

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **0D3**

Lot-specific information

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## **Olerup SSP® HLA-B\*51**

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| Product number:                  | 101.561-24/03 – including <i>Taq</i> pol.<br>101.561-24u/03u – without <i>Taq</i> pol. |
| Lot number:                      | 0D3                                                                                    |
| Expiry date:                     | 2018-May-01                                                                            |
| Number of tests:                 | 24 tests – Product No. 101.561-24/24u<br>3 tests – Product No. 101.561-03/03u          |
| Number of wells per test:        | 79+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. 0D3.**

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\*51 LOT (62X).**

The HLA-B\*51 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

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

Three wells have been added to HLA-B\*51, wells **78 to 80**.

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

The HLA-B\*51 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B\*51 lot was made (**Lot No. 62X**). The kit design is based on IMGT/HLA database 3.21.1.

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

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

| Well | 5'-primer | 3'-primer | rationale                                                                                   |
|------|-----------|-----------|---------------------------------------------------------------------------------------------|
| 4    | -         | -         | Exchanged positive control primer pair for decreased tendency of primer oligomer formation. |
| 20   | -         | Added     | 3'-primer added for the B*51:185 allele.                                                    |
| 53   | -         | Added     | 3'-primer added for the B*51:174 allele.                                                    |
| 58   | Added     | -         | 5'-primer added for the B*51:168 allele.                                                    |
| 73   | -         | Added     | 3'-primer added for the B*51:174 allele.                                                    |
| 76   | Added     | -         | 5'-primers added for the B*51:168 added.                                                    |
| 77   | Added     | Added     | Updated negative control moved to well 80, primer pair added from well B*51:160 allele.     |
| 78   | New       | New       | New primer pair added for the B*51:184N allele.                                             |
| 79   | New       | New       | New primer pair for the B*51:187 allele.                                                    |
| 80   | -         | -         | Updated negative control added from well 77.                                                |

Change in revision R01 compared to R00:

1. Primer mix 16 amplifies the B\*35:291 and the C\*15:15 alleles. This has been corrected in the Specificity and Interpretation Tables.

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Well **80** 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\*51 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*51:01 to B\*51:190 alleles.

#### PLATE LAYOUT

Each test consists of 80 PCR reactions in a 96 well PCR plate. Wells 81 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    | 42    | 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    | NC    |
| empty | empty | empty | empty | empty | empty | empty | empty |
| empty | empty | empty | empty | empty | empty | empty | empty |

The 96 well cut PCR plate is marked with 'HLA-B\*51' in silver/gray ink.

Well No. 1 is marked with the Lot No. '0D3'.

Wells 1 to 79 – HLA-B\*51 high resolution primers.

Well 80 – 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\*51 alleles will be amplified by primer mixes 1 to 3, 5 to 11, 14 to 32, 34 to 36, 38 to 41, 44, 46 to 50, 52, 54, 56, 57, 60 to 63, 65, 71 to 75 and 79. In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 5, 7, 16, 24, 27, 30, 32, 34, 35, 38, 41, 44, 50, 56, 69, 74 and 75.

For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*51 alleles, i.e. **B\*51:01 to B\*51:190**, recognized by the HLA Nomenclature Committee in August 2015<sup>1,2</sup> will be amplified by the primers in the HLA-B\*51 subtyping kit<sup>3</sup>.

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The HLA-B\*51 kit enables separation of the confirmed HLA-B\*51 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\*51 alleles is listed below.

