

101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **36Y**

Lot-specific information

## **Olerup SSP® HLA-B\*35**

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| Product number:                  | 101.522-24/03 – including <i>Taq</i> pol.<br>101.522-24u/03u – without <i>Taq</i> pol. |
| Lot number:                      | 36Y                                                                                    |
| Expiry date:                     | 2017-October-01                                                                        |
| Number of tests:                 | 24 tests – Product No. 101.522-24/24u<br>3 tests – Product No. 101.522-03/03u          |
| Number of wells per test:        | 90+1                                                                                   |
| Storage - pre-aliquoted primers: | dark at -20°C                                                                          |
| - PCR Master Mix:                | -20°C                                                                                  |
| - Adhesive PCR seals             | RT                                                                                     |
| - Product Insert                 | RT                                                                                     |

**This Product Description is only valid for Lot No. 36Y.**

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

### **CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-B\*35 LOT (02X)**

The HLA-B\*35 kit is updated for new alleles to enable separation of:

- Confirmed<sup>1</sup> alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

A well containing Negative Control primer pairs has been added.

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

Three wells have been added to HLA-B\*35, wells **89 to 91**.

<sup>1</sup>As described in section Uniquely Identified Alleles.

The HLA-B\*35 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B\*35 lot was made (**Lot No. 02X**). The kit design is based on IMGT/HLA database 3.19.0

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As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

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

| Well | 5'-primer           | 3'-primer           | rationale                                                                                     |
|------|---------------------|---------------------|-----------------------------------------------------------------------------------------------|
| 17   | -                   | Modified            | 3'-primer modified for increased yield.                                                       |
| 33   | Moved/<br>exchanged | Moved/<br>exchanged | Exchanged primer pair moved to well 90 for decreased tendency of primer oligomer formation.   |
| 65   | Added               | -                   | 5'-primer added for improved HLA-specific amplification of the B*35:148 allele.               |
| 80   | -                   | Added               | 3'-primer added for the B*35:228 allele.                                                      |
| 81   | -                   | Added               | 3'-primer added for the B*35:228 allele.                                                      |
| 88   | Added               | Added               | Updated negative control moved to well 91, primer pair added for improved allelic resolution. |
| 89   | New                 | New                 | New primer pair added for the B*35:259 allele.                                                |
| 90   | Added/<br>exchanged | Added/<br>exchanged | Exchanged primer pair added from well 33.                                                     |
| 91   | -                   | -                   | Updated negative control.                                                                     |

Change in revision R01 compared to R00:

1. Primer mix 32 amplifies the B\*07:109 and \*18:03 alleles. This has been corrected in the Specificity and Interpretation Tables.

Changes in revision R02 compared to R01:

1. Primer mix 86 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*35 resolution primer mixes. A foot note has been added in the Specificity Table.

Change in revision R03 compared to R02:

1. Primer mix 24 does amplify the B\*52:28 allele. Primer mix 37 does not amplify the C\*03:102 allele. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R04 compared to R03:

1. Primer mix 37 amplifies the B\*54:16 and B\*55:46 alleles. This has been corrected in the Specificity and Interpretation Tables.

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Well **91** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP®* HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.  
The PCR product generated by the positive control primer pair is 430 base pairs.

| Length of PCR product        | 105                  | 200                     | 105                  | 80                   | 75                   | 80                   | 85                   |
|------------------------------|----------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>5'-primer<sup>1</sup></b> | <b>164</b>           | <b>340</b>              | <b>440</b>           | <b>45</b>            | <b>45</b>            | <b>43</b>            | <b>36</b>            |
|                              | 5'-CAC <sup>3'</sup> | 5'-Agg <sup>3'</sup>    | 5'-TTA <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-TAC <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>36</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-TAT <sup>3'</sup> |
| <b>3'-primer<sup>2</sup></b> | <b>231</b>           | <b>2<sup>nd</sup> I</b> | <b>507</b>           | <b>59</b>            | <b>58</b>            | <b>57</b>            | <b>47</b>            |
|                              | 5'-TgC <sup>3'</sup> | 5'-AAA <sup>3'</sup>    | 5'-TTg <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-ggC <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-ACA <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>48</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-gCA <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>48</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-gCC <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>52</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-TgT <sup>3'</sup> |
| <b>A*</b>                    | +                    | +                       | +                    |                      |                      |                      |                      |
| <b>B*</b>                    | +                    | +                       | +                    |                      |                      |                      |                      |
| <b>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-B\*35 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*35:01 to B\*35:279 alleles.

#### PLATE LAYOUT

Each test consists of 91 PCR reactions in a 96 well cut PCR plate. Wells 92 to 96 are empty.

|    |    |    |       |       |       |       |       |
|----|----|----|-------|-------|-------|-------|-------|
| 1  | 2  | 3  | 4     | 5     | 6     | 7     | 8     |
| 9  | 10 | 11 | 12    | 13    | 14    | 15    | 16    |
| 17 | 18 | 19 | 20    | 21    | 22    | 23    | 24    |
| 25 | 26 | 27 | 28    | 29    | 30    | 31    | 32    |
| 33 | 34 | 35 | 36    | 37    | 38    | 39    | 40    |
| 41 | 42 | 43 | 44    | 45    | 46    | 47    | 48    |
| 49 | 50 | 51 | 52    | 53    | 54    | 55    | 56    |
| 57 | 58 | 59 | 60    | 61    | 62    | 63    | 64    |
| 65 | 66 | 67 | 68    | 69    | 70    | 71    | 72    |
| 73 | 74 | 75 | 76    | 77    | 78    | 79    | 80    |
| 81 | 82 | 83 | 84    | 85    | 86    | 87    | 88    |
| 89 | 90 | NC | empty | empty | empty | empty | empty |

The 96 well cut PCR plate is marked with 'HLA-B\*35' in silver/gray ink.

Well No. 1 is marked with the Lot No. '36Y'.

Wells 1 to 90 – HLA-B\*35 high resolution primers.

Well 91 – 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 covered with a PCR-compatible foil.

#### INTERPRETATION

Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B\*35 alleles will be amplified by primer mixes 1 to 9, 11 to 41, 43 to 51, 55, 56, 58, 59, 61, 67 to 70, 72, 73, 75, 76, 83, 85, 86 and 88 to 90. In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 3, 10, 11, 14, 15, 18, 20, 22, 23, 28, 30 to 32, 34, 36, 37, 39, 43, 47, 58, 61 to 63, 76, 85 and 89.

For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*35 alleles, i.e. **B\*35:01 to B\*35:279**, recognized by the HLA Nomenclature Committee in January 2015<sup>1,2</sup> will be amplified by the primers in the HLA-B\*35 subtyping kit.

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The HLA-B\*35 kit enables separation of the confirmed HLA-B\*35 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-B\*35 alleles is listed below.

The HLA-B\*35 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The following HLA-B\*35 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

| Alleles            | Primer mix |
|--------------------|------------|
| B*35:122, 35:123   | 61         |
| B*35:130N, 35:134N | 64         |
| B*35:132, 35:144   | 62         |

The HLA-B\*35 subtyping kit cannot distinguish the following silent mutations: the B\*35:01:01:01-35:01:03, 35:01:05-35:01:16, 35:01:18-35:01:22, 35:01:24-35:01:27, 35:01:29-35:01:33 and 35:01:35-35:01:41, the B\*35:02:01-35:02:07, the B\*35:03:01, 35:03:03-35:03:06, 35:03:08-35:03:10, 35:03:12-35:03:16 and 35:03:19, the B\*35:03:12 and 35:03:18, the B\*35:04:01-35:04:02, the B\*35:05:01-35:05:03, the B\*35:08:01-35:08:02, 35:08:04 and 35:08:06-35:08:08, the B\*35:09:02-35:09:03, the B\*35:11:01 and B\*35:11:03, the B\*35:12:01-35:12:03, the 35:15:01 and 35:15:02, the 35:17:01-35:17:02, the B\*35:20:01-35:20:02, the B\*35:24:01-35:24:02, the B\*35:29:01-35:29:02, the B\*35:32:01-35:32:02, the B\*35:101:01-35:101:02, the B\*35:108:01-35:108:02 or the B\*35:150:01-35:150:02 alleles.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2015-January-19, release 3.19.0, [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>.

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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>B*35:01:01:01</b> | <b>Confirmed</b>    | B*35:02:07        | Unconfirmed         | B*35:15:02        | Unconfirmed         | <b>B*35:59</b>     | <b>Confirmed</b>    |
| <b>B*35:01:01:02</b> | <b>Confirmed</b>    | <b>B*35:03:01</b> | <b>Confirmed</b>    | <b>B*35:16</b>    | <b>Confirmed</b>    | B*35:60            | Unconfirmed         |
| B*35:01:02           | Unconfirmed         | B*35:03:02        | Unconfirmed         | <b>B*35:17:01</b> | <b>Confirmed</b>    | <b>B*35:61:01</b>  | <b>Confirmed</b>    |
| B*35:01:03           | Unconfirmed         | B*35:03:03        | Unconfirmed         | <b>B*35:17:02</b> | <b>Confirmed</b>    | B*35:61:02         | Unconfirmed         |
| <b>B*35:01:04</b>    | <b>Confirmed</b>    | B*35:03:04        | Unconfirmed         | B*35:18           | Unconfirmed         | <b>B*35:62</b>     | <b>Confirmed</b>    |
| <b>B*35:01:05</b>    | <b>Confirmed</b>    | B*35:03:05        | Unconfirmed         | <b>B*35:19</b>    | <b>Confirmed</b>    | B*35:63            | Unconfirmed         |
| B*35:01:06           | Unconfirmed         | B*35:03:06        | Unconfirmed         | <b>B*35:20:01</b> | <b>Confirmed</b>    | <b>B*35:64:01</b>  | <b>Confirmed</b>    |
| <b>B*35:01:07</b>    | <b>Confirmed</b>    | B*35:03:07        | Unconfirmed         | <b>B*35:20:02</b> | <b>Confirmed</b>    | B*35:64:02         | Unconfirmed         |
| B*35:01:08           | Unconfirmed         | B*35:03:08        | Unconfirmed         | <b>B*35:21</b>    | <b>Confirmed</b>    | <b>B*35:65Q</b>    | <b>Confirmed</b>    |
| <b>B*35:01:09</b>    | <b>Confirmed</b>    | B*35:03:09        | Unconfirmed         | <b>B*35:22</b>    | <b>Confirmed</b>    | B*35:66            | Unconfirmed         |
| B*35:01:10           | Unconfirmed         | B*35:03:10        | Unconfirmed         | <b>B*35:23</b>    | <b>Confirmed</b>    | B*35:67            | Unconfirmed         |
| <b>B*35:01:11</b>    | <b>Confirmed</b>    | <b>B*35:03:11</b> | <b>Confirmed</b>    | <b>B*35:24:01</b> | <b>Confirmed</b>    | B*35:68:01         | Unconfirmed         |
| B*35:01:12           | Unconfirmed         | B*35:03:12        | Unconfirmed         | <b>B*35:24:02</b> | <b>Confirmed</b>    | <b>B*35:68:02</b>  | <b>Confirmed</b>    |
| B*35:01:13           | Unconfirmed         | B*35:03:13        | Unconfirmed         | B*35:25           | Unconfirmed         | B*35:69            | Unconfirmed         |
| B*35:01:14           | Unconfirmed         | B*35:03:14        | Unconfirmed         | <b>B*35:26</b>    | <b>Confirmed</b>    | B*35:70            | Unconfirmed         |
| <b>B*35:01:15</b>    | <b>Confirmed</b>    | B*35:03:15        | Unconfirmed         | B*35:27           | Unconfirmed         | B*35:71            | Unconfirmed         |
| B*35:01:16           | Unconfirmed         | B*35:03:16        | Unconfirmed         | <b>B*35:28</b>    | <b>Confirmed</b>    | <b>B*35:72</b>     | <b>Confirmed</b>    |
| <b>B*35:01:17</b>    | <b>Confirmed</b>    | B*35:03:17        | Unconfirmed         | <b>B*35:29:01</b> | <b>Confirmed</b>    | <b>B*35:74</b>     | <b>Confirmed</b>    |
| B*35:01:18           | Unconfirmed         | B*35:03:18        | Unconfirmed         | B*35:29:02        | Unconfirmed         | B*35:75            | Unconfirmed         |
| <b>B*35:01:19</b>    | <b>Confirmed</b>    | B*35:03:19        | Unconfirmed         | <b>B*35:30</b>    | <b>Confirmed</b>    | B*35:76            | Unconfirmed         |
| B*35:01:20           | Unconfirmed         | <b>B*35:04:01</b> | <b>Confirmed</b>    | <b>B*35:31</b>    | <b>Confirmed</b>    | <b>B*35:77</b>     | <b>Confirmed</b>    |
| B*35:01:21           | Unconfirmed         | <b>B*35:04:02</b> | <b>Confirmed</b>    | <b>B*35:32:01</b> | <b>Confirmed</b>    | B*35:78            | Unconfirmed         |
| B*35:01:22           | Unconfirmed         | B*35:04:03        | Unconfirmed         | B*35:32:02        | Unconfirmed         | B*35:79            | Unconfirmed         |
| <b>B*35:01:23</b>    | <b>Confirmed</b>    | <b>B*35:05:01</b> | <b>Confirmed</b>    | <b>B*35:33</b>    | <b>Confirmed</b>    | B*35:80            | Unconfirmed         |
| B*35:01:24           | Unconfirmed         | <b>B*35:05:02</b> | <b>Confirmed</b>    | <b>B*35:34</b>    | <b>Confirmed</b>    | <b>B*35:81</b>     | <b>Confirmed</b>    |
| B*35:01:25           | Unconfirmed         | B*35:05:03        | Unconfirmed         | <b>B*35:35</b>    | <b>Confirmed</b>    | B*35:82            | Unconfirmed         |
| B*35:01:26           | Unconfirmed         | <b>B*35:06</b>    | <b>Confirmed</b>    | B*35:36           | Unconfirmed         | B*35:83            | Unconfirmed         |
| <b>B*35:01:27</b>    | <b>Confirmed</b>    | B*35:07           | Unconfirmed         | <b>B*35:37</b>    | <b>Confirmed</b>    | B*35:84            | Unconfirmed         |
| B*35:01:28           | Unconfirmed         | <b>B*35:08:01</b> | <b>Confirmed</b>    | <b>B*35:38</b>    | <b>Confirmed</b>    | B*35:85            | Unconfirmed         |
| <b>B*35:01:29</b>    | <b>Confirmed</b>    | <b>B*35:08:02</b> | <b>Confirmed</b>    | B*35:39           | Unconfirmed         | B*35:86            | Unconfirmed         |
| B*35:01:30           | Unconfirmed         | B*35:08:03        | Unconfirmed         | B*35:40N          | Unconfirmed         | <b>B*35:87</b>     | <b>Confirmed</b>    |
| B*35:01:31           | Unconfirmed         | <b>B*35:08:04</b> | <b>Confirmed</b>    | <b>B*35:41</b>    | <b>Confirmed</b>    | B*35:88            | Unconfirmed         |
| B*35:01:32           | Unconfirmed         | B*35:08:05        | Unconfirmed         | <b>B*35:42:01</b> | <b>Confirmed</b>    | B*35:89            | Unconfirmed         |
| B*35:01:33           | Unconfirmed         | B*35:08:06        | Unconfirmed         | B*35:42:02        | Unconfirmed         | B*35:90            | Unconfirmed         |
| B*35:01:34           | Unconfirmed         | <b>B*35:08:07</b> | <b>Confirmed</b>    | <b>B*35:43:01</b> | <b>Confirmed</b>    | B*35:91            | Unconfirmed         |
| <b>B*35:01:35</b>    | <b>Confirmed</b>    | <b>B*35:08:08</b> | <b>Confirmed</b>    | B*35:44           | Unconfirmed         | B*35:92            | Unconfirmed         |
| B*35:01:36           | Unconfirmed         | <b>B*35:09:01</b> | <b>Confirmed</b>    | B*35:45           | Unconfirmed         | B*35:93            | Unconfirmed         |
| B*35:01:37           | Unconfirmed         | B*35:09:02        | Unconfirmed         | B*35:46           | Unconfirmed         | B*35:94            | Unconfirmed         |
| B*35:01:38           | Unconfirmed         | <b>B*35:09:03</b> | <b>Confirmed</b>    | <b>B*35:47</b>    | <b>Confirmed</b>    | <b>B*35:95</b>     | <b>Confirmed</b>    |
| B*35:01:39           | Unconfirmed         | <b>B*35:10</b>    | <b>Confirmed</b>    | <b>B*35:48</b>    | <b>Confirmed</b>    | <b>B*35:96</b>     | <b>Confirmed</b>    |
| B*35:01:40           | Unconfirmed         | <b>B*35:11:01</b> | <b>Confirmed</b>    | <b>B*35:49</b>    | <b>Confirmed</b>    | <b>B*35:97</b>     | <b>Confirmed</b>    |
| B*35:01:41           | Unconfirmed         | B*35:11:02        | Unconfirmed         | B*35:50           | Unconfirmed         | <b>B*35:98</b>     | <b>Confirmed</b>    |
| B*35:01:42           | Unconfirmed         | <b>B*35:11:03</b> | <b>Confirmed</b>    | B*35:51           | Unconfirmed         | <b>B*35:99</b>     | <b>Confirmed</b>    |
| B*35:01:43           | Unconfirmed         | <b>B*35:12:01</b> | <b>Confirmed</b>    | B*35:52           | Unconfirmed         | <b>B*35:100</b>    | <b>Confirmed</b>    |
| <b>B*35:02:01</b>    | <b>Confirmed</b>    | B*35:12:02        | Unconfirmed         | B*35:53N          | Unconfirmed         | <b>B*35:101:01</b> | <b>Confirmed</b>    |
| <b>B*35:02:02</b>    | <b>Confirmed</b>    | B*35:12:03        | Unconfirmed         | B*35:54           | Unconfirmed         | B*35:101:02        | Unconfirmed         |
| B*35:02:03           | Unconfirmed         | <b>B*35:13</b>    | <b>Confirmed</b>    | <b>B*35:55</b>    | <b>Confirmed</b>    | B*35:102           | Unconfirmed         |
| B*35:02:04           | Unconfirmed         | <b>B*35:14:01</b> | <b>Confirmed</b>    | B*35:56           | Unconfirmed         | <b>B*35:103</b>    | <b>Confirmed</b>    |
| B*35:02:05           | Unconfirmed         | B*35:14:02        | Unconfirmed         | <b>B*35:57</b>    | <b>Confirmed</b>    | <b>B*35:104</b>    | <b>Confirmed</b>    |
| B*35:02:06           | Unconfirmed         | <b>B*35:15:01</b> | <b>Confirmed</b>    | <b>B*35:58</b>    | <b>Confirmed</b>    | <b>B*35:105</b>    | <b>Confirmed</b>    |



