15:144                 | *01:02:34, 01:21, 02:12, 02:27:01-<br>02:27:02, 02:87, 02:115, 02:126,<br>02:131, 03:04:25, 04:11, 04:29, 04:36,<br>04:55, 04:172, 04:214, 07:02:09,<br>07:583, 08:01:01:01-08:02:10, 08:02:12-<br>08:09, 08:11-08:63, 08:65-08:94,<br>08:95 <sup>w</sup> , 08:96-08:166, 12:02:01-<br>12:02:10, 12:02:12-12:03:03, 12:03:05-<br>12:03:08, 12:03:10-12:03:23, 12:03:24 <sup>w</sup> ,<br>12:03:25-12:03:33, 12:03:35-12:03:47,<br>12:06-12:08, 12:10:01-12:20, 12:22-<br>12:26, 12:28-12:32, 12:34-12:40,<br>12:42Q-12:53, 12:55-12:59, 12:61-<br>12:122, 12:124-12:145, 12:147-12:187,<br>12:189-12:194, 12:195:02, 12:196-<br>12:233, 14:02:03, 14:03, 14:08, 14:10,<br>14:22, 14:35N, 14:38, 14:41, 14:53-<br>14:54, 14:61, 14:70, 14:79, 14:86,<br>14:90, 16:01:01:01-16:01:01:04,<br>16:01:03-16:01:15, 16:01:17-16:01:23,<br>16:04:01:01-16:04:01:02, 16:04:03-<br>16:04:05, 16:06-16:08, 16:10-16:11,<br>16:13-16:18, 16:20-16:24, 16:26-16:45,<br>16:49-16:56, 16:58-16:59, 16:61-16:62,<br>16:64-16:68, 16:71 <sup>w</sup> , 16:72-16:73,<br>16:75-16:76, 16:78-16:83, 16:86-16:87,<br>16:92-16:93, 16:95-16:98, 16:100,<br>16:105, 16:109-16:114, 16:116-16:119,<br>16:122, <b>B*08:01:36, B*15:436,</b><br><b>B*18:03:02, B*35:08:02, B*35:08:05,</b><br><b>B*67:02</b> |
| <b>8</b>  | 160 bp | 1070 bp       | *15:08, 15:74                                           | *01:90 <sup>w</sup> , 01:136, 02:06:01-02:06:02,<br>02:47, 05:132, 06:168, 12:15, 12:208,<br><b>B*07:78<sup>w</sup>, B*13:18<sup>w</sup>, B*13:31<sup>w</sup>,</b><br><b>B*13:41<sup>w</sup>, B*13:73<sup>w</sup>, B*15:73<sup>w</sup>,</b><br><b>B*15:303<sup>w</sup>, B*54:10<sup>w</sup>, B*54:20<sup>w</sup>,</b><br><b>B*54:33<sup>w</sup>, B*55:09<sup>w</sup>, B*55:21<sup>w</sup>,</b><br><b>B*55:37<sup>w</sup>, B*55:52<sup>w</sup>, B*56:43<sup>w</sup>,</b><br><b>B*56:51<sup>w</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|           | 185 bp |               | *15:19                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>9</b>  | 135 bp | 1070 bp       | *15:11, 15:23:01-<br>15:23:02, 15:63, 15:118,<br>15:138 | *02:02:01-02:02:03, 02:02:05-02:02:12,<br>02:02:14-02:02:25, 02:02:27-02:02:28,<br>02:02:30-02:20, 02:22-02:25Q,<br>02:27:01-02:38N, 02:40:01-02:40:02,<br>02:42-02:44, 02:46-02:86, 02:88-<br>02:100, 02:101 <sup>w</sup> , 02:102-02:133,<br>02:135N-02:139, 04:03:01-04:03:04,<br>04:06:01-04:06:02, 04:42:01-04:42:02,<br>04:80, 04:107, 04:147, 04:160, 04:171,<br>04:190, 04:220, 04:256, 04:286, 05:26,<br>05:43, 06:05, 07:02:09, 08:37, 12:16,<br>12:147, 12:195:02, 12:217, 16:21,<br>16:34, 16:80, 16:121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|           | 305 bp |               | *15:18                                                  | *04:210, 04:237                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>10</b> | 170 bp | 1070 bp       | *15:10:01-15:10:03,<br>15:107                           | *01:64, 02:08, 02:87, 02:134, 03:18:01-<br>03:18:02, 03:64:01-03:64:02, 03:231,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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Lot-specific information