The HLA-B\*51 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\*51 alleles can be distinguished by the different sizes of the specific PCR product:

| Alleles         | Primer mix | Alleles           | Primer mix |
|-----------------|------------|-------------------|------------|
| B*51:26, 51:185 | 20         | B*51:70, 51:71    | 53         |
| B*51:30, 51:142 | 25         | B*51:74, 51:124   | 54         |
| B*51:39, 51:126 | 27         | B*51:75, 51:77    | 55         |
| B*51:51, 51:76  | 44         | B*51:83, 51:88    | 59         |
| B*51:57, 51:123 | 46         | B*51:84, 51:94    | 60         |
| B*51:66, 51:67  | 64         | B*51:86, 51:95    | 62         |
| B*51:68, 51:72  | 51         | B*51:127, 51:149N | 73         |

The HLA-B\*51 subtyping kit cannot distinguish following silent mutations: the B\*51:01:01:01-51:01:01:02, 51:01:03-51:01:07, 51:01:10-51:01:14, 51:01:16-51:01:20, 51:01:22-51:01:24, 51:01:26-51:01:38, 51:01:41 and 51:01:44-51:01:52 alleles, the B\*51:01:08, 51:01:15 and 51:01:43 alleles, the B\*51:01:21 and 51:01:25 alleles, the B\*51:01:42 and 51:01:53 alleles, the B\*51:02:01 and 51:02:03-51:02:05 alleles, the B\*51:08:01-51:08:02 alleles, the B\*51:13:01-51:13:02 alleles, the B\*51:24:01 and 51:24:05, the B\*51:24:02-51:24:04 alleles, the B\*51:56:02-51:56:03 alleles, the B\*51:61:01-51:61:03 alleles, the B\*51:92:01-51:92:02 or the B\*51:158:01-51:158:02 alleles.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2015-August-11, release 3.21.1, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

<sup>3</sup>The B\*51:119, 51:176 and 51:179 and the B\*52:06:03 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or the HLA-B\*52 high resolution kit.

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## ALLELE CONFIRMATION STATUS

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

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|-----------------|---------------------|--------------------|---------------------|-----------------|---------------------|
| B*51:132        | Unconfirmed         | <b>B*51:152</b>    | <b>Confirmed</b>    | B*51:171        | Unconfirmed         |
| B*51:133        | Unconfirmed         | B*51:153           | Unconfirmed         | B*51:172        | Unconfirmed         |
| <b>B*51:134</b> | <b>Confirmed</b>    | B*51:154           | Unconfirmed         | B*51:173Q       | Unconfirmed         |
| B*51:135        | Unconfirmed         | B*51:155           | Unconfirmed         | <b>B*51:174</b> | <b>Confirmed</b>    |
| <b>B*51:136</b> | <b>Confirmed</b>    | <b>B*51:156</b>    | <b>Confirmed</b>    | B*51:175        | Unconfirmed         |
| B*51:137        | Unconfirmed         | B*51:157           | Unconfirmed         | B*51:176        | Unconfirmed         |
| B*51:138        | Unconfirmed         | <b>B*51:158:01</b> | <b>Confirmed</b>    | B*51:177        | Unconfirmed         |
| B*51:139        | Unconfirmed         | <b>B*51:158:02</b> | <b>Confirmed</b>    | B*51:178N       | Unconfirmed         |
| B*51:140        | Unconfirmed         | B*51:159           | Unconfirmed         | B*51:179        | Unconfirmed         |
| B*51:141        | Unconfirmed         | <b>B*51:160</b>    | <b>Confirmed</b>    | B*51:180        | Unconfirmed         |
| B*51:142        | Unconfirmed         | B*51:161           | Unconfirmed         | B*51:181        | Unconfirmed         |
| B*51:143        | Unconfirmed         | B*51:162           | Unconfirmed         | B*51:182        | Unconfirmed         |
| B*51:144        | Unconfirmed         | B*51:163           | Unconfirmed         | B*51:183        | Unconfirmed         |
| B*51:145        | Unconfirmed         | B*51:164           | Unconfirmed         | B*51:184N       | Unconfirmed         |
| <b>B*51:146</b> | <b>Confirmed</b>    | B*51:165           | Unconfirmed         | <b>B*51:185</b> | <b>Confirmed</b>    |
| <b>B*51:147</b> | <b>Confirmed</b>    | B*51:166           | Unconfirmed         | B*51:186        | Unconfirmed         |
| B*51:148        | Unconfirmed         | B*51:167           | Unconfirmed         | <b>B*51:187</b> | <b>Confirmed</b>    |
| B*51:149N       | Unconfirmed         | <b>B*51:168</b>    | <b>Confirmed</b>    | B*51:188        | Unconfirmed         |
| B*51:150        | Unconfirmed         | B*51:169           | Unconfirmed         | B*51:189        | Unconfirmed         |
| B*51:151        | Unconfirmed         | B*51:170           | Unconfirmed         | B*51:190        | Unconfirmed         |