101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **36Y**

Lot-specific information

| Allele      | Status <sup>1</sup> | Allele    | Status <sup>1</sup> | Allele    | Status <sup>1</sup> | Allele   | Status <sup>1</sup> |
|-------------|---------------------|-----------|---------------------|-----------|---------------------|----------|---------------------|
| B*35:106    | Confirmed           | B*35:154  | Unconfirmed         | B*35:204  | Unconfirmed         | B*35:254 | Unconfirmed         |
| B*35:107    | Unconfirmed         | B*35:155  | Unconfirmed         | B*35:205  | Unconfirmed         | B*35:255 | Unconfirmed         |
| B*35:108:01 | Confirmed           | B*35:156  | Unconfirmed         | B*35:206  | Unconfirmed         | B*35:256 | Unconfirmed         |
| B*35:108:02 | Confirmed           | B*35:157  | Confirmed           | B*35:207  | Unconfirmed         | B*35:257 | Unconfirmed         |
| B*35:109    | Unconfirmed         | B*35:158  | Confirmed           | B*35:208  | Unconfirmed         | B*35:258 | Unconfirmed         |
| B*35:110    | Unconfirmed         | B*35:159  | Unconfirmed         | B*35:209  | Unconfirmed         | B*35:259 | Confirmed           |
| B*35:111    | Unconfirmed         | B*35:160  | Unconfirmed         | B*35:210  | Confirmed           | B*35:260 | Unconfirmed         |
| B*35:112    | Confirmed           | B*35:161  | Unconfirmed         | B*35:211  | Unconfirmed         | B*35:261 | Unconfirmed         |
| B*35:113    | Confirmed           | B*35:162  | Unconfirmed         | B*35:212  | Unconfirmed         | B*35:262 | Unconfirmed         |
| B*35:114    | Unconfirmed         | B*35:163  | Confirmed           | B*35:213  | Unconfirmed         | B*35:263 | Unconfirmed         |
| B*35:115    | Confirmed           | B*35:164  | Unconfirmed         | B*35:214  | Confirmed           | B*35:264 | Unconfirmed         |
| B*35:116    | Confirmed           | B*35:165N | Unconfirmed         | B*35:215  | Unconfirmed         | B*35:265 | Unconfirmed         |
| B*35:117    | Confirmed           | B*35:166  | Unconfirmed         | B*35:216N | Unconfirmed         | B*35:266 | Unconfirmed         |
| B*35:118    | Unconfirmed         | B*35:167  | Confirmed           | B*35:217  | Confirmed           | B*35:267 | Unconfirmed         |
| B*35:119    | Unconfirmed         | B*35:168  | Unconfirmed         | B*35:218  | Unconfirmed         | B*35:268 | Unconfirmed         |
| B*35:120    | Confirmed           | B*35:169  | Confirmed           | B*35:219  | Confirmed           | B*35:269 | Unconfirmed         |
| B*35:121    | Confirmed           | B*35:170  | Unconfirmed         | B*35:220  | Unconfirmed         | B*35:270 | Unconfirmed         |
| B*35:122    | Unconfirmed         | B*35:171  | Unconfirmed         | B*35:221  | Unconfirmed         | B*35:271 | Unconfirmed         |
| B*35:123    | Unconfirmed         | B*35:172  | Unconfirmed         | B*35:222  | Unconfirmed         | B*35:272 | Unconfirmed         |
| B*35:124    | Confirmed           | B*35:173N | Unconfirmed         | B*35:223  | Unconfirmed         | B*35:273 | Unconfirmed         |
| B*35:125    | Unconfirmed         | B*35:174  | Confirmed           | B*35:224  | Unconfirmed         | B*35:274 | Confirmed           |
| B*35:126    | Confirmed           | B*35:175  | Unconfirmed         | B*35:225  | Confirmed           | B*35:275 | Unconfirmed         |
| B*35:127    | Unconfirmed         | B*35:176  | Confirmed           | B*35:226  | Unconfirmed         | B*35:276 | Confirmed           |
| B*35:128    | Confirmed           | B*35:177  | Unconfirmed         | B*35:227  | Confirmed           | B*35:277 | Unconfirmed         |
| B*35:129N   | Unconfirmed         | B*35:178  | Unconfirmed         | B*35:228  | Confirmed           | B*35:278 | Unconfirmed         |
| B*35:130N   | Unconfirmed         | B*35:179  | Unconfirmed         | B*35:229  | Unconfirmed         | B*35:279 | Unconfirmed         |
| B*35:131    | Unconfirmed         | B*35:180  | Unconfirmed         | B*35:230  | Confirmed           |          |                     |
| B*35:132    | Confirmed           | B*35:181  | Unconfirmed         | B*35:231  | Unconfirmed         |          |                     |
| B*35:133    | Unconfirmed         | B*35:182  | Confirmed           | B*35:232  | Unconfirmed         |          |                     |
| B*35:134N   | Unconfirmed         | B*35:183  | Unconfirmed         | B*35:233  | Confirmed           |          |                     |
| B*35:135    | Unconfirmed         | B*35:184  | Unconfirmed         | B*35:234  | Unconfirmed         |          |                     |
| B*35:136    | Confirmed           | B*35:185  | Unconfirmed         | B*35:235  | Unconfirmed         |          |                     |
| B*35:137    | Confirmed           | B*35:186  | Unconfirmed         | B*35:236  | Unconfirmed         |          |                     |
| B*35:138    | Unconfirmed         | B*35:187  | Unconfirmed         | B*35:237  | Unconfirmed         |          |                     |
| B*35:139    | Unconfirmed         | B*35:188  | Unconfirmed         | B*35:238  | Unconfirmed         |          |                     |
| B*35:140    | Unconfirmed         | B*35:189  | Unconfirmed         | B*35:239  | Unconfirmed         |          |                     |
| B*35:141    | Confirmed           | B*35:190  | Unconfirmed         | B*35:240  | Unconfirmed         |          |                     |
| B*35:142    | Unconfirmed         | B*35:191  | Confirmed           | B*35:241  | Unconfirmed         |          |                     |
| B*35:143    | Unconfirmed         | B*35:192  | Unconfirmed         | B*35:242  | Unconfirmed         |          |                     |
| B*35:144    | Confirmed           | B*35:193  | Confirmed           | B*35:243  | Unconfirmed         |          |                     |
| B*35:145N   | Unconfirmed         | B*35:194  | Confirmed           | B*35:244  | Unconfirmed         |          |                     |
| B*35:146    | Unconfirmed         | B*35:195  | Unconfirmed         | B*35:245  | Unconfirmed         |          |                     |
| B*35:147    | Unconfirmed         | B*35:196  | Unconfirmed         | B*35:246  | Unconfirmed         |          |                     |
| B*35:148    | Confirmed           | B*35:197  | Unconfirmed         | B*35:247  | Unconfirmed         |          |                     |
| B*35:149    | Confirmed           | B*35:198  | Unconfirmed         | B*35:248  | Unconfirmed         |          |                     |
| B*35:150:01 | Unconfirmed         | B*35:199  | Unconfirmed         | B*35:249  | Unconfirmed         |          |                     |
| B*35:150:02 | Unconfirmed         | B*35:200  | Confirmed           | B*35:250  | Unconfirmed         |          |                     |
| B*35:151    | Unconfirmed         | B*35:201  | Unconfirmed         | B*35:251  | Unconfirmed         |          |                     |
| B*35:152    | Unconfirmed         | B*35:202  | Unconfirmed         | B*35:252  | Unconfirmed         |          |                     |
| B*35:153    | Unconfirmed         | B*35:203  | Unconfirmed         | B*35:253  | Unconfirmed         |          |                     |

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2015-January-19, release 3.19.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

## RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B\*35 homo- and heterozygotes is available upon request.

101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **36Y**

Lot-specific information  
**SPECIFICITY TABLE**

**HLA-B\*35 SSP subtyping**

**Specificities and sizes of the PCR products of the 90+1 primer mixes used for HLA-B\*35 SSP subtyping**

| Primer Mix           | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | Amplified HLA-B*35 alleles <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Other amplified Class I alleles <sup>4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|----------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1<sup>5</sup></b> | 95 bp                                  | <b>800 bp</b>                     | *35:01:01:01-35:09:03,<br>35:11:01-35:12:03,<br>35:14:01-35:15:02,<br>35:17:01-35:18, 35:20:01-<br>35:24:02, 35:27,<br>35:29:01-35:45, 35:48,<br>35:50-35:62, 35:64:01-<br>35:68:02, 35:70-35:72,<br>35:74-35:75, 35:77-35:79,<br>35:81-35:153, 35:155-<br>35:185, 35:187-35:190,<br>35:192-35:197, 35:199-<br>35:206, 35:208-35:209,<br>35:211-35:216N, 35:218-<br>35:225, 35:227-35:253,<br>35:255-35:269, 35:272-<br>35:273, 35:275-35:279                                                                                                                                                                          | *08:32, 08:133, 15:308, 18:01:01:01-18:11, 18:13-<br>18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65,<br>18:67-18:106, 37:08, 38:06-38:07, 39:19:01-<br>39:19:02, 44:06, 51:01:01:01-51:01:10, 51:01:12-<br>51:24:05, 51:26-51:46, 51:48-51:103, 51:105-<br>51:111, 51:113-51:117, 51:119-51:146, 51:148-<br>51:185, 53:01:01-53:16, 53:18-53:27, 53:29, 53:31-<br>53:37, 56:45 <sup>w</sup> , 78:01:01-78:04, 78:07-78:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>2</b>             | 150 bp                                 | 1070 bp                           | *35:01:01:01-35:04:03,<br>35:06-35:08:08, 35:10-<br>35:17:02, 35:19-35:21,<br>35:23-35:30, 35:33-35:36,<br>35:38-35:42:02, 35:45-<br>35:50, 35:52, 35:54-<br>35:57, 35:59, 35:61:01-<br>35:63, 35:65Q, 35:69-<br>35:71, 35:74, 35:76-<br>35:78, 35:80-35:85,<br>35:90-35:96, 35:98,<br>35:100-35:101:02,<br>35:103-35:113, 35:115-<br>35:116, 35:120-35:126,<br>35:128-35:134N, 35:136-<br>35:150:02, 35:152-<br>35:173N, 35:175-35:184,<br>35:186-35:198, 35:200-<br>35:204, 35:206-35:229,<br>35:231, 35:233, 35:236-<br>35:250, 35:252-35:259,<br>35:261-35:264, 35:266-<br>35:272, 35:274-35:275,<br>35:277-35:279 | *07:235, 08:49, 13:01:01-13:01:09, 13:06-13:07N,<br>13:12:01-13:13, 13:17, 13:20, 13:22:01-13:23,<br>13:25-13:26:02, 13:28-13:29, 13:36, 13:39, 13:43,<br>13:50-13:52, 13:57, 13:60-13:61, 13:63N, 13:73,<br>13:76N-13:80, 13:83, 14:10, 15:02:01-15:02:09,<br>15:13:01-15:13:02, 15:20-15:21, 15:25:01-<br>15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85,<br>15:88-15:89, 15:106, 15:112, 15:121, 15:139,<br>15:144, 15:154, 15:165, 15:170, 15:194, 15:204,<br>15:213-15:214, 15:223, 15:240, 15:250, 15:265,<br>15:271, 15:283, 15:289, 15:291, 15:297, 15:301-<br>15:302N, 15:308, 15:319, 15:325, 15:328, 15:330,<br>15:341, 18:22, 18:69, 18:105, 27:19, 27:30,<br>27:127, 37:01:01-37:01:07, 37:01:09, 37:03N-<br>37:06:02, 37:08, 37:10-37:11, 37:13-37:43, 37:45-<br>37:50, 37:52-37:54, 38:20, 39:42, 40:28,<br>44:02:01:01-44:02:33, 44:02:35-44:14, 44:16-<br>44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-<br>44:46, 44:48-44:52N, 44:55-44:64:02, 44:66-44:98,<br>44:101-44:105, 44:107-44:134, 44:136-44:137,<br>44:139-44:157, 44:159-44:165, 44:167-44:181,<br>44:183, 44:185-44:191, 44:194-44:196, 44:198N-<br>44:212, 44:214, 46:33, 48:02:01-48:02:03, 48:25,<br>50:17, 51:04, 51:42, 51:46, 51:56:01-51:56:02,<br>51:139, 53:01:01-53:13, 53:15-53:39, 55:14, 56:09,<br>56:11-56:12, 57:01:01-57:01:04, 57:01:06-57:10,<br>57:12, 57:14:01-57:20, 57:22-57:30, 57:32-57:46,<br>57:48-57:73, 58:01:01-58:01:02, |



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101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **36Y**

Lot-specific information

|                        |        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|--------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        |        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 58:01:04-58:01:15, 58:01:17-58:01:18, 58:04-58:05, 58:09-58:15, 58:17N, 58:19, 58:21-58:24, 58:28-58:29, 58:31N-58:37, 58:39N-58:42, 58:44-58:45:02, 58:47-58:59, 58:62-58:69, 83:01,<br><b>C*03:102, C*03:263</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>3<sup>5,7</sup></b> | 115 bp | 1070 bp | *35:01:01:01-35:01:33, 35:01:35-35:01:41, 35:01:43, 35:03:01, 35:03:03-35:03:19, 35:05:01-35:05:03, 35:07-35:08:08, 35:10-35:11:01, 35:11:03, 35:13-35:14:01, 35:15:01-35:17:02, 35:19-35:21, 35:23-35:30, 35:32:01-35:42:02, 35:45-35:58, 35:61:01-35:63, 35:64:02-35:66, 35:68:01-35:72, 35:74-35:78, 35:80, 35:82, 35:84-35:85, 35:89-35:94, 35:96-35:98, 35:100-35:101:02, 35:103-35:113, 35:115-35:116, 35:119-35:120, 35:122-35:128, 35:130N-35:134N, 35:136-35:148, 35:150:01-35:153, 35:155-35:156, 35:158-35:161, 35:163, 35:165N-35:171, 35:173N-35:181, 35:186-35:200, 35:202-35:204, 35:206-35:210, 35:212, 35:214, 35:216N-35:219, 35:221-35:229, 35:231-35:232, 35:235-35:250, 35:252-35:257, 35:259-35:260, 35:262-35:264, 35:267-35:269, 35:271-35:272, 35:274-35:275, 35:277-35:279 | *07:02:13, 07:02:35, 07:22:02, 07:68:02, 07:151:02, 07:235, 08:07, 08:37, 08:89, 08:107, 13:26:01-13:26:02, 13:35, 13:72, 14:23, 15:03:02, 15:03:04, 15:05:02, 15:07:03, 15:20, 15:27:03, 15:38:02, 15:39:02, 15:179:01, 15:269, 15:275, 18:01:01:01-18:01:09, 18:01:11-18:15, 18:17N-18:19, 18:22-18:25, 18:27-18:56, 18:58-18:60, 18:62-18:96, 18:98-18:100, 18:102-18:106, 27:34, 37:09, 37:35, 38:29, 38:52, 39:07, 39:15, 39:29, 39:43, 39:49, 39:55, 39:91, 41:04, 41:18, 41:21, 42:09, 42:16, 44:03:21, 44:17, 44:43:01, 44:45, 44:51, 44:107, 44:123, 44:135, 45:09, 46:01:03, 46:01:16, 46:13:01, 46:21:02, 46:33, 48:02:01-48:02:03, 48:25, 49:04:01-49:04:02, 51:37, 51:45, 51:90, 51:92:01-51:92:02, 51:135, 52:12, 53:01:01-53:01:02, 53:01:04-53:06, 53:08:01, 53:09-53:18, 53:20-53:35, 53:37-53:39, 54:09, 54:14, 54:16, 55:14, 55:23, 55:27, 55:46, 55:68, 56:09, 56:11, 56:18, 56:31-56:32, 57:01:16, 57:01:19, 57:14:01, 58:01:01-58:01:04, 58:01:06-58:02, 58:04-58:07, 58:09-58:19, 58:21-58:26, 58:29, 58:31N-58:64, 58:66-58:69, <b>C*01:02:19, C*01:71, C*01:101-01:102, C*02:02:19, C*02:23, C*02:36, C*07:01:24, C*07:02:67, C*07:123, C*07:173, C*07:178, C*07:182, C*07:266, C*07:284, C*07:294, C*07:297, C*15:02:05, C*15:02:13, C*15:06:03</b> |
| <b>4</b>               | 280 bp | 1070 bp | *35:01:01:01-35:01:43, 35:05:01-35:05:03, 35:07-35:08:08, 35:10-35:11:03, 35:14:01-35:17:02, 35:19-35:21, 35:23-35:30, 35:32:01-35:32:02, 35:35, 35:37, 35:40N-35:43:01, 35:45-35:54, 35:57-35:58, 35:61:01-35:64:02, 35:66-35:69, 35:71-35:72, 35:76-35:80, 35:82, 35:86, 35:89-35:94, 35:97, 35:99-35:105, 35:107-35:108:02, 35:110-35:126, 35:130N-35:135, 35:137-35:148, 35:158-35:159, 35:161,                                                                                                                                                                                                                                                                                                                                                                                                  | *07:09, 07:11, 07:17, 07:162, 07:235, 07:237, 08:28, 08:35, 08:37, 08:89, 08:107, 13:04, 13:10, 13:26:01-13:26:02, 13:72, 15:01:01:01-15:01:04, 15:01:06-15:08:02, 15:11:01-15:16:03, 15:18:01-15:21, 15:23-15:29, 15:31-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47:02, 15:49-15:57, 15:60-15:62, 15:64:01-15:72, 15:74-15:76, 15:78:01-15:82, 15:84-15:85, 15:87-15:89, 15:91-15:98, 15:101-15:129, 15:131-15:132, 15:134-15:136, 15:138-15:149N, 15:151-15:161, 15:163-15:167, 15:169-15:176, 15:178-15:187, 15:189-15:195, 15:197-15:207, 15:209N-15:215, 15:217-15:223, 15:225-15:228, 15:231-15:232, 15:234-15:242, 15:244-15:247, 15:249-15:251, 15:254-15:268, 15:270-15:272N, 15:274-15:286, 15:288-15:302N, 15:304N-15:311, 15:314-15:322, 15:325-15:328, 15:330-15:333, 15:335-15:337, 15:340-15:341,                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **36Y**

**Lot-specific information**

|          |               |               |                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|---------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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Lot-specific information

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**Lot-specific information**

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| <b>10<sup>7</sup></b> | 140 bp<br>240 bp | 1070 bp       | *35:83<br>*35:07                                                                                                                                                                                                                                                                                         | <b>C*07:63</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>12<sup>5</sup></b> | 95 bp            | 1070 bp       | *35:10, 35:13, 35:16,<br>35:28, 35:69, 35:80,<br>35:226, 35:270                                                                                                                                                                                                                                          | *13:58, 15:202, 15:239, 18:12, 37:01:01-37:01:05,<br>37:01:07-37:05, 37:07, 37:09-37:27, 37:29-37:54,<br>40:185, 40:209, 44:83, 44:134, 49:03, 52:01:01-01-<br>52:01:21, 52:03-52:15, 52:17, 52:19-52:31:02,<br>52:33-52:44, 53:17:01-53:17:02, 53:28, 53:38,<br>78:05-78:06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>13</b>             | 125 bp<br>170 bp | <b>800 bp</b> | *35:92<br>*35:11:01-35:11:03,<br>35:14:01-35:14:02, 35:21,<br>35:43:01-35:44, 35:58,<br>35:67, 35:79, 35:86,<br>35:96, 35:99, 35:102,<br>35:117-35:118, 35:135,<br>35:167, 35:185, 35:188,<br>35:213, 35:232, 35:265,<br>35:277                                                                          | *07:02:01-07:24, 07:26-07:47, 07:49N-07:50,<br>07:52-07:154, 07:156-07:163, 07:165-07:201N,<br>07:203-07:208, 07:210-07:219, 07:221-07:222,<br>07:224-07:225, 07:227-07:234, 07:236-07:241,<br>08:20, 08:53:01-08:53:02, 08:79, 13:16, 13:20,<br>13:31, 13:48, 13:62, 14:01:01-14:40, 14:42,<br>15:01:01-15:01:04, 15:01:06-15:04:02, 15:06-<br>15:19, 15:21, 15:23-15:30, 15:32:01-15:40, 15:42-<br>15:47:02, 15:49-15:50, 15:53-15:54, 15:56-15:58,<br>15:60-15:74, 15:76-15:82, 15:85, 15:87, 15:89-<br>15:90, 15:92-15:99, 15:101-15:104, 15:106,<br>15:108-15:110, 15:112-15:113, 15:115-15:122,<br>15:125-15:129, 15:131-15:135, 15:137-15:144,                                                                                                                                                                                                                |