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|-----------------------|----------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                            |                |                                                                                                                                                                                                                                                                                                                                                                        | 03:301, 04:01:01:01-04:01:02, 04:01:04-04:01:91, 04:04:01:01-04:05, 04:07-04:15:03, 04:17-04:20, 04:23-04:79, 04:81-04:106, 04:108-04:132, 04:134-04:139, 04:141-04:146, 04:148-04:159, 04:161-04:165, 04:167-04:170N, 04:172-04:189, 04:191N-04:219, 04:221-04:255N, 04:257-04:285, 04:287-04:293, 05:01:01:01-05:01:21, 05:01:23-05:01:38, 05:03-05:57, 05:59-05:97, 05:99N-05:126, 05:128N-05:164, 06:28, 06:76:01-06:76:02, 07:64, 07:73:01-07:73:02, 07:92, 07:172:01-07:172:02, 07:583, 08:01:01:01-08:13, 08:15:01-08:57, 08:59-08:63, 08:65-08:79, 08:81-08:102, 08:104, 08:106-08:133, 08:135-08:154, 08:156-08:166, 12:02:01-12:15, 12:17-12:70, 12:72-12:139, 12:141-12:146, 12:148N-12:226, 12:228-12:233, 14:02:01:01-14:02:09, 14:02:11-14:02:21, 14:04-14:09, 14:11-14:17, 14:19-14:21N, 14:23-14:34, 14:36-14:37, 14:39-14:40, 14:42-14:52, 14:55-14:60, 14:62-14:69, 14:71-14:78, 14:80-14:84, 14:87, 14:89, 14:91-14:96, 16:01:01:01-16:02:15, 16:04:01:01-16:04:01:02, 16:04:03-16:04:05, 16:06-16:33, 16:35-16:69, 16:71-16:79, 16:81-16:84, 16:86-16:120, 16:122, 17:01:01:02-17:01:07, 17:01:09-17:38, 17:40, 18:04 |
| <b>11</b>             | 315 bp                     | <b>800 bp</b>  | *15:02:01:01-15:03, 15:07-15:08, 15:10:01-15:13:01:02, 15:15-15:18, 15:21, 15:26, 15:28, 15:31-15:35, 15:37-15:39, 15:41-15:45, 15:47-15:53, 15:56-15:58, 15:60, 15:62-15:63, 15:67-15:68, 15:71-15:75, 15:78:01-15:89, 15:91-15:101, 15:103, 15:106, 15:109, 15:112-15:114, 15:118-15:124, 15:127, 15:129-15:139, 15:141, 15:144-15:146, 15:149-15:151, 15:154-15:155 | *01:136, 02:06:01-02:06:02, 02:47, 03:19, 03:102, 03:307, 04:178, 05:132, 06:168, 07:289, 12:15, 12:208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>12<sup>4</sup></b> | 100 bp<br>200 bp<br>240 bp | <b>1070 bp</b> | *15:28, 15:153<br>*15:95N<br>*15:07, 15:21 <sup>w</sup> , 15:25, 15:43, 15:116 <sup>w</sup> , 15:144                                                                                                                                                                                                                                                                   | *02:12 <sup>w</sup> , 02:27:01-02:27:02, 02:115, 02:126 <sup>w</sup> , 02:131, 03:02:01-03:02:09, 03:02:11-03:03:14, 03:03:15 <sup>w</sup> , 03:03:16-03:03:20, 03:03:22-03:04:16, 03:04:18-03:04:25, 03:04:27-03:06:02, 03:08-03:09, 03:10 <sup>w</sup> , 03:11:01-03:11:02, 03:13:01-03:14, 03:16-03:17:02,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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Lot-specific information