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2015-August-11, release 3.21.1, [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\*51 homo- and heterozygotes is available upon request.



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## SPECIFICITY TABLE

### HLA-B\*51 SSP subtyping

Specificities and sizes of the PCR products of the 79+1 primer mixes used for HLA-B\*51 SSP subtyping

| Primer Mix           | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | Amplified HLA-B*51 alleles <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                        | Other amplified HLA-B alleles <sup>4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|----------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1<sup>5</sup></b> | 105 bp                                 | <b>800 bp</b>                     | *51:01:01:01-51:06:02, 51:08:01-51:21, 51:23-51:24:05, 51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:127, 51:129-51:146, 51:148-51:188, 51:190                                                                                                                                                                                                                                                                                                           | *08:32, 08:133, 18:07:01-18:07:02, 18:29, 18:79, 35:01:01:01-35:08:01, 35:08:03-35:08:04, 35:08:06-35:18, 35:21-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 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, 35:136-35:153, 35:155-35:185, 35:187-35:197, 35:199-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:228, 35:230-35:253, 35:256-35:270, 35:272-35:273, 35:275-35:282, 35:285-35:293, 35:295, 37:21, 38:06-38:07, 44:06, 52:06:01-52:06:03, 53:01:01-53:08:02, 53:10-53:16, 53:18-53:27, 53:29, 53:31-53:37, 78:01:01-78:02:02, 78:04, 78:07-78:08 |
| <b>2<sup>5</sup></b> | 95 bp                                  | 1070 bp                           | *51:01:01:01-51:01:53, 51:03-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:22, 51:24:01-51:24:05, 51:26-51:30, 51:32-51:33, 51:35, 51:37-51:39, 51:41N, 51:43, 51:45-51:46, 51:48-51:52, 51:55-51:58, 51:60-51:72, 51:74-51:80, 51:82-51:92:02, 51:94-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:119, 51:121, 51:123-51:138, 51:140, 51:142, 51:145, 51:147, 51:149N-51:152, 51:154-51:156, 51:158:01-51:174, 51:176-51:179, 51:182-51:190 | *07:218, 13:62, 14:01:01-14:40, 14:42, 14:44-14:45, 14:47-14:49, 15:37-15:38:02, 15:323, 15:335, 18:15, 18:19, 18:30, 18:57, 35:21, 35:96, 35:188, 40:28, 40:51, 40:174, 49:09, 52:01:01:01-52:01:24, 52:01:27-52:02:02, 52:04-52:09, 52:12-52:18, 52:20-52:27, 52:30-52:45, 52:47-52:50, 53:06, 53:28, 56:05:01-56:06, 56:21, 58:08:01-58:08:02, 78:01:01-78:03, 78:05-78:07, <b>C*01:30, C*08:51, C*08:114, C*12:87, C*15:39</b>                                                                                                                                                                                              |
| <b>3<sup>6</sup></b> | 265 bp                                 | 1070 bp                           | *51:02:01-51:02:05, 51:05, 51:10, 51:15, 51:23, 51:34, 51:36, 51:40, 51:54, 51:93, 51:108, 51:143-51:144, 51:146, 51:157, 51:180                                                                                                                                                                                                                                                                                                                               | *07:78, 07:84, 08:09, 08:84, 13:02:01-13:02:12, 13:02:14-13:04, 13:08-13:09, 13:14, 13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37-13:38, 13:40-13:42, 13:45-13:49N, 13:53-13:56:02N, 13:58-13:59, 13:65-13:70, 13:72, 13:74-13:75, 13:81-13:82, 13:84, 15:04:01-15:04:02,                                                                                                                                                                                                                                                                                                                                                       |