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**14<sup>5,10</sup>**

**75 bp**

**800 bp**

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Lot-specific information

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Lot-specific information

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| 19              | 230 bp | 1070 bp | *35:29:01-35:29:02,<br>35:69, 35:74, 35:76,<br>35:136, 35:186, 35:198,<br>35:229, 35:254 | <b>C*06:89, C*07:123, C*07:173, C*07:294,<br/>C*08:113, C*12:113, C*15:09, C*15:19, C*15:27,<br/>C*15:61, C*16:20</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>21</b>             | 260 bp | <b>800 bp</b> | *35:25, 35:124-35:125, 35:142, 35:162, 35:267                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | *18:01:01:01-18:03, 18:05-18:15, 18:17N-18:28, 18:30-18:79, 18:81-18:97, 18:99-18:101, 18:103-18:106, 27:75, 37:01:01-37:21, 37:23-37:40, 37:42N-37:54, 40:149 <sup>?</sup> , 44:130, 44:156, 51:116, 51:176, 51:179, 52:16, 52:27, 57:58, 58:12, 81:01, 81:03 <sup>?</sup> -81:07 <sup>?</sup> , 83:01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>24</b> | 425 bp | 1070 bp       |                                                                                                                                                                                      | *18:54, 18:67, 27:02:01-27:03, 27:05:02-27:05:30,<br>27:07:01-27:07:04, 27:09-27:10, 27:13-27:14,<br>27:16-27:17, 27:19, 27:27-27:30, 27:32, 27:34-<br>27:35, 27:37-27:39, 27:41, 27:43, 27:45-27:48,<br>27:50:01-27:60, 27:62, 27:64N-27:65N, 27:67,<br>27:70-27:78, 27:80-27:85, 27:87-27:88, 27:90:01-<br>27:90:03, 27:92-27:99, 27:101-27:102, 27:104,<br>27:111, 27:116-27:119, 27:121-27:124, 27:126-<br>27:130, 27:132-27:135, 37:01:01-37:04:02,<br>37:06:01-37:09, 37:12-37:13, 37:15-37:28, 37:30N-<br>37:36, 37:38-37:54, 40:13, 40:19 <sup>?</sup> , 40:109 <sup>?</sup> ,<br>40:117 <sup>?</sup> , 40:188 <sup>?</sup> , 40:292 <sup>?</sup> , 44:06, 44:25, 44:50:01,<br>44:95, 47:01:01:01-47:01:02, 47:05-47:09,<br>51:01:01:01-51:01:39, 51:01:41-51:24:05, 51:26-<br>51:46, 51:48-51:53, 51:55-51:77, 51:79-51:185,<br>52:01:01:01-52:19, 52:21-52:44, 53:01:01-<br>53:08:02, 53:10, 53:14-53:30, 53:32-53:35, 53:37,<br>53:39, 57:01:01-57:11, 57:13-57:74, 58:01:01-<br>58:02, 58:04-58:16:02, 58:18-58:29, 58:31N-58:63,<br>58:65-58:69                                                                                                                                                                          |
| <b>25</b> | 135 bp | <b>800 bp</b> | *35:27, 35:56, 35:185,<br>35:203                                                                                                                                                     | *18:49, 18:79, 37:05, 78:06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>26</b> | 210 bp | <b>800 bp</b> | *35:50, 35:84, 35:162,<br>35:197, 35:231, 35:267,<br>35:269                                                                                                                          | 07:08, 07:32, 07:38, 07:207, 07:228, 08:94,<br>18:07:01-18:07:02, 18:29, 18:79, 27:23, 37:21,<br>38:06-38:07, 39:58, 39:83, 40:08, 40:13, 40:68,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|                           |                  |               |                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>27<sup>5,7,8</sup></b> | 110 bp<br>160 bp | 1070 bp       | *35:41, 35:255<br>*35:84, 35:90, 35:150:01-35:150:02, 35:184, 35:201, 35:217                                                                                                                                          | *07:177 <sup>w</sup> , 08:102, 08:122, 13:36, 18:80, 18:102, 27:23, 27:92, 38:16, 38:46, 40:08, 40:25, 40:68, 40:106, 40:166 <sup>w</sup> , 40:232, 44:12, 49:26, 50:15, 51:103, 51:119, 56:36 <sup>w</sup> , 73:01 <sup>w</sup> -73:02 <sup>w</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>28</b>                 | 230 bp           | <b>800 bp</b> | *35:05:01-35:05:03, 35:22, 35:32:01-35:32:02, 35:43:01-35:44, 35:51, 35:58, 35:67, 35:68:02, 35:72, 35:79, 35:89, 35:97, 35:99, 35:102, 35:114, 35:117-35:118, 35:135, 35:151, 35:185, 35:199, 35:232, 35:234, 35:251 | *07:20, 07:24, 07:60, 07:100, 07:131, 07:220, 07:223, 08:21, 08:25, 15:01:01:01-15:01:04, 15:01:06-15:01:13, 15:01:15-15:01:38, 15:03:01-15:03:05, 15:05:01-15:05:02, 15:07:01-15:11:02, 15:11:04-15:11:06, 15:12 <sup>w</sup> , 15:14-15:15, 15:17:01:01-15:18:01, 15:18:03-15:18:06, 15:19 <sup>w</sup> , 15:23-15:24:02, 15:28-15:31, 15:33-15:35, 15:37-15:39:02, 15:43, 15:45-15:46, 15:48, 15:51, 15:53-15:58, 15:60-15:61, 15:63-15:66, 15:68, 15:70-15:76, 15:78:01-15:79N, 15:81-15:82, 15:87, 15:90-15:92, 15:94N, 15:96-15:99, 15:101-15:105, 15:107-15:108, 15:111N, 15:113, 15:115-15:116, 15:118-15:120, 15:122-15:123, 15:125-15:128, 15:131-15:136, 15:140-15:143, 15:145-15:153, 15:156-15:169, 15:171-15:183, 15:185, 15:187, 15:189-15:193, 15:196-15:198, 15:200-15:203, 15:205-15:212, 15:215-15:217, 15:219-15:221, 15:225-15:237, 15:239, 15:242-15:244, 15:246N-15:249, 15:251, 15:253, 15:255-15:264, 15:266-15:269, 15:270 <sup>w</sup> , 15:272N-15:282, 15:284-15:288, 15:290, 15:292, 15:294N-15:296, 15:298 <sup>w</sup> , 15:300, 15:304N <sup>w</sup> , 15:305-15:307, 15:309, 15:311-15:318, 15:320-15:322, 15:324, 15:326, 15:329, 15:331-15:340, 15:343, 18:36, 18:56-18:58, 18:101, 38:30, 39:32, 39:74, 40:05, 40:26, 40:63, 40:71, 40:92, 40:174, 44:02:33, 44:41:01, 44:54, 44:65, 44:82, 44:106, 44:135, 44:158, 44:184, 44:213, 46:01:01-46:02, 46:04-46:05, 46:08-46:10, 46:12-46:17, 46:19-46:20, 46:22-46:28, 46:31, 46:34-46:50, 46:52-46:63, 51:06:01, 51:45, 51:59, 51:62, 51:64, 51:135, 51:148, 53:14, 54:06, 55:08, 55:51, 56:02-56:04, 58:16:01, 58:18, <b>C*02:58, C*03:05, C*03:13:02, C*03:25, C*03:27, C*03:135, C*03:167, C*12:83, C*12:106</b> |
| <b>29<sup>5</sup></b>     | 105 bp           | 1070 bp       | *35:37, 35:235, 35:265, 35:276                                                                                                                                                                                        | *13:04, 13:46, 13:72, 15:04:01-15:04:02, 15:16:01-15:16:03, 15:67, 15:95, 15:137, 15:155, 15:222, 15:254, 15:293, 15:310, 39:06:01-39:06:05, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 40:86, 40:159, 41:30, 45:02, 45:09, 46:32, 49:04:01-49:05, 50:09, 50:33, 51:13:01-51:13:02, 51:37, 51:63, 51:92:01-51:92:02, 51:97, 51:172, 52:14, 52:39, 54:14, 55:13, 55:23, 55:32, 55:58, 55:68, 56:22, 59:03, 73:01-73:02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>30<sup>5,7</sup></b>   | 115 bp           | <b>800 bp</b> | *35:15:01-35:15:02, 35:33, 35:66                                                                                                                                                                                      | *07:02:13, 07:02:35, 07:68:02, 07:151:02, 07:209, 08:40, 13:01:01-13:02:17, 13:07N-13:11, 13:13-13:21, 13:22:02-13:23, 13:25-13:45, 13:47,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>31</b>             | 170 bp | 1070 bp       | *35:25, 35:124-35:125, 35:142, 35:162, 35:267                                  | *07:08, 07:32, 07:38, 07:207, 07:228, 08:01:01-08:03, 08:05, 08:07-08:16, 08:18-08:25, 08:27-08:53:02, 08:55, 08:57-08:60, 08:62-08:64, 08:66-08:84, 08:86N-08:101, 08:103-08:109, 08:111-08:121, 08:124-08:131, 08:133-08:140, 14:42, 15:29, 15:180, 18:07:01-18:07:02, 18:79, 37:21, 38:06-38:07, 39:58, 39:83, 48:06, 48:31, 51:116, 51:176, 51:179, <b>C*06:147</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                       | 210 bp |               | *35:50, 35:84, 35:162, 35:197, 35:231, 35:267, 35:269                          | *07:08, 07:32, 07:38, 07:207, 07:228, 08:94, 18:07:01-18:07:02, 18:29, 18:79, 27:23, 37:21, 38:06-38:07, 39:58, 39:83, 40:08, 40:13, 40:68, 40:162, 40:220, 40:232, 48:06, 48:31, 51:57, 51:103, 51:116, 53:21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>32</b>             | 170 bp | 1070 bp       | *35:29:01-35:29:02, 35:69, 35:76, 35:136, 35:186 <sup>w</sup> , 35:198, 35:229 | *07:02:01-07:02:02, 07:02:04-07:05:03, 07:05:05-07:10, 07:11 <sup>w</sup> , 07:12, 07:13 <sup>w</sup> , 07:14, 07:15 <sup>w</sup> , 07:17-07:26, 07:28-07:35, 07:39-07:49N, 07:51-07:55, 07:56:02, 07:57 <sup>w</sup> , 07:58-07:72, 07:74, 07:76-07:90, 07:92 <sup>w</sup> , 07:93-07:104, 07:106-07:148, 07:150-07:179, 07:181N-07:184, 07:185 <sup>w</sup> , 07:186-07:199, 07:201N-07:206, 07:208-07:216, 07:218, 07:220-07:227, 07:229-07:235, 07:237-07:239, 07:241, 08:01:11, 08:26:02, 08:56:01, 14:01:04, 15:70, 15:76, 15:101, 15:189, 15:236, 18:03, 37:37, 39:01:14, 39:19:02, 42:01:01-42:02, 42:04-42:10, 42:12-42:14, 42:15 <sup>w</sup> , 42:16-42:20, 46:01:01 <sup>w</sup> , 46:01:03 <sup>w</sup> -46:01:18 <sup>w</sup> , 46:03 <sup>w</sup> -46:34 <sup>w</sup> , 46:36 <sup>w</sup> -46:49 <sup>w</sup> , 46:51Q <sup>w</sup> -46:63 <sup>w</sup> , 54:01:02, 55:35, 56:03, 56:06, 78:01:01-78:01:02, 78:03, 78:07-78:08, 81:01-81:07, 83:01, <b>C*01:73<sup>w</sup></b> , <b>C*07:02:30<sup>w</sup></b> , <b>C*08:16:02<sup>w</sup></b> |
| <b>33<sup>7</sup></b> | 205 bp | 1070 bp       | *35:45, 35:71, 35:169                                                          | *07:20, 07:140, 07:153, 15:14, 15:91, 15:131, 15:161, 18:56, 40:132, 40:178, 44:10, 44:14, 44:17, 44:31, 44:43:01-44:43:02, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 44:135, 44:184, 44:213, 45:09, 45:14, 46:17, 51:23, 51:108, 52:15, 53:22, 57:07, 58:07, 82:01-82:03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 310 bp |               | *35:94                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>34</b>             | 185 bp | <b>800 bp</b> | *35:214                                                                        | *15:334, 44:133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 230 bp |               | *35:48                                                                         | *37:39, 37:48, 44:209, 53:07, <b>C*03:90</b> , <b>C*03:103</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>35<sup>6</sup></b> | 240 bp | 1070 bp       | *35:40N                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 365 bp |               | *35:68:01                                                                      | *08:12:03, 08:107, 51:06:02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|-----------------------|----------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>36<sup>5</sup></b> | 110 bp<br>180 bp<br>230 bp | <b>800 bp</b> | *35:79<br>*35:70, 35:220<br>*35:35                                                                                                                                | *40:236<br>*15:265, 37:40, 38:20, 39:42, <b>C*15:51</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>37<sup>5</sup></b> | 85 bp                      | 1070 bp       | *35:60                                                                                                                                                            | *13:01:01-13:03, 13:06-13:09, 13:11-13:12:02,<br>13:14-13:20, 13:22:01-13:23, 13:25, 13:27-13:34,<br>13:36-13:45, 13:47-13:50, 13:52-13:58, 13:60-<br>13:61, 13:63N-13:70, 13:73-13:78, 13:80-13:83,<br>14:37, 15:42, 15:73, 15:86, 15:224, 15:303, 39:17,<br>40:71, 44:10, 44:15, 44:18, 44:140, 45:01:01-<br>45:01:02, 45:04-45:08, 45:10-45:15, 46:11, 46:18,<br>49:01:01-49:03, 49:06-49:14, 49:16-49:17, 49:19N-<br>49:35, 50:01:01-50:02, 50:04-50:08, 50:10-50:13,<br>50:15-50:19, 50:31-50:32, 50:34-50:38, 50:40-<br>50:42, 51:15, 51:62, 51:106, 51:157, 52:25,<br>54:01:01-54:03, 54:05N, 54:07-54:08N, 54:10,<br>54:12-54:13, 54:16-54:34, 55:01:01-55:03, 55:05,<br>55:07, 55:09-55:12, 55:15-55:16, 55:18-55:19,<br>55:21-55:22, 55:24-55:26, 55:29-55:31, 55:33-<br>55:48, 55:50, 55:52-55:57, 55:59-55:67, 55:69-<br>55:70, 56:01:01:01-56:01:03, 56:01:06-56:02,<br>56:04, 56:07-56:08, 56:10, 56:13-56:14, 56:16-<br>56:17, 56:19N, 56:23-56:30, 56:33-56:45,<br>59:01:01:01-59:01:01:02, 59:04-59:08, 82:01-82:03                                                                                                                                                                                                                                                                                                                                                        |
| <b>38</b>             | 300 bp                     | <b>800 bp</b> | *35:02:01-35:02:07,<br>35:81, 35:83, 35:95,<br>35:129N, 35:146, 35:154,<br>35:157, 35:162, 35:172,<br>35:182-35:184, 35:211,<br>35:220, 35:258, 35:270,<br>35:273 | *07:225, 45:12, 50:36, 53:19, 53:36, 58:65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>39<sup>5</sup></b> | 115 bp                     | 1070 bp       | *35:14:01-35:14:02,<br>35:43:01-35:44, 35:62,<br>35:67, 35:79, 35:86,<br>35:102, 35:117, 35:135,<br>35:163, 35:185, 35:213,<br>35:265                             | *07:100, 13:31, 13:41, 15:01:01:01-15:01:04,<br>15:01:06-15:01:16, 15:01:18-15:01:30, 15:01:32-<br>15:01:38, 15:04:01-15:04:02, 15:07:01-15:08:02,<br>15:11:01-15:12, 15:14-15:15, 15:19, 15:24:01-<br>15:24:02, 15:26N-15:28, 15:30, 15:32:01-15:32:02,<br>15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-<br>15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60,<br>15:63, 15:66, 15:68, 15:70-15:71, 15:73, 15:75-<br>15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:92,<br>15:94N, 15:96-15:97, 15:101-15:102, 15:104-<br>15:105, 15:109-15:111N, 15:113, 15:117-15:118,<br>15:120, 15:122, 15:125-15:126, 15:128-15:129,<br>15:135, 15:137, 15:140, 15:142-15:149N, 15:152,<br>15:154, 15:157, 15:159-15:160, 15:163-15:167,<br>15:169, 15:171-15:172, 15:174-15:175, 15:178,<br>15:180-15:184, 15:187, 15:189-15:193, 15:201-<br>15:203, 15:205-15:207, 15:209N, 15:211-15:212,<br>15:215, 15:217, 15:225, 15:227-15:228, 15:231-<br>15:234, 15:236, 15:239, 15:241, 15:244-15:247,<br>15:251, 15:256-15:262N, 15:264, 15:267, 15:269-<br>15:270, 15:272N, 15:276-15:280, 15:284-15:286,<br>15:296, 15:298-15:299, 15:303-15:305, 15:309,<br>15:315-15:318, 15:320-15:321Q, 15:324, 15:326-<br>15:327, 15:331, 15:333-15:334, 15:336, 15:340,<br>15:342-15:343, 18:19, 27:25, 27:115, 39:36,<br>44:146, 46:01:01-46:02, 46:04-46:05, 46:07N,<br>46:09-46:10, 46:12, 46:14-46:17, 46:20, 46:22- |