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|                       |                                      |               |                                                                                                                                                                                         | 03:18:02-03:28, 03:29 <sup>w</sup> , 03:30-03:38:02, 03:40:01-03:44, 03:46-03:64:01, 03:65-03:66, 03:68-03:98, 03:99:02-03:114, 03:116:01-03:129, 03:131-03:133, 03:135-03:136, 03:138-03:139, 03:141-03:143, 03:145-03:155, 03:157-03:162, 03:164-03:165:02, 03:167-03:169Q, 03:171-03:181, 03:183-03:194, 03:196-03:230, 03:232-03:242, 03:244Q-03:263:02, 03:265N-03:267, 03:269-03:277N, 03:278 <sup>w</sup> , 03:279-03:294, 03:295 <sup>w</sup> , 03:296:01-03:296:02, 03:298-03:343, 03:345-03:376, 03:378-03:388, 07:96:01-07:96:02, 07:314:02, 07:578, 12:02:17, 12:03:23, 16:34, <b>B*40:164, B*56:01:09, B*82:01:01:02, B*82:02:01:02</b> |
| <b>13<sup>4</sup></b> | 125 bp<br>185 bp                     | 1070 bp       | *15:24<br>*15:12, 15:144                                                                                                                                                                | *01:116, 04:89, 04:135, 05:47, 14:92<br>*04:52, 04:55, 05:55, 12:58, 14:10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>14</b>             | 130 bp<br><br>440 bp                 | <b>800 bp</b> | *15:13:01:01-15:13:01:02, 15:103<br>*15:11, 15:16-15:17, 15:43                                                                                                                          | *01:90, 01:136, 01:145N, 02:06:01-02:06:02, 02:47, 03:19, 03:102, 03:307, 03:318N, 04:178, 05:132, 06:168, 07:289, 12:15, 12:208, <b>B*46:11, B*46:18, B*56:08, B*56:14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>15<sup>4</sup></b> | 85 bp                                | 1070 bp       | *15:02:01:01-15:06:03, 15:08-15:10:03, 15:12-15:13:01:02, 15:15, 15:18-15:19, 15:21-15:24, 15:26, 15:28-15:42, 15:44:01-15:47, 15:49-15:84Q, 15:86-15:94, 15:96Q-15:143, 15:145N-15:155 | *03:29, 04:112, 04:169, 05:36, 06:44, 07:07, 07:09, 07:559, 16:70, 18:05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>16<sup>4</sup></b> | 90 bp<br>165 bp<br>345 bp            | 1070 bp       | *15:27<br>*15:15, 15:77<br>*15:26, 15:69                                                                                                                                                | <b>B*35:222, B*42:22</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>17<sup>6</sup></b> | 140 bp<br>215 bp<br>295 bp           | 1070 bp       | *15:34<br>*15:36<br>*15:39, 15:130                                                                                                                                                      | *14:81<br>*04:112, 04:169, 14:73<br>*01:30, 06:207, 08:51, 08:114, 12:87, 14:76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>18<sup>6</sup></b> | 215 bp                               | 1070 bp       | *15:31                                                                                                                                                                                  | *03:14, 03:162, 03:230, 03:234, 03:261, 03:309, 03:325, 03:361, 07:10, 07:43:01-07:43:02, 07:184, 07:196, 07:367, 07:568, 08:44, 08:61, 08:82, <b>B*15:88, B*44:247, B*58:05</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>19</b>             | 165 bp<br>355 bp                     | 1070 bp       | *15:42, 15:111<br>*15:46                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>20<sup>4</sup></b> | 120 bp<br>200 bp<br>235 bp<br>295 bp | 1070 bp       | *15:44:01-15:44:02<br>*15:95N<br>*15:45<br>*15:97                                                                                                                                       | *03:148<br><br><br>*04:146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>21</b>             | 165 bp<br>445 bp                     | <b>800 bp</b> | *15:47, 15:92N<br>*15:35                                                                                                                                                                | *02:35, 02:120, 04:238, 05:21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>22</b>             | 225 bp                               | <b>800 bp</b> | *15:38                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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Lot-specific information