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|----------------------|--------|---------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |        |               |                                                                                                                             | 15:16:01-15:16:03, 15:42, 15:67, 15:83, 15:95, 15:137, 15:155, 15:222, 15:254, 15:293, 15:303, 15:310, 15:362, 27:14, 27:81, 27:130, 35:37, 35:60, 35:235, 35:265, 35:273, 35:276, 39:06:01-39:06:05, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 40:06:01:01-40:06:12, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298, 40:306-40:307, 41:01:01-41:01:03, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20-41:22, 41:25-41:26, 41:28-41:30, 41:32-41:35, 41:37, 42:04, 44:15, 44:18, 44:20, 44:47, 44:100, 44:197, 45:01:01-45:16, 46:11, 46:18, 46:32, 49:01:01-49:01:04, 49:01:06, 49:01:08-49:08, 49:10-49:14, 49:16-49:39, 50:01:01-50:02, 50:04-50:11, 50:13-50:16, 50:18-50:20, 50:31-50:43, 52:03, 52:11, 54:01:01-54:05N, 54:07-54:08N, 54:10-54:34, 55:01:01-55:01:06, 55:01:08-55:02:02, 55:02:04-55:03, 55:05, 55:07, 55:09-55:13, 55:15-55:48, 55:50, 55:52-55:71, 55:73-55:75, 56:01:01:01-56:01:08, 56:07-56:08, 56:13-56:17, 56:19N-56:20:02, 56:22-56:30, 56:33, 56:35-56:36, 56:38N-56:49, 59:01:01:01-59:09, 78:04 |
| <b>4</b>             | 255 bp | 1070 bp       | *51:03                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>5</b>             | 270 bp | 1070 bp       | *51:04, 51:46, 51:56:01-51:56:03, 51:139                                                                                    | *14:10, 18:22, 18:69 <sup>w</sup> , 18:105, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 35:233, 35:287, 37:04:01 <sup>w</sup> -37:04:02 <sup>w</sup> , 40:28, 44:190, 44:203, 53:02, 53:06, 53:28, 57:14:01-57:14:02, 58:09, <b>C*15:39</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>6<sup>6</sup></b> | 210 bp | <b>800 bp</b> | *51:05 <sup>w</sup> , 51:09:01-51:10, 51:15, 51:19, 51:31, 51:40, 51:54 <sup>w</sup> , 51:73, 51:93, 51:108, 51:122, 51:157 | *13:02:01-13:04, 13:08-13:09, 13:14-13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:35, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:53-13:56:02N, 13:58-13:59, 13:65-13:70, 13:72, 13:74-13:75, 13:81-13:82, 13:84, 15:155, 15:222, 27:14, 27:81, 27:130, 35:37, 35:60, 35:235, 35:273, 35:276, 39:06:01-39:06:05, 39:33 <sup>w</sup> , 39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 40:06:01:01-40:06:12, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:159, 40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298, 40:306-40:307, 44:47, 44:197, 46:11, 46:18, 49:11, 52:03, 52:10:01-52:10:03, 54:01:01-54:05N,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|----------------------|------------------|---------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                  |               |                                                                                | 54:07-54:08N, 54:10 <sup>w</sup> , 54:11-54:19, 54:21-54:32, 54:34, 55:02:01:01-55:02:09, 55:07, 55:10, 55:12-55:13, 55:16, 55:18-55:19, 55:22-55:23, 55:26-55:27, 55:30, 55:32, 55:34-55:35, 55:37 <sup>w</sup> , 55:39, 55:41-55:43, 55:46-55:48, 55:50, 55:61-55:63, 55:65, 55:67, 55:69-55:71, 56:01:01:01-56:01:08, 56:07-56:08, 56:14-56:17, 56:19N-56:20:02, 56:22-56:24, 56:26-56:29, 56:33-56:36, 56:38N-56:42, 56:44-56:49, 59:01:01:01-59:09, 73:01-73:02, 78:04, 78:08                                                                                  |