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| <b>40</b>               | 185 bp                               | 1070 bp       | *35:63, 35:137, 35:147, 35:182, 35:217, 35:278                                                                                                                                                | *07:73, 08:88, 08:102, 15:53, 15:212, 15:336, 18:102, 27:08, 27:12, 27:18, 27:26, 27:33, 27:40, 27:42, 27:44, 27:89, 40:01:01-40:02:03, 40:02:05-40:09, 40:11:01-40:11:02, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:40, 40:42-40:46, 40:48-40:75, 40:77-40:82, 40:84-40:93, 40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:136, 40:138-40:156, 40:158-40:169, 40:171-40:184, 40:186-40:187, 40:189-40:200, 40:202-40:208, 40:210-40:214, 40:216N-40:247, 40:249-40:291N, 40:293-40:298, 41:01:01-41:02:03, 41:02:05-41:04, 41:06-41:11, 41:13-41:25, 41:27-41:35, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01:01-45:15, 47:02, 47:03 <sup>w</sup> , 50:01:01-50:02, 50:04-50:20, 50:31-50:42                                                                                                                                                                                                                                                                        |
| <b>41<sup>5,6</sup></b> | 110 bp                               | 1070 bp       | *35:82, 35:85, 35:135, 35:200                                                                                                                                                                 | *18:33, 39:19:01-39:19:02, 51:22, 52:23, 78:03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>42<sup>5</sup></b>   | 115 bp<br>155 bp<br>190 bp<br>250 bp | <b>800 bp</b> | *35:97<br>*35:53N<br>*35:91<br>*35:65Q                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>43</b>               | 205 bp<br>255 bp                     | 1070 bp       | *35:54<br>*35:89                                                                                                                                                                              | *14:42, 51:140, <b>C*06:147</b><br>*08:135                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>44<sup>5,6</sup></b> | 110 bp<br>145 bp                     | 1070 bp       | *35:78                                                                                                                                                                                        | *13:58, 18:09, 37:10, 44:83, 44:134, 51:54, 51:78:01-51:78:02, 52:20, 53:09, 53:11-53:13, 53:31, 53:36, 53:38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>45</b>               | 300 bp<br>165 bp                     | <b>800 bp</b> | *35:55<br>*35:01:01:01-35:01:27, 35:01:29-35:30, 35:32:01-35:34, 35:36-35:42:02, 35:44-35:45, 35:47-35:56, 35:58-35:59, 35:61:01-35:72, 35:74-35:78, 35:80-35:86, 35:88-35:184, 35:186-35:278 | *15:20, 15:228, 15:305, 48:02:01-48:02:03, 51:01:01:01-51:24:05, 51:26-51:41N, 51:43-51:46, 51:48-51:156, 51:158:01-51:163, 51:165-51:185, 52:01:01:01-52:06:02, 52:08-52:44, 53:01:01-53:39, 56:05:01-56:05:02, 56:21, 56:36, 58:01:01-58:02, 58:04-58:10N, 58:12-58:19, 58:21-58:29, 58:31N-58:69, 67:05, 78:01:01-78:08, 81:03, 83:01 <sup>?</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>46<sup>6,7</sup></b> | 165 bp                               | 1070 bp       | *35:31, 35:35 <sup>w</sup> , 35:43:01, 35:46, 35:57, 35:60, 35:79, 35:87, 35:185, 35:279                                                                                                      | *07:02:01-07:57, 07:59-07:241, 08:01:01-08:05, 08:07-08:140, 13:01:01-13:04, 13:06-13:23, 13:25-13:60, 13:62-13:83, 14:01:01 <sup>w</sup> -14:43 <sup>w</sup> , 15:01:01:01-15:01:04, 15:01:06-15:19, 15:21, 15:23-15:40, 15:42-15:58, 15:60-15:99, 15:101, 15:103-15:129, 15:131-15:227, 15:229-15:283, 15:285-15:304N, 15:306-15:343, 18:01:01:01-18:15, 18:17N-18:106, 27:01-27:21, 27:23-27:135, 37:01:01-37:54, 38:01:01 <sup>w</sup> -38:56 <sup>w</sup> , 39:01:01:01 <sup>w</sup> -39:01:01:03 <sup>w</sup> , 39:01:03 <sup>w</sup> -39:20 <sup>w</sup> , 39:22 <sup>w</sup> -39:42 <sup>w</sup> , 39:43, 39:44 <sup>w</sup> -39:45 <sup>w</sup> , 39:47 <sup>w</sup> -39:100 <sup>w</sup> , 40:01:01-40:06:02, 40:06:03 <sup>w</sup> , 40:06:04-40:06:07, 40:06:09-40:16, 40:18-40:40, 40:42-40:235, 40:237-40:271, 40:273-40:298, 41:01:01-41:35, 42:01:01-42:02, 42:04-42:20, 44:02:01:01-44:65, 44:67-44:117, 44:119-44:214, 45:01:01-45:15, 46:01:01-46:63, |

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| 47              | 160 bp                    | 800 bp  | *35:38, 35:169                                                                                                                                                                                                              | *08:69, 38:30, 41:18, 42:06, 44:117 <sup>w</sup> , 45:14, 55:56, 56:13, 82:01-82:03, <b>C*07:04:01<sup>w</sup>-07:04:10<sup>w</sup></b> , <b>C*07:11<sup>w</sup>-07:12<sup>w</sup></b> , <b>C*07:45<sup>w</sup></b> , <b>C*07:63<sup>w</sup></b> , <b>C*07:101<sup>w</sup></b> , <b>C*07:139<sup>w</sup></b> , <b>C*07:142<sup>w</sup></b> , <b>C*07:181<sup>w</sup></b> , <b>C*07:199:01<sup>w</sup>-07:199:02<sup>w</sup></b> , <b>C*07:272<sup>w</sup></b> , <b>C*07:323<sup>w</sup>-07:324<sup>w</sup></b> , <b>C*07:328<sup>w</sup>-07:329N<sup>w</sup></b> , <b>C*07:336<sup>w</sup></b> , <b>C*07:338<sup>w</sup></b> , <b>C*07:354<sup>w</sup>-07:355<sup>w</sup></b> , <b>C*07:357<sup>w</sup>-07:358<sup>w</sup></b> , <b>C*07:361<sup>w</sup></b> , <b>C*07:364<sup>w</sup>-07:365<sup>w</sup></b> , <b>C*07:378<sup>w</sup></b> , <b>C*07:394<sup>w</sup>-07:395<sup>w</sup></b> , <b>C*07:403<sup>w</sup></b> , <b>C*07:406<sup>w</sup></b> |
| 48              | 390 bp                    | 1070 bp | *35:01:01:01-35:19, 35:21-35:25, 35:27, 35:29:01-35:62, 35:64:01-35:71, 35:74-35:75, 35:77, 35:79-35:81, 35:83-35:84, 35:86-35:94, 35:96-35:134N, 35:136-35:185, 35:187-35:225, 35:227-35:228, 35:230-35:254, 35:256-35:279 | *18:07:01-18:07:02, 18:29, 18:79, 27:23, 37:21, 40:08, 40:13, 40:68 <sup>?</sup> , 40:106 <sup>?</sup> , 40:162 <sup>?</sup> , 40:220 <sup>?</sup> , 40:232 <sup>?</sup> , 44:06, 51:01:01:01-51:06:02, 51:08:01-51:21, 51:23-51:24:05, 51:26-51:46, 51:48-51:127, 51:129-51:185, 52:06:01-52:06:02, 53:01:01-53:08:02, 53:10-53:16, 53:18-53:27, 53:29-53:37, 53:39, 78:01:01-78:02:02, 78:04, 78:07-78:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 49              | 385 bp                    | 800 bp  | *35:01:04, 35:05:01-35:05:03, 35:08:03, 35:30, 35:58, 35:66, 35:68:02, 35:89, 35:97, 35:114, 35:151, 35:232                                                                                                                 | *08:96, 51:56:01, 53:14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 50 <sup>7</sup> | 170 bp                    | 1070 bp | *35:101:01-35:101:02, 35:195, 35:211, 35:216N                                                                                                                                                                               | *51:76, 52:42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 51 <sup>5</sup> | 65 bp<br>155 bp<br>185 bp | 1070 bp | *35:145N<br>*35:100, 35:102<br>*35:214                                                                                                                                                                                      | *15:334, 44:133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 52              | 220 bp<br>250 bp          | 1070 bp | *35:141<br>*35:104                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 53 <sup>7</sup> | 135 bp<br>220 bp          | 1070 bp | *35:103<br>*35:129N                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 54              | 160 bp<br>190 bp          | 1070 bp | *35:106, 35:216N<br>*35:110                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 55              | 300 bp                    | 1070 bp | *35:108:01-35:108:02                                                                                                                                                                                                        | *40:228 <sup>?</sup> , 53:26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 56              | 140 bp<br>225 bp          | 1070 bp | *35:128<br>*35:107, 35:158                                                                                                                                                                                                  | *15:306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 57              | 150 bp<br>185 bp          | 800 bp  | *35:149<br>*35:111                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 58 <sup>5</sup> | 110 bp<br>160 bp          | 1070 bp | *35:139<br>*35:115, 35:260                                                                                                                                                                                                  | *15:326, 44:157, <b>C*05:30</b><br>*08:37, 08:89, 08:107, 15:51, 15:179:01-15:179:02, 15:199, 15:218Q, 18:56, 37:35, 42:09, 44:17, 45:09, 53:22, 57:24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                 | 200 bp                    |         | *35:112                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                       |                            |               |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|----------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>59<sup>5</sup></b> | 75 bp<br>150 bp            | 1070 bp       | *35:116<br>*35:127                                                                                                            | *57:21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>60<sup>5</sup></b> | 90 bp<br>135 bp            | <b>800 bp</b> | *35:121<br>*35:120                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>61<sup>5</sup></b> | 110 bp<br>175 bp<br>265 bp | <b>800 bp</b> | *35:139<br>*35:122<br>*35:123                                                                                                 | *15:326, 44:157, <b>C*05:30</b><br>*15:277-15:278, 56:29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>62</b>             | 140 bp<br>260 bp           | 1070 bp       | *35:144<br>*35:132, 35:246                                                                                                    | <b>C*15:56</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>63<sup>5</sup></b> | 55 bp                      | 1070 bp       | *35:146                                                                                                                       | <b>C*06:21</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>64<sup>5</sup></b> | 90 bp<br>245 bp            | 1070 bp       | *35:130N<br>*35:134N                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>65<sup>7</sup></b> | 220 bp                     | 1070 bp       | *35:148                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>66<sup>5</sup></b> | 90 bp<br>115 bp            | 1070 bp       | *35:133<br>*35:105, 35:113, 35:159                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>67<sup>5</sup></b> | 105 bp<br>200 bp           | 1070 bp       | *35:138<br>*35:191                                                                                                            | *44:26, 47:07<br>*40:227, 49:32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>68<sup>5</sup></b> | 90 bp                      | 1070 bp       | *35:137, 35:140, 35:147,<br>35:182, 35:278                                                                                    | *18:102, 27:52, 44:134, 51:103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>69<sup>5</sup></b> | 95 bp<br>325 bp            | 1070 bp       | *35:143<br>*35:147                                                                                                            | *51:73, 55:26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>70</b>             | 135 bp                     | 1070 bp       | *35:98, 35:117, 35:165N                                                                                                       | *15:197, 15:215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>71<sup>5</sup></b> | 120 bp<br>160 bp           | <b>800 bp</b> | *35:126<br>*35:119                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>72</b>             | 220 bp                     | 1070 bp       | *35:01:34, 35:03:11,<br>35:09:02-35:09:03, 35:18,<br>35:31, 35:64:01, 35:88,<br>35:114, 35:118, 35:205,<br>35:230             | *07:02:01-07:02:13, 07:02:15-07:02:24, 07:02:26-<br>07:02:34, 07:02:36-07:67N, 07:68:03-07:99,<br>07:101-07:213, 07:215-07:234, 07:236, 07:238-<br>07:241, 08:01:02, 08:01:13, 08:20, 08:53:02,<br>08:79, 13:21, 13:71, 15:01:35, 15:02:03, 15:03:02,<br>15:10:03, 15:33, 15:47:02, 15:78:02, 15:107,<br>15:116, 15:141, 15:150, 15:188, 15:248, 18:21,<br>27:01-27:05:26, 27:05:28-27:21, 27:23-27:75,<br>27:77-27:89, 27:90:02-27:98, 27:100-27:123,<br>27:125-27:126, 27:128-27:135, 37:02, 37:07,<br>37:09, 38:22, 40:01:01-40:01:13, 40:01:15-<br>40:02:19, 40:02:22-40:06:04, 40:06:06-40:13,<br>40:14:03-40:16, 40:18-40:25, 40:27:01-40:27:02,<br>40:29-40:35:01, 40:36-40:40, 40:42-40:70:02,<br>40:72:02-40:76, 40:78-40:81, 40:83-40:86,<br>40:87:02-40:94, 40:96-40:114:01, 40:115-40:120,<br>40:122-40:135, 40:137-40:157, 40:159-40:183,<br>40:185-40:236, 40:238-40:254, 40:256N-40:298,<br>41:08, 44:03:14, 44:31, 44:150, 44:169, 44:182,<br>46:01:16, 46:06, 47:01:01-47:09, 48:01:01-<br>48:01:06, 48:03:01-48:11, 48:13, 48:15-48:24,<br>48:26-48:36, 51:01:09, 51:01:21, 51:01:25, 51:10,<br>51:24:02-51:24:04, 51:81, 54:11, 55:04, 55:08,<br>55:49, 56:20:02, 57:01:07, 57:13, 58:27, 67:03,<br>81:01-81:07 |
| <b>73<sup>6</sup></b> | 205 bp                     | <b>800 bp</b> | *35:02:01-35:02:07,<br>35:81, 35:83, 35:95,<br>35:129N, 35:146, 35:154,<br>35:162, 35:172, 35:182-<br>35:184, 35:211, 35:220, | *45:12, 50:36, 53:19, 53:36, 58:65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                        |                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |
|------------------------|----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        |                            |         | 35:258, 35:270, 35:273                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                   |
| <b>74</b>              | 160 bp                     | 1070 bp | *35:173N                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                   |
| <b>75<sup>5</sup></b>  | 90 bp<br>135 bp            | 1070 bp | *35:176<br>*35:27, 35:56, 35:185,<br>35:203                                                                                                                                                                                                                                                                                                                                                                                                                       | *18:49, 18:79, 37:05, 78:06                                                                                                                                                                                                                                                                                                       |
| <b>76<sup>6</sup></b>  | 220 bp<br>375 bp           | 1070 bp | *35:193<br>*35:161                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>C*08:89N</b><br>*15:198                                                                                                                                                                                                                                                                                                        |
| <b>77<sup>7</sup></b>  | 135 bp<br>180 bp<br>385 bp | 1070 bp | *35:227<br>*35:245<br>*35:36                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                   |
| <b>78</b>              | 310 bp                     | 1070 bp | *35:94                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                   |
| <b>79<sup>5</sup></b>  | 100 bp                     | 1070 bp | *35:131                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                   |
| <b>80<sup>5</sup></b>  | 110 bp                     | 1070 bp | *35:194, 35:228                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |
| <b>81<sup>5</sup></b>  | 80 bp<br>120 bp            | 1070 bp | *35:219<br>*35:228                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                   |
| <b>82</b>              | 200 bp                     | 1070 bp | *35:225                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                   |
| <b>83<sup>5</sup></b>  | 95 bp<br>180 bp            | 1070 bp | *35:250<br>*35:245                                                                                                                                                                                                                                                                                                                                                                                                                                                | *51:165                                                                                                                                                                                                                                                                                                                           |
| <b>84</b>              | 130 bp                     | 1070 bp | *35:52, 35:92                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                   |
| <b>85</b>              | 415 bp                     | 1070 bp | *35:42:01, 35:42:02 <sup>?</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                  | *18:07:01-18:07:02, 18:29, 18:79, 27:23, 37:21,<br>40:08, 40:13, 40:68 <sup>?</sup> , 40:106 <sup>?</sup> , 40:162 <sup>?</sup> , 40:220 <sup>?</sup> ,<br>40:232 <sup>?</sup> , 44:06, 59:01:01:01-59:07, <b>C*06:147</b>                                                                                                        |
| <b>86<sup>8</sup></b>  | 500 bp                     | 1070 bp | *35:08:05, 35:42:02                                                                                                                                                                                                                                                                                                                                                                                                                                               | *51:04, 51:56:02, 51:139, 53:06                                                                                                                                                                                                                                                                                                   |
| <b>87<sup>5</sup></b>  | 125 bp                     | 1070 bp | *35:241                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                   |
| <b>88</b>              | 130 bp                     |         | *35:01:01:01-35:03:11,<br>35:03:13-35:03:17,<br>35:03:19-35:18, 35:20:01-<br>35:24:02, 35:27-35:28,<br>35:30-35:45, 35:48,<br>35:50-35:62, 35:64:01-<br>35:68:02, 35:70-35:72,<br>35:74-35:75, 35:77-<br>35:135, 35:137-35:152,<br>35:155-35:185, 35:187-<br>35:197, 35:199-35:202,<br>35:204-35:206, 35:208-<br>35:209, 35:211-35:216N,<br>35:218-35:228, 35:230-<br>35:242, 35:244-35:248,<br>35:250-35:253, 35:255-<br>35:270, 35:272-35:273,<br>35:275-35:279 | *08:133, 15:202, 15:239, 15:308, 18:01:01:01-<br>18:01:01:02, 18:01:03-18:02, 18:04-18:08, 18:10-<br>18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:53,<br>18:55-18:65, 18:67-18:93, 18:95-18:106, 37:01:02,<br>37:11, 37:14, 37:29, 40:185, 40:209, 51:185,<br>52:09, 53:05, 53:16, 53:33, 58:64, 78:02:01-<br>78:02:02, 78:04-78:06 |
| <b>89</b>              | 230 bp                     | 1070 bp | *35:236, 35:259                                                                                                                                                                                                                                                                                                                                                                                                                                                   | *44:29, 44:89, <b>C*03:215</b>                                                                                                                                                                                                                                                                                                    |
| <b>90<sup>5</sup></b>  | 105 bp                     | 1070 bp | *35:46-35:47, 35:154,<br>35:217, 35:257, 35:278                                                                                                                                                                                                                                                                                                                                                                                                                   | *13:36, 18:48, 38:12, 40:08, 40:25, 40:68, 40:106,<br>40:166 <sup>w</sup> , 40:232, 44:12, 50:15, 51:74, 53:30                                                                                                                                                                                                                    |
| <b>91<sup>11</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 HLA-B\*35 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