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|-----------------------|--------|---------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | 295 bp |         | *15:97                       | *04:146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>23<sup>5</sup></b> | 175 bp | 1070 bp | *15:48                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                       | 545 bp |         | *15:29, 15:87                | *01:85, 03:376, 04:277, 08:22, 08:56, 08:154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                       |        |         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>24</b>             | 175 bp | 1070 bp | *15:32Q                      | *06:74Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 330 bp |         | *15:105Q                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                       | 380 bp |         | *15:41                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>25<sup>4</sup></b> | 125 bp | 1070 bp | *15:122N                     | <b>B*39:95N</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                       | 225 bp |         | *15:52                       | <b>B*15:363:02, B*18:91, B*35:247, B*39:122, B*58:45:02</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>26</b>             | 200 bp | 1070 bp | *15:56, 15:103, 15:127       | <b>B*15:193, B*35:132, B*35:246, B*35:283, B*39:53, B*39:57, B*40:171, B*51:95</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>27<sup>6</sup></b> | 330 bp | 1070 bp | *15:30, 15:105Q              | *07:174, 07:298, 08:112, 12:165                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                       | 375 bp |         | *15:123                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>28<sup>4</sup></b> | 85 bp  | 1070 bp | *15:33                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                       | 180 bp |         | *15:84Q                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>29<sup>4</sup></b> | 120 bp | 1070 bp | *15:96Q                      | *04:59Q, 16:16Q, <b>B*15:218Q</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                       | 255 bp |         | *15:81                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>30<sup>4</sup></b> | 90 bp  | 1070 bp | *15:82                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>31</b>             | 150 bp | 1070 bp | *15:07, 15:25, 15:85, 15:144 | *01:02:34, 01:21, 02:27:01-02:27:02, 02:65, 02:87, 02:115, 02:131, 03:04:25, 04:11, 04:29, 04:36, 04:55, 04:114, 04:172, 05:20, 07:02:09, 07:583, 08:01:01:01-08:02:10, 08:02:12-08:09, 08:11-08:63, 08:65-08:94, 08:95 <sup>w</sup> , 08:96-08:145, 08:147-08:166, 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, 12:03:35-12:03:47, 12:06-12:08, 12:10:01-12:20, 12:22-12:32, 12:34-12:40, 12:42Q-12:59, 12:61-12:68, 12:70-12:71, 12:73-12:122, 12:124-12:134, 12:136-12:145, 12:147-12:153, 12:155Q-12:194, 12:195:02, 12:196-12:233, 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, 14:79, 14:86, 14:90, 16:01:01:01-16:01:01:04, 16:01:03-16:01:15, 16:01:17-16:01:23, 16:04:01:01-16:04:01:02, 16:04:03-16:04:05, 16:06-16:08, 16:10-16:11, 16:13-16:18, 16:20-16:24, 16:26-16:36, 16:38-16:45, 16:49-16:59, 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, 16:92-16:93, 16:95-16:98, 16:100, 16:105-16:106, 16:109-16:114, 16:116-16:119, 16:122, <b>B*08:01:36, B*15:436, B*18:03:02, B*35:08:02, B*35:08:05, B*67:02</b> |
| <b>32</b>             | 160 bp | 1070 bp | *15:74                       | *02:06:01-02:06:02, 02:47, 06:168, 12:15, 12:208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Lot No.: 6G9**

**Lot-specific information**

|                       |                  |               |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>33<sup>4</sup></b> | 75 bp            | 1070 bp       | *15:02:01:01-15:05:10,<br>15:06:01-15:06:03,<br>15:08-15:10:03, 15:12-<br>15:13:01:02, 15:15,<br>15:18-15:19, 15:22-<br>15:24, 15:26, 15:28-<br>15:42, 15:44:01-15:47,<br>15:49-15:70, 15:72-<br>15:94, 15:96Q-15:115N,<br>15:117-15:143,<br>15:145N-15:155 | *01:118, 04:112, 04:169, 05:36, 06:44,<br>07:07, 07:09, 07:210, 07:247, 12:188,<br>16:70, 18:05                                                                                                                                                                                                                                                                |
| <b>34<sup>4</sup></b> | 110 bp<br>140 bp | 1070 bp       | *15:108<br>*15:114                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                |
| <b>35<sup>4</sup></b> | 120 bp           | 1070 bp       | *15:115N                                                                                                                                                                                                                                                    | *04:205N, 06:128N                                                                                                                                                                                                                                                                                                                                              |
| <b>36</b>             | 210 bp           | 1070 bp       | *15:102                                                                                                                                                                                                                                                     | *01:02:01:01-01:02:31, 01:02:33-01:03,<br>01:06-01:07:01, 01:08, 01:10-01:11,<br>01:13-01:20, 01:23-01:33, 01:38-01:48,<br>01:51-01:54, 01:56N-01:76, 01:78,<br>01:80-01:90, 01:92-01:96, 01:98N-<br>01:100, 01:103-01:113, 01:115-01:119,<br>01:121Q-01:130, 01:132-01:153, 03:58,<br>03:86, 03:94, 03:99:01-03:99:02, 04:37,<br>05:85, 05:107, 06:204, 14:45 |
| <b>37<sup>4</sup></b> | 125 bp<br>220 bp | 1070 bp       | *15:122N<br>*15:101                                                                                                                                                                                                                                         | <b>B*39:95N</b><br><b>B*40:270</b>                                                                                                                                                                                                                                                                                                                             |
| <b>38</b>             | 360 bp           | 1070 bp       | *15:124                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                |
| <b>39<sup>4</sup></b> | 110 bp<br>155 bp | 1070 bp       | *15:108<br>*15:132                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                |
| <b>40</b>             | 320 bp           | <b>800 bp</b> | *15:02:01:08N                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                |
| <b>41</b>             | 220 bp           | 1070 bp       | *15:145N                                                                                                                                                                                                                                                    | <b>B*08:82N</b>                                                                                                                                                                                                                                                                                                                                                |
| <b>42<sup>7</sup></b> | -                | -             | <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 C\*15 high 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 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 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.