| <b>7</b>             | 240 bp<br>270 bp | 1070 bp       | *51:156<br>*51:06:01-51:06:02,<br>51:45, 51:62, 51:64,<br>51:135               | *07:218, 07:220, 08:118, 14:01:01-14:09, 14:11-14:19, 14:21-14:36, 14:38-14:45, 14:47-14:49, 15:37-15:38:02, 15:185, 15:323, 15:335, 18:01:01:01-18:09, 18:12-18:15, 18:17N-18:20, 18:23N-18:34, 18:36-18:38, 18:40-18:55, 18:57, 18:59-18:68, 18:70-18:88, 18:90-18:100, 18:102-18:104, 18:106-18:109, 18:111-18:113, 27:28, 27:62, 39:32, 39:43, 39:48, 40:51, 40:113, 40:163, 40:174, 56:31, <b>C*01:30, C*08:51, C*08:114, C*12:87</b>                                                                                                                          |
| <b>8<sup>s</sup></b> | 105 bp           | <b>800 bp</b> | *51:07:01-51:07:02                                                             | *13:58, 15:202, 15:239, 15:308, 18:01:01:01-18:06, 18:08-18:15, 18:17N-18:28, 18:30-18:32, 18:34-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:78, 18:80-18:106, 18:108-18:113, 35:20:01-35:20:02, 35:28, 35:72, 35:95, 35:226, 35:296, 37:01:01-37:01:05, 37:01:07-37:05, 37:07-37:20, 37:22-37:25, 37:27, 37:29-37:56, 40:185, 40:209, 40:308, 44:83, 44:134, 49:03, 52:01:01:01-52:01:12, 52:01:14-52:01:24, 52:01:27-52:01:28, 52:03-52:05, 52:07-52:15, 52:17-52:21, 52:24-52:31:02, 52:33-52:45, 52:47-52:50, 53:09, 53:17:01-53:17:02, 53:28, 53:38, 78:05-78:06 |
| <b>9<sup>s</sup></b> | 85 bp            | 1070 bp       | *51:08:01-51:08:02,<br>51:20, 51:44N, 51:97,<br>51:141, 51:153                 | *08:118, 18:113, 37:04:01-37:04:02, 44:190, 52:19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>10</b>            | 205 bp<br>160 bp | 1070 bp       | *51:17, 51:35<br>*51:01:09, 51:01:21,<br>51:01:25, 51:10,<br>51:24:02-51:24:04 | *07:78, 07:84, 27:14, 27:81, 27:130, 40:06:01:01-40:06:04, 40:06:06-40:06:12, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298, 40:306-40:307, 54:11, 56:20:02, 73:01-73:02                                                                                                                                                                                          |
|                      | 245 bp           |               | *51:21, 51:36, 51:101,<br>51:143, 51:153, 51:157                               | *08:09, 08:84, 13:46, 13:53, 14:37, 15:42, 15:83, 35:60, 35:276, 39:06:01-39:06:05, 39:34, 39:57, 39:62, 39:64, 39:83, 39:90, 41:01:01-41:01:04, 41:05-41:07, 41:09,                                                                                                                                                                                                                                                                                                                                                                                                |