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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.

<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>Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B\*35 alleles will be amplified by primer mixes 1 to 9, 11 to 41, 43 to 51, 55, 56, 58, 59, 61, 67 to 70, 72, 73, 75, 76, 83, 85, 86 and 88 to 90. In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 3, 10, 11, 14, 15, 18, 20, 22, 23, 28, 30 to 32, 34, 36, 37, 39, 43, 47, 58, 61 to 63, 76, 85 and 89.

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

<sup>6</sup>Primer mixes 35, 41, 44, 46, 73 and 76 may have a tendency to giving rise to primer oligomer formation.

<sup>7</sup>Primer mixes 3, 6, 7, 10, 27, 30, 33, 46, 50, 53, 65 and 77 have tendencies of unspecific amplifications.

<sup>8</sup>Primer mixes 8, 17, 20, 27 and 86 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*35 primer mixes.

<sup>9</sup>Primer mix 7 may faintly amplify the B\*44 alleles.

<sup>10</sup>Primer mix 14 may faintly amplify the B\*37 alleles.

<sup>11</sup>Primer mix 91 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

'w', might be weakly amplified.

'?', nucleotide sequence of the primer matching region not known.

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## PRIMER SPECIFICATION

| Well No.                                 | 1                | 2                | 3                | 4                              | 5                              | 6                | 7                              | 8                              | 9                | 10               | 11               | 12               |
|------------------------------------------|------------------|------------------|------------------|--------------------------------|--------------------------------|------------------|--------------------------------|--------------------------------|------------------|------------------|------------------|------------------|
| Length of spec.                          | 95               | 150              | 115              | 280                            | 290                            | 85               | 160                            | 280                            | 140              | 140              | 225              | 95               |
| PCR product                              |                  |                  |                  |                                |                                |                  | 330                            |                                |                  | 240              |                  | 125              |
| Length of int. pos. control <sup>1</sup> | 800              | 1070             | 1070             | 1070                           | 800                            | 1070             | 800                            | 1070                           | 800              | 1070             | 800              | 1070             |
| 5'-primer(s) <sup>2</sup>                | 206<br>5'-gAC 3' | 355<br>5'-TCA 3' | 412<br>5'-ATg 3' | 419<br>5'-gTC 3'               | 397<br>5'-gCT 3'               | 419<br>5'-gTA 3' | 142<br>5'-TCA 3'               | 419<br>5'-gTT 3'               | 363<br>5'-AgC 3' | 49<br>5'-CAG 3'  | 355<br>5'-TCA 3' | 206<br>5'-gAC 3' |
|                                          |                  |                  |                  |                                | 412<br>5'-ATA 3'               |                  | 368<br>5'-gTT 3'               | 419<br>5'-gTT 3'               | 363<br>5'-AgC 3' | 388<br>5'-CCT 3' |                  |                  |
| 3'-primer(s) <sup>3</sup>                | 259<br>5'-gTT 3' | 463<br>5'-gCT 3' | 486<br>5'-gCg 3' | 3 <sup>rd</sup> I<br>5'-TAT 3' | 3 <sup>rd</sup> I<br>5'-TAT 3' | 463<br>5'-gCT 3' | 259<br>5'-gTT 3'               | 3 <sup>rd</sup> I<br>5'-TAT 3' | 463<br>5'-gCT 3' | 119<br>5'-ggA 3' | 538<br>5'-CCg 3' | 259<br>5'-CTC 3' |
|                                          | 259<br>5'-gTT 3' |                  | 486<br>5'-gCT 3' |                                |                                |                  | 3 <sup>rd</sup> I<br>5'-TAT 3' |                                |                  | 486<br>5'-gCg 3' |                  | 289<br>5'-AgC 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.                          | 170                            | 75               | 135              | 95               | 180              | 105              | 230              | 200              | 260              | 90               | 190              | 425              |
| PCR product                              |                                |                  |                  | 190              |                  | 180              |                  |                  |                  | 270              |                  |                  |
| Length of int. pos. control <sup>1</sup> | 800                            | 800              | 1070             | 1070             | 800              | 800              | 1070             | 1070             | 800              | 1070             | 800              | 1070             |
| 5'-primer(s) <sup>2</sup>                | 527<br>5'-TgA 3'               | 355<br>5'-TCA 3' | 463<br>5'-TgA 3' | 112<br>5'-CCg 3' | 106<br>5'-CCA 3' | 206<br>5'-gAC 3' | 106<br>5'-CCA 3' | 141<br>5'-ATT 3' | 49<br>5'-CAG 3'  | 209<br>5'-ggC 3' | 379<br>5'-ACC 3' | 49<br>5'-CAG 3'  |
|                                          |                                |                  |                  | 206<br>5'-gAA 3' |                  | 419<br>5'-gTC 3' |                  | 412<br>5'-ATA 3' |                  | 355<br>5'-TCA 3' | 379<br>5'-ATC 3' |                  |
| 3'-primer(s) <sup>3</sup>                | 3 <sup>rd</sup> I<br>5'-TAT 3' | 387<br>5'-TCC 3' | 559<br>5'-CTC 3' | 259<br>5'-gTT 3' | 246<br>5'-TAT 3' | 272<br>5'-Tgg 3' | 292<br>5'-gTC 3' | 309<br>5'-ATC 3' | 142<br>5'-TgA 3' | 259<br>5'-gTT 3' | 527<br>5'-CCA 3' | 301<br>5'-gTC 3' |
|                                          |                                |                  |                  |                  |                  | 559<br>5'-CgT 3' | 299<br>5'-TCA 3' | 559<br>5'-CTC 3' |                  | 583<br>5'-gTg 3' | 527<br>5'-CCA 3' | 309<br>5'-ATC 3' |
| Well No.                                 | 13                             | 14               | 15               | 16               | 17               | 18               | 19               | 20               | 21               | 22               | 23               | 24               |

| Well No.                                 | 25                             | 26               | 27               | 28               | 29               | 30               | 31               | 32               | 33               | 34               | 35               | 36               |
|------------------------------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Length of spec.                          | 135                            | 210              | 110              | 230              | 105              | 115              | 170              | 170              | 205              | 185              | 240              | 110              |
| PCR product                              | 220                            | 370              | 160              |                  |                  | 325              | 210              |                  | 310              | 230              | 365              | 180              |
|                                          |                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 230              |
| Length of int. pos. control <sup>1</sup> | 800                            | 800              | 1070             | 800              | 1070             | 800              | 1070             | 1070             | 1070             | 800              | 1070             | 800              |
| 5'-primer(s) <sup>2</sup>                | 206<br>5'-gAC 3'               | 72<br>5'-gCT 3'  | 142<br>5'-TCA 3' | 369<br>5'-TAC 3' | 357<br>5'-Tgg 3' | 49<br>5'-CAG 3'  | 103<br>5'-CCT 3' | 165<br>5'-ACC 3' | 409<br>5'-ggC 3' | 368<br>5'-gTC 3' | 272<br>5'-CTT 3' | 355<br>5'-TCA 3' |
|                                          | 477<br>5'-gCC 3'               | 103<br>5'-CCT 3' | 355<br>5'-TCA 3' |                  |                  | 486<br>5'-ACC 3' | 103<br>5'-CCT 3' |                  | 742<br>5'-ACA 3' | 416<br>5'-CCg 3' | 808<br>5'-CgC 3' | 635<br>5'-ACg 3' |
|                                          |                                | 103<br>5'-CCT 3' |                  |                  |                  |                  | 142<br>5'-TCT 3' |                  |                  |                  |                  | 641<br>5'-gAT 3' |
|                                          |                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 704<br>5'-TgA 3' |
| 3'-primer(s) <sup>3</sup>                | 302<br>5'-ggT 3'               | 272<br>5'-TgA 3' | 259<br>5'-gTT 3' | 559<br>5'-CAG 3' | 419<br>5'-Cgg 3' | 204<br>5'-TCT 3' | 272<br>5'-TgA 3' | 292<br>5'-gTC 3' | 572<br>5'-gCg 3' | 559<br>5'-CAG 3' | 353<br>5'-ggg 3' | 544<br>5'-ggT 3' |
|                                          | 3 <sup>rd</sup> I<br>5'-TAT 3' |                  | 425<br>5'-CgC 3' |                  | 419<br>5'-CgA 3' | 559<br>5'-CTC 3' |                  |                  | 916<br>5'-gAT 3' |                  | 916<br>5'-gAT 3' | 774<br>5'-ggT 3' |
| Well No.                                 | 25                             | 26               | 27               | 28               | 29               | 30               | 31               | 32               | 33               | 34               | 35               | 36               |