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**Lot-specific information**

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

<sup>5</sup>Primer mixes 5 and 23 may give rise to a lower yield of HLA-specific PCR product than the other C\*15 primer mixes.

<sup>6</sup>Primer mixes 17, 18 and 27 may have tendencies of unspecific amplifications.

<sup>7</sup>Primer mix 42 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.

Lot No.: **6G9**

Lot-specific information  
**PRIMER SPECIFICATION**

| Well No.                                 | 1                 | 2         | 3         | 4                 | 5         | 6                 | 7         | 8         | 9                 | 10                | 11                | 12        |
|------------------------------------------|-------------------|-----------|-----------|-------------------|-----------|-------------------|-----------|-----------|-------------------|-------------------|-------------------|-----------|
| Length of spec. PCR product              | 330               | 175       | 85        | 315               | 100       | 305               | 140       | 160       | 135               | 170               | 315               | 100       |
|                                          |                   |           | 210       |                   | 160       | 345               |           | 185       | 305               |                   |                   | 200       |
|                                          |                   |           |           |                   |           | 370               |           |           |                   |                   |                   | 240       |
| Length of int. pos. control <sup>1</sup> | 800               | 1070      | 1070      | 1070              | 1070      | 1070              | 800       | 1070      | 1070              | 1070              | 800               | 1070      |
| 5'-primer(s) <sup>2</sup>                | 399               | 134       | 118       | 419               | 358       | 355               | 201       | 125       | 97                | 1 <sup>st</sup> I | 420               | 105       |
|                                          | 5'-CTg 3'         | 5'-CCA 3' | 5'-CCg 3' | 5'-gTC 3'         | 5'-TCT 3' | 5'-CCC 3'         | 5'-CCA 3' | 5'-CgA 3' | 5'-TCg 3'         | 5'-CgA 3'         | 5'-TTA 3'         | 5'-gCT 3' |
|                                          | 408               |           |           |                   | 420       | 379               |           | 420       | 118               |                   | 420               |           |
|                                          | 5'-ggA 3'         |           |           |                   | 5'-TTC 3' | 5'-ACg 3'         |           | 5'-TTA 3' | 5'-CCA 3'         |                   | 5'-TTA 3'         |           |
|                                          | 409               |           |           |                   |           | 419               |           |           | 430               |                   |                   |           |
|                                          | 5'-ggC 3'         |           |           |                   |           | 5'-gTA 3'         |           |           | 5'-ACC 3'         |                   |                   |           |
| 3'-primer(s) <sup>3</sup>                | 3 <sup>rd</sup> I | 270       | 164       | 3 <sup>rd</sup> I | 477       | 3 <sup>rd</sup> I | 302       | 270       | 201               | 134               | 3 <sup>rd</sup> I | 164       |
|                                          | 5'-CTC 3'         | 5'-TAg 3' | 5'-gCA 3' | 5'-CTC 3'         | 5'-gCg 3' | 5'-ggA 3'         | 5'-ggC 3' | 5'-TAg 3' | 5'-CTT 3'         | 5'-AgC 3'         | 5'-CTC 3'         | 5'-gCA 3' |
|                                          |                   |           | 289       |                   |           |                   | 302       | 539       | 3 <sup>rd</sup> I |                   |                   | 265       |
|                                          |                   |           | 5'-AgC 3' |                   |           |                   | 5'-ggC 3' | 5'-TCC 3' | 5'-CTC 3'         |                   |                   | 5'-CTA 3' |
|                                          |                   |           |           |                   |           |                   |           |           |                   |                   |                   | 302       |
|                                          |                   |           |           |                   |           |                   |           |           |                   |                   |                   | 5'-ggC 3' |
|                                          |                   |           |           |                   |           |                   |           |           |                   |                   |                   | 302       |
|                                          |                   |           |           |                   |           |                   |           |           |                   |                   |                   | 5'-ggC 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              | 125               | 130       | 85        | 90                | 140               | 215       | 165               | 120               | 165       | 225               | 175       | 175               |