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|-----------------------|------------------|---------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |               |                                                                           | 41:12, 41:14, 41:16, 41:20-41:22, 41:25-41:26, 41:28-41:30, 41:32-41:35, 41:37, 42:04, 45:08, 46:18, 52:37, 54:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10-54:25, 54:27-54:32, 54:34, 55:01:01-55:01:06, 55:01:08-55:03, 55:05, 55:07, 55:10-55:13, 55:15-55:21, 55:23, 55:25-55:48, 55:50, 55:52-55:71, 55:73-55:75, 56:23, 59:01:01:01-59:03, 59:05-59:08, 78:07                                                                                                                                                                                                                                                                            |
| <b>11</b>             | 245 bp           | 1070 bp       | *51:10, 51:16, 51:31, 51:34, 51:82, 51:93                                 | *07:78, 07:84, 13:02:01-13:02:18, 13:08-13:09, 13:14-13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37-13:38, 13:40-13:42, 13:44-13:45, 13:47, 13:49N, 13:54-13:56:02N, 13:58-13:59, 13:65-13:70, 13:72, 13:74-13:75, 13:81-13:82, 13:84, 27:14, 27:81, 27:130, 39:50, 40:06:01:01-40:06:12, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298, 40:306-40:307, 45:10, 49:07, 50:31, 52:08, 54:26, 55:09, 55:22, 55:24, 59:09, 73:01-73:02, 78:08 |
| <b>12</b>             | 495 bp           | 1070 bp       | *51:11N                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>13</b>             | 200 bp           | 1070 bp       | *51:12                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>14<sup>5</sup></b> | 105 bp           | 1070 bp       | *51:13:01-51:13:02, 51:92:01-51:92:02, 51:172                             | *13:46, 15:137, 35:235, 35:276, 39:06:01-39:06:05, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 40:86, 45:02, 50:09, 52:14, 55:13, 55:58, 56:22, 59:03, 73:01-73:02                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>15<sup>5</sup></b> | 100 bp<br>230 bp | <b>800 bp</b> | *51:14<br>*51:19, 51:101                                                  | *35:276, 39:06:01-39:06:05, 39:57, 39:62, 39:64, 39:83, 39:90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>16</b>             | 170 bp           | 1070 bp       | *51:15, 51:35, 51:62, 51:106                                              | *13:03, 13:48, 15:73, 15:303, 35:291, 40:71, 44:10, 44:15, 44:18, 44:140, 45:01:01-45:01:02, 45:04-45:07, 45:11-45:16, 46:11, 49:01:01-49:01:07, 49:02-49:03, 49:06, 49:08-49:14, 49:16-49:17, 49:19N-49:39, 50:01:01-50:02, 50:04-50:08, 50:10-50:13, 50:15-50:19, 50:32, 50:34-50:38, 50:40-50:43, 52:25, 54:03, 54:33, 56:01:01:01-56:01:04, 56:01:06-56:02, 56:04, 56:07-56:08, 56:13-56:14, 56:16-56:17, 56:20:01-56:20:02, 56:24-56:30, 56:33-56:49, 59:04, 82:01-82:03, <b>C*03:19, C*03:102, C*15:15</b>                                                                                                                                 |
|                       | 195 bp           |               | *51:18                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>17<sup>5</sup></b> | 105 bp           | <b>800 bp</b> | *51:22                                                                    | *18:33, 35:82, 35:85, 35:135, 35:294, 39:19:01-39:19:02, 78:03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>18</b>             | 140 bp<br>220 bp | <b>800 bp</b> | *51:28<br>*51:08:01-51:08:02, 51:20, 51:36, 51:44N, 51:97, 51:141, 51:153 | *08:09, 08:84, 13:46, 15:83, 41:01:01-41:01:04, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20-41:22, 41:25-41:26,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|-----------------------|------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |               |                                                                                                                                                                                                                                                                                                                                                           | 41:28-41:30, 41:32-41:35, 41:37, 42:04, 44:15, 44:18, 44:20, 44:100, 45:01:01-45:16, 52:19, 55:20, 55:56, 56:13                