101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **36Y**

Lot-specific information

| Well No.                                    | 37               | 38                             | 39               | 40               | 41               | 42               | 43               | 44               | 45               | 46               | 47               | 48               |
|---------------------------------------------|------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Length of spec.<br>PCR product              | 85               | 300                            | 115              | 185              | 110              | 115              | 205              | 110              | 165              | 165              | 160              | 390              |
|                                             |                  |                                |                  |                  |                  | 155              | 255              | 145              |                  |                  |                  |                  |
|                                             |                  |                                |                  |                  |                  | 190              |                  | 300              |                  |                  |                  |                  |
|                                             |                  |                                |                  |                  |                  | 250              |                  |                  |                  |                  |                  |                  |
| Length of int.<br>pos. control <sup>1</sup> | 1070             | 800                            | 1070             | 1070             | 1070             | 800              | 1070             | 1070             | 800              | 1070             | 800              | 1070             |
| 5'-primer(s) <sup>2</sup>                   | 420<br>5'-TTA 3' | 397<br>5'-gCT 3'               | 463<br>5'-TgA 3' | 167<br>5'-gCT 3' | 206<br>5'-gAC 3' | 106<br>5'-CCA 3' | 106<br>5'-CCg 3' | 206<br>5'-gAC 3' | 652<br>5'-CCg 3' | 652<br>5'-CCA 3' | 419<br>5'-gTT 3' | 49<br>5'-CAg 3'  |
|                                             |                  |                                |                  |                  |                  | 355<br>5'-TCA 3' | 363<br>5'-AgC 3' | 355<br>5'-TCA 3' |                  |                  |                  |                  |
|                                             |                  |                                |                  |                  |                  |                  | 363<br>5'-AgC 3' |                  |                  |                  |                  |                  |
| 3'-primer(s) <sup>3</sup>                   | 463<br>5'-gCT 3' | 3 <sup>rd</sup> I<br>5'-TAT 3' | 538<br>5'-CCA 3' | 311<br>5'-ggT 3' | 272<br>5'-TgC 3' | 181<br>5'-gTg 3' | 272<br>5'-TgA 3' | 277<br>5'-ggC 3' | 774<br>5'-ggT 3' | 774<br>5'-ggT 3' | 538<br>5'-gTC 3' | 272<br>5'-TgA 3' |
|                                             |                  |                                |                  |                  | 280<br>5'-gTC 3' | 471<br>5'-TC 3'  | 577<br>5'-gCA 3' | 309<br>5'-gTg 3' |                  |                  |                  |                  |
|                                             |                  |                                |                  |                  |                  | 505<br>5'-gCT 3' |                  | 614<br>5'-CgT 3' |                  |                  |                  |                  |
|                                             |                  |                                |                  |                  |                  | 564<br>5'-ACC 3' |                  |                  |                  |                  |                  |                  |
| Well No.                                    | 37               | 38                             | 39               | 40               | 41               | 42               | 43               | 44               | 45               | 46               | 47               | 48               |

| Well No.                                    | 49               | 50               | 51               | 52               | 53               | 54               | 55               | 56               | 57               | 58               | 59               | 60               |
|---------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Length of spec.<br>PCR product              | 385              | 170              | 65               | 220              | 135              | 160              | 300              | 140              | 150              | 110              | 75               | 90               |
|                                             |                  |                  | 155              | 250              | 220              | 190              |                  | 225              | 185              | 160              | 150              | 135              |
|                                             |                  |                  | 185              |                  |                  |                  |                  |                  |                  | 200              |                  |                  |
| Length of int.<br>pos. control <sup>1</sup> | 800              | 1070             | 1070             | 1070             | 1070             | 1070             | 1070             | 1070             | 800              | 1070             | 1070             | 800              |
| 5'-primer(s) <sup>2</sup>                   | 272<br>5'-CTT 3' | 206<br>5'-gAC 3' | 190<br>5'-ACT 3' | 355<br>5'-TCA 3' | 106<br>5'-CCA 3' | 206<br>5'-gAC 3' | 49<br>5'-CAg 3'  | 115<br>5'-ggA 3' | 106<br>5'-CCA 3' | 106<br>5'-CCA 3' | 352<br>5'-ACg 3' | 367<br>5'-TgC 3' |
|                                             |                  |                  | 199<br>5'-gTg 3' |                  |                  | 355<br>5'-TCA 3' |                  | 136<br>5'-gCC 3' |                  | 419<br>5'-gTC 3' | 431<br>5'-CgA 3' | 412<br>5'-ATC 3' |
|                                             |                  |                  | 416<br>5'-CCg 3' |                  |                  |                  |                  | 211<br>5'-AgT 3' |                  |                  |                  |                  |
|                                             |                  |                  | 533<br>5'-ggg 3' |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3'-primer(s) <sup>3</sup>                   | 369<br>5'-CCg 3' | 331<br>5'-CTA 3' | 311<br>5'-ggT 3' | 532<br>5'-CTg 3' | 200<br>5'-TCA 3' | 325<br>5'-gTg 3' | 178<br>5'-gAg 3' | 311<br>5'-ggT 3' | 214<br>5'-CCC 3' | 176<br>5'-ACT 3' | 463<br>5'-gCT 3' | 463<br>5'-gCT 3' |
|                                             | 369<br>5'-CCg 3' | 343<br>5'-T 3'   | 559<br>5'-CAg 3' | 565<br>5'-CAg 3' | 286<br>5'-CTA 3' | 331<br>5'-CTA 3' | 180<br>5'-TCC 3' |                  | 250<br>5'-CCC 3' | 267<br>5'-ATA 3' |                  |                  |
|                                             |                  | 343<br>5'-g 3'   |                  |                  |                  | 506<br>5'-TgT 3' |                  |                  |                  | 538<br>5'-gTC 3' |                  |                  |
| Well No.                                    | 49               | 50               | 51               | 52               | 53               | 54               | 55               | 56               | 57               | 58               | 59               | 60               |

101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **36Y**

Lot-specific information

| Well No.                                 | 61        | 62        | 63        | 64        | 65        | 66        | 67        | 68        | 69        | 70        | 71        | 72                |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|
| Length of spec.                          | 110       | 140       | 55        | 90        | 220       | 90        | 105       | 90        | 95        | 135       | 120       | 220               |
| PCR product                              | 175       | 260       |           | 245       |           | 115       | 200       |           | 325       |           | 160       |                   |
|                                          | 265       |           |           |           |           |           |           |           |           |           |           |                   |
| Length of int. pos. control <sup>1</sup> | 800       | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 800       | 1070              |
| 5'-primer(s) <sup>2</sup>                | 106       | 355       | 397       | 106       | 134       | 387       | 106       | 167       | 106       | 363       | 344       | 477               |
|                                          | 5'-CCA 3' | 5'-TCA 3' | 5'-gCT 3' | 5'-CCA 3' | 5'-CCT 3' | 5'-TCC 3' | 5'-CCA 3' | 5'-gCT 3' | 5'-CCA 3' | 5'-AgT 3' | 5'-A 3'   | 5'-gCC 3'         |
|                                          |           |           |           | 804       |           | 413       |           | 463       | 727       | 365       | 383       |                   |
|                                          |           |           |           | 5'-TgA 3' |           | 5'-TgT 3' |           | 5'-TgA 3' | 5'-Agg 3' | 5'-gAA 3' | 5'-ggC 3' |                   |
|                                          |           |           |           |           |           |           |           |           |           | 375       |           |                   |
|                                          |           |           |           |           |           |           |           |           |           | 5'-TgA 3' |           |                   |
| 3'-primer(s) <sup>3</sup>                | 176       | 456       | 412       | 153       | 311       | 463       | 171       | 206       | 160       | 463       | 463       | 3 <sup>rd</sup> I |
|                                          | 5'-ACT 3' | 5'-TCg 3' | 5'-gTC 3' | 5'-ACT 3' | 5'-ggT 3' | 5'-gCT 3' | 5'-ACC 3' | 5'-CCg 3' | 5'-gTT 3' | 5'-gCT 3' | 5'-gCT 3' | 5'-TAT 3'         |
|                                          | 239       | 575       |           | 916       |           |           | 265       | 524       | 916       |           |           |                   |
|                                          | 5'-gCT 3' | 5'-ggg 3' |           | 5'-gAT 3' |           |           | 5'-CTC 3' | 5'-CAT 3' | 5'-gAT 3' |           |           |                   |
|                                          | 332       |           |           |           |           |           |           |           |           |           |           |                   |
|                                          | 5'-TCC 3' |           |           |           |           |           |           |           |           |           |           |                   |
| Well No.                                 | 61        | 62        | 63        | 64        | 65        | 66        | 67        | 68        | 69        | 70        | 71        | 72                |

| Well No.                                 | 73        | 74        | 75        | 76        | 77        | 78        | 79        | 80        | 81        | 82        | 83        | 84        |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec.                          | 205       | 160       | 90        | 220       | 135       | 310       | 100       | 110       | 80        | 200       | 95        | 130       |
| PCR product                              |           |           | 135       | 375       | 180       |           |           |           | 120       |           | 180       |           |
|                                          |           |           |           |           | 385       |           |           |           |           |           |           |           |
| Length of int. pos. control <sup>1</sup> | 800       | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      |
| 5'-primer(s) <sup>2</sup>                | 397       | 106       | 206       | 134       | 320       | 742       | 406       | 106       | 106       | 133       | 652       | 206       |
|                                          | 5'-gCT 3' | 5'-CCA 3' | 5'-gAC 3' | 5'-CCC 3' | 5'-CgA 3' | 5'-ACA 3' | 5'-gCC 3' | 5'-CCA 3' | 5'-CCA 3' | 5'-CCT 3' | 5'-CCg 3' | 5'-gAC 3' |
|                                          |           |           |           | 673       | 652       |           |           |           |           |           |           |           |
|                                          |           |           |           | 5'-CCA 3' | 5'-CCg 3' |           |           |           |           |           |           |           |
| 3'-primer(s) <sup>3</sup>                | 559       | 224       | 253       | 311       | 419       | 916       | 463       | 170       | 146       | 292       | 704       | 289       |
|                                          | 5'-CAg 3' | 5'-TCT 3' | 5'-gTT 3' | 5'-ggT 3' | 5'-CgA 3' | 5'-gAT 3' | 5'-gCT 3' | 5'-Cgg 3' | 5'-CCT 3' | 5'-gTA 3' | 5'-CCA 3' | 5'-AgC 3' |
|                                          |           |           | 302       | 916       | 746       |           |           | 187       | 187       |           | 791       | 301       |
|                                          |           |           | 5'-ggT 3' | 5'-gAT 3' | 5'-gAA 3' |           |           | 5'-gTg 3' | 5'-gTg 3' |           | 5'-AgA 3' | 5'-gCA 3' |
|                                          |           |           |           |           | 791       |           |           |           |           |           |           |           |
|                                          |           |           |           | 5'-AgA 3' |           |           |           |           |           |           |           |           |
| Well No.                                 | 73        | 74        | 75        | 76        | 77        | 78        | 79        | 80        | 81        | 82        | 83        | 84        |

| Well No.                                 | 85        | 86        | 87        | 88        | 89        | 90        |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec.                          | 415       | 500       | 125       | 130       | 230       | 105       |
| PCR product                              |           |           |           |           |           |           |
| Length of int. pos. control <sup>1</sup> | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      |
| 5'-primer(s) <sup>2</sup>                | 25        | 141       | 691       | 201       | 355       | 193       |
|                                          | 5'-CCC 3' | 5'-ATT 3' | 5'-TgT 3' | 5'-CCA 3' | 5'-TCA 3' | 5'-CCA 3' |
|                                          |           |           |           | 206       |           |           |
|                                          |           |           |           | 5'-gAC 3' |           |           |
| 3'-primer(s) <sup>3</sup>                | 272       | 353       | 774       | 292       | 544       | 259       |
|                                          | 5'-TgA 3' | 5'-TgA 3' | 5'-ggT 3' | 5'-gTA 3' | 5'-ggT 3' | 5'-gTT 3' |
| Well No.                                 | 85        | 86        | 87        | 88        | 89        | 90        |

101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **36Y**

#### Lot-specific information

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

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

<sup>3</sup>The nucleotide position matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

**101.522-24/03– including *Taq* pol., IFU-01**  
**101.522-24u/03u – without *Taq* pol., IFU-02**

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**Lot No.: 36Y**

### Lot-specific information

[illegible]

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### Lot-specific information

| CELL LINE VALIDATION SHEET          |      |            |        |  |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------------------------------|------|------------|--------|--|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---|---|---|---|---|---|---|---|---|---|--|
| HLA-B*35 SSP subtyping <sup>2</sup> |      |            |        |  |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |   |   |   |   |   |   |  |
|                                     |      |            |        |  | Well <sup>3</sup> |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |   |   |   |   |   |   |  |
|                                     |      |            |        |  | 17                | 18        | 19        | 20        | 21        | 22        | 23        | 24        | 25        | 26        | 27        | 28        | 29        | 30        | 31        | 32        |   |   |   |   |   |   |   |   |   |   |   |  |
|                                     |      |            |        |  | 201551717         | 201205818 | 201320619 | 201205820 | 201205821 | 201205822 | 201205823 | 201205824 | 201205825 | 201205826 | 201205827 | 201205828 | 201205829 | 201205830 | 201205831 | 201205832 |   |   |   |   |   |   |   |   |   |   |   |  |
| Prod. No.:                          |      |            |        |  |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |   |   |   |   |   |   |  |
| HWC cell line <sup>1</sup>          |      |            | B*     |  |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |   |   |   |   |   |   |  |
| 1                                   | 9001 | SA         | *07:02 |  | -                 | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | + |  |
| 2                                   | 9280 | LK707      | *52:01 |  | *73:01            | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | -         | W         | -         | +         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 3                                   | 9011 | E4181324   | *52:01 |  |                   | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 4                                   | 9275 | GU373      | *15:10 |  | *53:01            | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 5                                   | 9009 | KAS011     | *37:01 |  |                   | -         | +         | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 6                                   | 9353 | SM         | *39:01 |  | *51:01            | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 7                                   | 9020 | QBL        | *18:01 |  |                   | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 8                                   | 9025 | DEU        | *35:01 |  |                   | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 9                                   | 9026 | YAR        | *38:01 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 10                                  | 9107 | LKT3       | *54:01 |  |                   | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 11                                  | 9051 | PITOUT     | *44:03 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 12                                  | 9052 | DBB        | *57:01 |  |                   | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 13                                  | 9004 | JESTHOM    | *27:05 |  |                   | -         | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | +         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 14                                  | 9071 | OLGA       | *15:01 |  | *15:20            | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 15                                  | 9075 | DKB        | *40:01 |  |                   | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 16                                  | 9037 | SWEIG007   | *40:02 |  |                   | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 17                                  | 9282 | CTM3953540 | *08:01 |  | *55:01            | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | + | - | - |  |
| 18                                  | 9257 | 32367      | *14:01 |  | *56:01            | -         | -         | +         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 19                                  | 9038 | BM16       | *18:01 |  |                   | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 20                                  | 9059 | SLE005     | *40:01 |  |                   | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 21                                  | 9064 | AMALA      | *15:01 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 22                                  | 9056 | KOSE       | *35:03 |  |                   | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 23                                  | 9124 | IHL        | *40:02 |  | *56:02            | -         | -         | +         | +         | -         | -         | +         | -         | +         | -         | -         | +         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 24                                  | 9035 | JBUSH      | *38:01 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 25                                  | 9049 | IBW9       | *14:02 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 26                                  | 9285 | WT49       | *58:01 |  |                   | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 27                                  | 9191 | CH1007     | *07:05 |  | *51:01            | -         | -         | -         | +         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | + | - |  |
| 28                                  | 9320 | BEL5GB     | *44:02 |  | *44:03            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 29                                  | 9050 | MOU        | *44:03 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 30                                  | 9021 | RSH        | *42:01 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | + | - |  |
| 31                                  | 9019 | DUCAF      | *18:01 |  |                   | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 32                                  | 9297 | HAG        | *41:02 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 33                                  | 9098 | MT14B      | *40:01 |  |                   | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 34                                  | 9104 | DHIF       | *38:01 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 35                                  | 9302 | SSTO       | *44:02 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 36                                  | 9024 | KT17       | *15:01 |  | *35:01            | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 37                                  | 9065 | HHKB       | *07:02 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | + | - |  |
| 38                                  | 9099 | LZL        | *15:01 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 39                                  | 9315 | CML        | *08:01 |  | *27:05            | -         | -         | +         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | + | - | - | - |  |
| 40                                  | 9134 | WHONP199   | *13:02 |  | *46:01            | -         | -         | +         | +         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | +         | - | + | - | + | - | + | - | + | - | + | - |  |
| 41                                  | 9055 | H0301      | *14:02 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 42                                  | 9066 | TAB089     | *46:01 |  |                   | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - | - | - | - | - | W | - |  |
| 43                                  | 9076 | T7526      | *46:01 |  |                   | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | - | - | - | - | - | - | - | - | - | W | - |  |
| 44                                  | 9057 | TEM        | *38:01 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 45                                  | 9239 | SHJO       | *42:01 |  | *50:01            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | + | - | - |  |
| 46                                  | 9013 | SCHU       | *07:02 |  |                   | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | + | - |  |
| 47                                  | 9045 | TUBO       | *51:01 |  |                   | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |
| 48                                  | 9303 | TER-ND     | *35:01 |  | *44:03            | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - | - | - | - | - | - | - |  |

101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **36Y**

Lot-specific information

| CELL LINE VALIDATION SHEET          |                             |            |        |        |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|-------------------------------------|-----------------------------|------------|--------|--------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*35 SSP subtyping <sup>2</sup> |                             |            |        |        |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                     |                             |            |        |        | Well <sup>3</sup> |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                     |                             |            |        |        | Prod. No.:        | 33        | 34        | 35        | 36        | 37        | 38        | 39        | 40        | 41        | 42        | 43        | 44        | 45        | 46        | 47        | 48        |
|                                     |                             |            |        |        | Prod. No.:        | 201551733 | 201437934 | 201205835 | 201320636 | 201205837 | 201205838 | 201205839 | 201205840 | 201437941 | 201205842 | 201205843 | 201205844 | 201205845 | 201320646 | 201205847 | 201205848 |
|                                     | IHCW cell line <sup>1</sup> |            | B*     |        |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 1                                   | 9001                        | SA         | *07:02 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 2                                   | 9280                        | LK707      | *52:01 | *73:01 |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 3                                   | 9011                        | E4181324   | *52:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 4                                   | 9275                        | GU373      | *15:10 | *53:01 |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | -         | +         |
| 5                                   | 9009                        | KAS011     | *37:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 6                                   | 9353                        | SM         | *39:01 | *51:01 |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | -         | +         |
| 7                                   | 9020                        | QBL        | *18:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 8                                   | 9025                        | DEU        | *35:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         |
| 9                                   | 9026                        | YAR        | *38:01 |        |                   | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 10                                  | 9107                        | LKT3       | *54:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 11                                  | 9051                        | PITOUT     | *44:03 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 12                                  | 9052                        | DBB        | *57:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 13                                  | 9004                        | JESTHOM    | *27:05 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 14                                  | 9071                        | OLGA       | *15:01 | *15:20 |                   | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | +         | -         | -         |
| 15                                  | 9075                        | DKB        | *40:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         |
| 16                                  | 9037                        | SWEIG007   | *40:02 |        |                   | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         |
| 17                                  | 9282                        | CTM3953540 | *08:01 | *55:01 |                   | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 18                                  | 9257                        | 32367      | *14:01 | *56:01 |                   | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 19                                  | 9038                        | BM16       | *18:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 20                                  | 9059                        | SLE005     | *40:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         |
| 21                                  | 9064                        | AMALA      | *15:01 |        |                   | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 22                                  | 9056                        | KOSE       | *35:03 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         |
| 23                                  | 9124                        | IHL        | *40:02 | *56:02 |                   | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         |
| 24                                  | 9035                        | JBUSH      | *38:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 25                                  | 9049                        | IBW9       | *14:02 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 26                                  | 9285                        | WT49       | *58:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 27                                  | 9191                        | CH1007     | *07:05 | *51:01 |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | -         | +         |
| 28                                  | 9320                        | BEL5GB     | *44:02 | *44:03 |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 29                                  | 9050                        | MOU        | *44:03 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 30                                  | 9021                        | RSH        | *42:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 31                                  | 9019                        | DUCAF      | *18:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 32                                  | 9297                        | HAG        | *41:02 |        |                   | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         |
| 33                                  | 9098                        | MT14B      | *40:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         |
| 34                                  | 9104                        | DHIF       | *38:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 35                                  | 9302                        | SSTO       | *44:02 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 36                                  | 9024                        | KT17       | *15:01 | *35:01 |                   | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | +         | -         | +         |
| 37                                  | 9065                        | HHKB       | *07:02 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 38                                  | 9099                        | LZL        | *15:01 |        |                   | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 39                                  | 9315                        | CML        | *08:01 | *27:05 |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 40                                  | 9134                        | WHONP199   | *13:02 | *46:01 |                   | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 41                                  | 9055                        | H0301      | *14:02 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 42                                  | 9066                        | TAB089     | *46:01 |        |                   | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 43                                  | 9076                        | T7526      | *46:01 |        |                   | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 44                                  | 9057                        | TEM        | *38:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 45                                  | 9239                        | SHJO       | *42:01 | *50:01 |                   | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         |
| 46                                  | 9013                        | SCHU       | *07:02 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 47                                  | 9045                        | TUBO       | *51:01 |        |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | W         | +         |
| 48                                  | 9303                        | TER-ND     | *35:01 | *44:03 |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | -         | +         |



101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **36Y**

Lot-specific information

| CELL LINE VALIDATION SHEET          |                             |            |        |            |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|-------------------------------------|-----------------------------|------------|--------|------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*35 SSP subtyping <sup>2</sup> |                             |            |        |            |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                     |                             |            |        |            | Well <sup>3</sup> |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                     |                             |            |        |            | 49                | 50        | 51        | 52        | 53        | 54        | 55        | 56        | 57        | 58        | 59        | 60        | 61        | 62        | 63        | 64        |
|                                     |                             |            |        | Prod. No.: | 201320649         | 201320650 | 201437951 | 201205852 | 201205853 | 201320654 | 201205855 | 201205856 | 201205857 | 201205858 | 201205859 | 201205860 | 201205861 | 201205862 | 201205863 | 201205864 |
|                                     | IHCW cell line <sup>1</sup> |            | B*     |            |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 1                                   | 9001                        | SA         | *07:02 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 2                                   | 9280                        | LK707      | *52:01 | *73:01     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 3                                   | 9011                        | E4181324   | *52:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 4                                   | 9275                        | GU373      | *15:10 | *53:01     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 5                                   | 9009                        | KAS011     | *37:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 6                                   | 9353                        | SM         | *39:01 | *51:01     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 7                                   | 9020                        | QBL        | *18:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 8                                   | 9025                        | DEU        | *35:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 9                                   | 9026                        | YAR        | *38:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 10                                  | 9107                        | LKT3       | *54:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 11                                  | 9051                        | PITOUT     | *44:03 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 12                                  | 9052                        | DBB        | *57:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 13                                  | 9004                        | JESTHOM    | *27:05 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 14                                  | 9071                        | OLGA       | *15:01 | *15:20     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 15                                  | 9075                        | DKB        | *40:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 16                                  | 9037                        | SWEIG007   | *40:02 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 17                                  | 9282                        | CTM3953540 | *08:01 | *55:01     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 18                                  | 9257                        | 32367      | *14:01 | *56:01     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 19                                  | 9038                        | BM16       | *18:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 20                                  | 9059                        | SLE005     | *40:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 21                                  | 9064                        | AMALA      | *15:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 22                                  | 9056                        | KOSE       | *35:03 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 23                                  | 9124                        | IHL        | *40:02 | *56:02     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 24                                  | 9035                        | JBUSH      | *38:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 25                                  | 9049                        | IBW9       | *14:02 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 26                                  | 9285                        | WT49       | *58:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 27                                  | 9191                        | CH1007     | *07:05 | *51:01     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 28                                  | 9320                        | BEL5GB     | *44:02 | *44:03     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 29                                  | 9050                        | MOU        | *44:03 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 30                                  | 9021                        | RSH        | *42:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 31                                  | 9019                        | DUCAF      | *18:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 32                                  | 9297                        | HAG        | *41:02 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 33                                  | 9098                        | MT14B      | *40:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 34                                  | 9104                        | DHIF       | *38:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 35                                  | 9302                        | SSTO       | *44:02 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 36                                  | 9024                        | KT17       | *15:01 | *35:01     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 37                                  | 9065                        | HHKB       | *07:02 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 38                                  | 9099                        | LZL        | *15:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 39                                  | 9315                        | CML        | *08:01 | *27:05     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 40                                  | 9134                        | WHONP199   | *13:02 | *46:01     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 41                                  | 9055                        | H0301      | *14:02 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 42                                  | 9066                        | TAB089     | *46:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 43                                  | 9076                        | T7526      | *46:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 44                                  | 9057                        | TEM        | *38:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 45                                  | 9239                        | SHJO       | *42:01 | *50:01     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 46                                  | 9013                        | SCHU       | *07:02 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 47                                  | 9045                        | TUBO       | *51:01 |            | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 48                                  | 9303                        | TER-ND     | *35:01 | *44:03     | -                 | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |

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**“Instructions for Use” (IFU)**

### Lot-specific information

For *In Vitro* Diagnostic Use.

101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **36Y**

Lot-specific information

| CELL LINE VALIDATION SHEET          |      |            |        |  |            |           |           |           |           |           |           |           |           |           |           |
|-------------------------------------|------|------------|--------|--|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*35 SSP subtyping <sup>2</sup> |      |            |        |  |            |           |           |           |           |           |           |           |           |           |           |
|                                     |      |            |        |  | Prod. No.: | 81        | 82        | 83        | 84        | 85        | 86        | 87        | 88        | 89        | 90        |
|                                     |      |            |        |  |            | 201551781 | 201437982 | 201437983 | 201437984 | 201437985 | 201437986 | 201437987 | 201551788 | 201551789 | 201551790 |
| IHWC cell line <sup>1</sup>         |      |            | B*     |  |            |           |           |           |           |           |           |           |           |           |           |
| 1                                   | 9001 | SA         | *07:02 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 2                                   | 9280 | LK707      | *52:01 |  | *73:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 3                                   | 9011 | E4181324   | *52:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 4                                   | 9275 | GU373      | *15:10 |  | *53:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 5                                   | 9009 | KAS011     | *37:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 6                                   | 9353 | SM         | *39:01 |  | *51:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 7                                   | 9020 | QBL        | *18:01 |  |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 8                                   | 9025 | DEU        | *35:01 |  |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 9                                   | 9026 | YAR        | *38:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 10                                  | 9107 | LKT3       | *54:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 11                                  | 9051 | PITOUT     | *44:03 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 12                                  | 9052 | DBB        | *57:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 13                                  | 9004 | JESTHOM    | *27:05 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 14                                  | 9071 | OLGA       | *15:01 |  | *15:20     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 15                                  | 9075 | DKB        | *40:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 16                                  | 9037 | SWEIG007   | *40:02 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 17                                  | 9282 | CTM3953540 | *08:01 |  | *55:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 18                                  | 9257 | 32367      | *14:01 |  | *56:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 19                                  | 9038 | BM16       | *18:01 |  |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 20                                  | 9059 | SLE005     | *40:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 21                                  | 9064 | AMALA      | *15:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 22                                  | 9056 | KOSE       | *35:03 |  |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 23                                  | 9124 | IHL        | *40:02 |  | *56:02     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 24                                  | 9035 | JBUSH      | *38:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 25                                  | 9049 | IBW9       | *14:02 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 26                                  | 9285 | WT49       | *58:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 27                                  | 9191 | CH1007     | *07:05 |  | *51:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 28                                  | 9320 | BEL5GB     | *44:02 |  | *44:03     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 29                                  | 9050 | MOU        | *44:03 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 30                                  | 9021 | RSH        | *42:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 31                                  | 9019 | DUCAF      | *18:01 |  |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 32                                  | 9297 | HAG        | *41:02 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 33                                  | 9098 | MT14B      | *40:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 34                                  | 9104 | DHIF       | *38:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 35                                  | 9302 | SSTO       | *44:02 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 36                                  | 9024 | KT17       | *15:01 |  | *35:01     | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 37                                  | 9065 | HHKB       | *07:02 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 38                                  | 9099 | LZL        | *15:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 39                                  | 9315 | CML        | *08:01 |  | *27:05     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 40                                  | 9134 | WHONP199   | *13:02 |  | *46:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 41                                  | 9055 | H0301      | *14:02 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 42                                  | 9066 | TAB089     | *46:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 43                                  | 9076 | T7526      | *46:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 44                                  | 9057 | TEM        | *38:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 45                                  | 9239 | SHJO       | *42:01 |  | *50:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 46                                  | 9013 | SCHU       | *07:02 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 47                                  | 9045 | TUBO       | *51:01 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 48                                  | 9303 | TER-ND     | *35:01 |  | *44:03     | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |

**101.522-24/03– including *Taq* pol., IFU-01**  
**101.522-24u/03u – without *Taq* pol., IFU-02**

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**Lot No.: 36Y**

**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.

<sup>3</sup>The C\*07:04 allele is weakly amplified by primer mix 47 in the 9045 (TUBO) cell line.

No DNAs carrying the alleles to be amplified by primer solutions 10, 35, 36, 41 to 44, 50 to 71, 74, 76 to 84, 86 to 87 and 89 were available.

The specificities of the primers in primer solutions 10, 35, 36, 41, 43, 44, 50, 58, 61, 63, 64, 68, 69, 77 and 86 were tested by separately adding one or two additional 5'-primers, respectively one or two additional 3'-primers.

In primer solutions 42, 52 to 55, 57, 62, 67, 74, 80, 81, 83 to 84 and 89 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 51, 56, 59, 60, 65, 66, 70, 71, 76, 78, 79, 82 and 87 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 10, 16, 33 to 36, 43, 64, 69 and 77 one, two or three of the 5'-primers were not possible to test, and in primer solutions 1, 10, 12, 41, 43, 44, 49, 50, 58, 61, 64, 69, 75 and 77 one or two of the 3'-primers were not possible to test.

Additional primers in primer solutions 3, 22, 26, 31, 33 and 88 were tested by separately adding one 5'-primer and/or one 3'-primer.

101.522-24/03– including *Taq* pol., IFU-01  
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **36Y**

Lot-specific information

101.522-24/03– including *Taq* pol., IFU-01  
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101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **36Y**

Lot-specific information

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