|                                          | 185               | 440       |           | 165               | 215               |           | 355               | 200               | 445       | 295               | 545       | 330               |
|                                          |                   |           |           | 345               | 295               |           |                   | 235               |           |                   |           | 380               |
|                                          |                   |           |           |                   |                   |           |                   | 295               |           |                   |           |                   |
| Length of int. pos. control <sup>1</sup> | 1070              | 800       | 1070      | 1070              | 1070              | 1070      | 1070              | 1070              | 800       | 800               | 1070      | 1070              |
| 5'-primer(s) <sup>2</sup>                | 201               | 270       | 270       | 261               | 98                | 355       | 368               | 105               | 322       | 128               | 134       | 356               |
|                                          | 5'-CCA 3'         | 5'-AAg 3' | 5'-AAC 3' | 5'-AAC 3'         | 5'-CTC 3'         | 5'-TCA 3' | 5'-gTC 3'         | 5'-gCT 3'         | 5'-gCC 3' | 5'-AgT 3'         | 5'-CCA 3' | 5'-CAA 3'         |
|                                          | 2 <sup>nd</sup> I | 757       |           | 379               | 2 <sup>nd</sup> I |           | 560               | 3 <sup>rd</sup> I | 358       | 3 <sup>rd</sup> I | 972       | 404               |
|                                          | 5'-CCA 3'         | 5'-CCC 3' |           | 5'-ACg 3'         | 5'-CCA 3'         |           | 5'-CgA 3'         | 5'-Cgg 3'         | 5'-TCT 3' | 5'-Cgg 3'         | 5'-CTA 3' | 5'-CCg 3'         |
|                                          |                   |           |           | 560               |                   |           |                   |                   | 715       |                   |           | 562               |
|                                          |                   |           |           | 5'-CCT 3'         |                   |           |                   |                   | 5'-CAg 3' |                   |           | 5'-Cgg 3'         |
| 3'-primer(s) <sup>3</sup>                | 343               | 420       | 312       | 312               | 270               | 527       | 3 <sup>rd</sup> I | 186               | 477       | 312               | 266       | 3 <sup>rd</sup> I |
|                                          | 5'-T 3'           | 5'-gCT 3' | 5'-AgT 3' | 5'-AgT 3'         | 5'-TAg 3'         | 5'-CCg 3' | 5'-ggA 3'         | 5'-TCC 3'         | 5'-gCg 3' | 5'-AgT 3'         | 5'-TCA 3' | 5'-CTC 3'         |
|                                          | 412               | 846       |           | 3 <sup>rd</sup> I | 427               |           |                   | 186               | 846       | 845               | 1034      |                   |
|                                          | 5'-gTT 3'         | 5'-CAC 3' |           | 5'-ggA 3'         | 5'-gTT 3'         |           |                   | 5'-TCT 3'         | 5'-CAC 3' | 5'-ACA 3'         | 5'-AgT 3' |                   |
|                                          |                   |           |           |                   | 583               |           |                   | 265               |           |                   |           |                   |
|                                          |                   |           |           |                   | 5'-gTg 3'         |           |                   | 5'-CTA 3'         |           |                   |           |                   |
|                                          |                   |           |           |                   |                   |           |                   | 299               |           |                   |           |                   |
|                                          |                   |           |           |                   |                   |           |                   | 5'-TCT 3'         |           |                   |           |                   |
|                                          |                   |           |           |                   |                   |           |                   | 845               |           |                   |           |                   |
|                                          |                   |           |           |                   |                   |           |                   | 5'-ACA 3'         |           |                   |           |                   |
| Well No.                                 | 13                | 14        | 15        | 16                | 17                | 18        | 19                | 20                | 21        | 22                | 23        | 24                |