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>19</b>             | 145 bp           | <b>800 bp</b> | *51:10, 51:24:01-51:24:05                                                                                                                                                                                                                                                                                                                                 | *07:78, 07:84, 08:09, 08:84, 27:130, 40:06:01:01-40:06:12, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298, 40:306-40:307, 41:01:01-41:01:04, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20-41:22, 41:25-41:26, 41:28-41:30, 41:32-41:35, 41:37, 42:04, 54:11, 55:20, 56:20:01-56:20:02, 59:02, 73:01-73:02 |
| <b>20<sup>5</sup></b> | 110 bp<br>200 bp | 1070 bp       | *51:26<br>*51:185                                                                                                                                                                                                                                                                                                                                         | *52:09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>21</b>             | 130 bp<br>185 bp | 1070 bp       | *51:38<br>*51:27N                                                                                                                                                                                                                                                                                                                                         | *13:42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>22</b>             | 160 bp           | 1070 bp       | *51:01:01:01-51:01:01:02, 51:01:03-51:01:08, 51:01:10-51:02:01, 51:02:03-51:04, 51:06:01-51:07:01, 51:08:01-51:09:01, 51:10-51:14, 51:16-51:24:05, 51:26-51:46, 51:48-51:53, 51:55-51:78:01, 51:79-51:88, 51:90-51:92:02, 51:94-51:102, 51:104-51:115, 51:117, 51:120-51:131, 51:133-51:143, 51:145-51:147, 51:149N-51:175, 51:177-51:178N, 51:181-51:190 | *07:65 <sup>w</sup> , 07:206 <sup>w</sup> , 18:04, 35:08:05, 35:42:02, 35:185, 39:63, 44:06, 53:06, 56:05:01 <sup>w</sup> , 56:06 <sup>w</sup> , 78:01:01-78:01:02, 78:02:02-78:03, 78:07-78:08                                                                                                                                                                                                                                                                                                                    |
| <b>23</b>             | 210 bp           | 1070 bp       |                                                                                                                                                                                                                                                                                                                                                           | *07:65, 07:206, 15:32:02, 18:04, 35:08:05, 35:42:02, 35:185, 39:63, 40:01:11, 40:58, 46:40:01, 56:05:01, 56:06, 78:01:01-78:01:02, 78:02:02-78:03, 78:07-78:08                                                                                                                                                                                                                                                                                                                                                     |
| <b>24</b>             | 210 bp           | 1070 bp       | *51:01:01:01-51:01:01:02, 51:01:03-51:01:08, 51:01:10-51:01:39, 51:01:41-51:02:01, 51:02:03-51:04, 51:06:01-51:07:01, 51:08:01-51:09:01, 51:10-51:14, 51:16-51:24:05, 51:26-51:42, 51:43 <sup>w</sup> , 51:44N-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:88, 51:90-51:92:02, 51:94-51:102, 51:104-51:115, 51:117-51:118N, 51:120-51:131, 51:133-51:143,   | *44:06, 49:03, 52:01:02, 52:01:04, 52:01:09, 52:02:01, 52:03, 52:06:01-52:06:02, 52:09, 52:10:03, 52:21, 52:31:02, 53:06, 57:01:20, 58:08:01, <b>A*23:01:14</b>                                                                                                                                                                                                                                                                                                                                                    |