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**Lot-specific information**

| Well No.                                 | 25        | 26        | 27                | 28        | 29        | 30        | 31        | 32        | 33        | 34        | 35        | 36        |
|------------------------------------------|-----------|-----------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec.                          | 125       | 200       | 330               | 85        | 120       | 90        | 150       | 160       | 75        | 110       | 120       | 210       |
| PCR product                              | 225       |           | 375               | 180       | 255       |           |           |           |           | 140       |           |           |
| Length of int. pos. control <sup>1</sup> | 1070      | 1070      | 1070              | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      |
| 5'-primer(s) <sup>2</sup>                | 409       | 409       | 363               | 409       | 486       | 797       | 201       | 420       | 270       | 105       | 232       | 368       |
|                                          | 5'-ggC 3' | 5'-ggC 3' | 5'-AgT 3'         | 5'-ggC 3' | 5'-ACg 3' | 5'-CCg 3' | 5'-CCA 3' | 5'-TTA 3' | 5'-AAC 3' | 5'-gCT 3' | 5'-AgT 3' | 5'-gTg 3' |
|                                          |           |           | 404               |           | 631       |           |           |           |           |           |           |           |
|                                          |           |           | 5'-CCg 3'         |           | 5'-Agg 3' |           |           |           |           |           |           |           |
|                                          |           |           | 404               |           |           |           |           |           |           |           |           |           |
|                                          |           |           | 5'-CCA 3'         |           |           |           |           |           |           |           |           |           |
| 3'-primer(s) <sup>3</sup>                | 493       | 565       | 3 <sup>rd</sup> I | 455       | 563       | 846       | 312       | 538       | 302       | 172       | 312       | 538       |
|                                          | 5'-CTA 3' | 5'-CAT 3' | 5'-CTC 3'         | 5'-CCA 3' | 5'-CgT 3' | 5'-CAC 3' | 5'-Agg 3' | 5'-CCA 3' | 5'-ggT 3' | 5'-CAT 3' | 5'-AgT 3' | 5'-CCg 3' |
|                                          | 595       | 575       |                   | 549       | 846       |           |           |           |           | 205       |           |           |
|                                          | 5'-CCg 3' | 5'-ggg 3' |                   | 5'-..g 3' | 5'-CAC 3' |           |           |           |           | 5'-CCT 3' |           |           |
| Well No.                                 | 25        | 26        | 27                | 28        | 29        | 30        | 31        | 32        | 33        | 34        | 35        | 36        |

| Well No.                                 | 37        | 38        | 39        | 40                | 41        |
|------------------------------------------|-----------|-----------|-----------|-------------------|-----------|
| Length of spec.                          | 125       | 360       | 110       | 320               | 220       |
| PCR product                              | 220       |           | 155       |                   |           |
| Length of int. pos. control <sup>1</sup> | 1070      | 1070      | 1070      | 800               | 1070      |
| 5'-primer(s) <sup>2</sup>                | 409       | 283       | 105       | 312               | 409       |
|                                          | 5'-ggC 3' | 5'-AgA 3' | 5'-gCT 3' | 5'-AAA 3'         | 5'-ggC 3' |
| 3'-primer(s) <sup>3</sup>                | 493       | 353       | 172       | 3 <sup>rd</sup> I | 589       |
|                                          | 5'-CTA 3' | 5'-TgA 3' | 5'-CAT 3' | 5'-ggC 3'         | 5'-CTA 3' |
|                                          | 589       |           | 221       |                   |           |
|                                          | 5'-CTg 3' |           | 5'-ACT 3' |                   |           |
| Well No.                                 | 37        | 38        | 39        | 40                | 41        |

<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.

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Lot-specific information

| CELL LINE VALIDATION SHEET           |                             |            |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------------------------------|-----------------------------|------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-C*15 SSP primer set <sup>2</sup> |                             |            |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                      |                             |            |        |            | Well      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                      |                             |            |        |            | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        | 13        | 14        | 15        | 16        |
|                                      |                             |            |        | Prod. No.: | 201559901 | 201329002 | 201895503 | 201329004 | 201895505 | 201329006 | 201329007 | 201329008 | 201329009 | 201329010 | 201329011 | 201895512 | 201329013 | 201329014 | 201329015 | 201329016 |
|                                      | IHCW 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       | *07:18 |            | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 27                                   | 9191                        | CH1007     | *07:04 | *15:29     | +         | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 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        | *17:03 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         |
| 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     | -         | -         | -         | +         | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         |

Lot No.: **6G9**

Lot-specific information

| CELL LINE VALIDATION SHEET           |                             |            |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |
|--------------------------------------|-----------------------------|------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---|---|---|---|
| HLA-C*15 SSP primer set <sup>2</sup> |                             |            |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |
|                                      |                             |            |        |            | Well      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |
|                                      |                             |            |        | Prod. No.: | 17        | 18        | 19        | 20        | 21        | 22        | 23        | 24        | 25        | 26        | 27        | 28        | 29        | 30        | 31        | 32        |   |   |   |   |   |
|                                      |                             |            |        |            | 201329017 | 201559918 | 201329019 | 201778920 | 201550321 | 201550322 | 201778923 | 201550324 | 201778925 | 201550326 | 201778927 | 201550328 | 201550329 | 201329030 | 201895531 | 201559932 |   |   |   |   |   |
|                                      | IHCW 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       | *07:18 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |
| 27                                   | 9191                        | CH1007     | *07:04 | *15:29     | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |
| 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        | *17:03 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |
| 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     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | - | - | - | - | - |

Lot No.: **6G9**

Lot-specific information

| CELL LINE VALIDATION SHEET           |                             |            |        |  |            |           |           |           |           |           |           |           |           |           |
|--------------------------------------|-----------------------------|------------|--------|--|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-C*15 SSP primer set <sup>2</sup> |                             |            |        |  |            |           |           |           |           |           |           |           |           |           |
|                                      |                             |            |        |  |            | Well      |           |           |           |           |           |           |           |           |
|                                      |                             |            |        |  |            | 33        | 34        | 35        | 36        | 37        | 38        | 39        | 40        | 41        |
|                                      |                             |            |        |  | Prod. No.: | 201559933 | 201778934 | 201555935 | 201555936 | 201778937 | 201778940 | 201778939 | 201895540 | 201895541 |
|                                      | IHCW 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       | *07:18 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 27                                   | 9191                        | CH1007     | *07:04 |  | *15:29     | +         | -         | -         | -         | -         | -         | -         | -         | -         |
| 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        | *17:03 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 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     | -         | -         | -         | -         | -         | -         | -         | -         | -         |

**Lot No.: 6G9**

**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.

No DNAs carrying the alleles to be amplified by primer solutions 3, 6, 8, 13, 14, 16 to 22, 24 to 30, 32, 34, 35 and 37 to 41 were available. The specificity of the primers in primer solutions 3, 6, 8, 13, 14, 16 to 19, 22, 29 and 32 were tested by separately adding one or two 5'-primers, respectively one or more 3'-primers. In primer solutions 20, 25, 26, 28, 34, 37 and 39 to 41 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 21, 24, 27, 30, 35 and 38 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer mixes 1, 5, 8, 9, 14, 22 and 29 one or two of the 5'-primers could not be tested, and in primer mixes 3, 7, 12, 17, 22, 23 and 29 one or two of the 3'-primers could not be tested. Additional primers in primer solutions 9 and 23 were tested by separately adding one 5'-primer and/or one 3'-primer.

Lot No.: **6G9**

Lot-specific information

**HLA-C\*15**  
**101.626-12 – including *Taq* polymerase, IFU-01**  
**101.626-12u – without *Taq* polymerase, IFU-02**

**Product Insert**

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

**Lot No.: 6G9**

**Lot-specific information**

**Lot No.: 6G9**

**Lot-specific information**

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