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|---------------------------|--------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           |                                      |               | 51:145-51:147, 51:149N-<br>51:175, 51:177-51:178N,<br>51:181-51:190                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>25<sup>5,7</sup></b>   | 120 bp<br>175 bp<br>205 bp           | <b>800 bp</b> | *51:38, 51:142<br>*51:30<br>*51:53                                                                                                                                                                                                                                                                                                                                                                                                    | *13:42<br>*52:29, 55:54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>26<sup>5</sup></b>     | 105 bp                               | 1070 bp       | *51:13:01-51:13:02,<br>51:37, 51:63, 51:92:01-<br>51:92:02, 51:97, 51:172                                                                                                                                                                                                                                                                                                                                                             | *13:04, 13:46, 13:72, 15:04:01-15:04:02,<br>15:16:01-15:16:03, 15:67, 15:95, 15:137,<br>15:155, 15:222, 15:254, 15:293, 15:310,<br>15:362, 35:37, 35:235, 35:265, 35:276,<br>39:06:01-39:06:05, 39:33-39:34, 39:50,<br>39:57, 39:62, 39:64, 39:83, 39:90, 39:102,<br>40:86, 40:159, 41:30, 45:02, 45:09, 46:32,<br>49:04:01-49:05, 50:09, 50:33, 52:14, 52:39,<br>54:14, 55:13, 55:23, 55:32, 55:58, 55:68,<br>56:22, 59:03, 73:01-73:02                                                                                                                                                                                                                                                                      |
| <b>27<sup>8</sup></b>     | 155 bp<br>140 bp<br>205 bp<br>270 bp | <b>800 bp</b> | *51:32<br>*51:126<br>*51:33<br>*51:04, 51:46, 51:56:01-<br>51:56:03, 51:139                                                                                                                                                                                                                                                                                                                                                           | *27:69, 40:213, 58:52<br><b>C*08:114</b><br>*44:165, 58:53<br>*14:10, 18:22, 18:69 <sup>w</sup> , 18:105, 35:21,<br>35:24:01-35:24:02, 35:81, 35:96, 35:109,<br>35:157, 35:188, 35:190, 35:233, 35:287,<br>37:04:01 <sup>w</sup> -37:04:02 <sup>w</sup> , 40:28, 44:190, 44:203,<br>53:02, 53:06, 53:28, 57:14:01-57:14:02,<br>58:09, <b>C*15:39</b>                                                                                                                                                                                                                                                                                                                                                          |
| <b>28</b>                 | 345 bp<br>205 bp<br>255 bp           | 1070 bp       | *51:39<br>*51:33<br>*51:23, 51:108                                                                                                                                                                                                                                                                                                                                                                                                    | *37:52, 44:24, 44:181, 81:06 <sup>?</sup><br>*44:165, 58:53<br>*44:15, 44:18, 44:20, 44:47, 44:100, 44:197,<br>45:01:01-45:03, 45:05-45:07, 45:09, 45:11-<br>45:16, 49:20, 50:02, 52:15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>29</b>                 | 245 bp                               | 1070 bp       | *51:01:01:01-51:01:38,<br>51:01:40-51:03, 51:05,<br>51:07:01-51:09:02,<br>51:11N-51:15, 51:17-<br>51:20, 51:22-51:24:05,<br>51:26-51:30, 51:32-51:33,<br>51:35, 51:37-51:41N,<br>51:43-51:44N, 51:48-<br>51:55, 51:57-51:58,<br>51:60-51:61:02, 51:63,<br>51:65-51:80, 51:83-<br>51:92:02, 51:94-51:100,<br>51:102-51:134, 51:136-<br>51:138, 51:140-51:142,<br>51:145-51:147, 51:149N-<br>51:152, 51:154-51:156,<br>51:158:01-51:190 | *13:03-13:04, 13:48, 13:62, 15:04:01-<br>15:04:02, 15:16:01-15:16:03, 15:67, 15:95,<br>15:137, 15:155, 15:222, 15:254, 15:293,<br>15:303, 15:310, 15:362, 35:37, 35:235,<br>35:265, 35:273, 39:33, 41:17, 44:15, 44:18,<br>44:20, 44:47, 44:100, 44:197, 45:01:01-<br>45:07, 45:09, 45:11-45:16, 46:11, 46:32,<br>49:01:01-49:06, 49:08-49:14, 49:16-49:39,<br>50:01:01-50:02, 50:04-50:11, 50:13-50:16,<br>50:18-50:20, 50:32-50:43, 52:01:01:01-<br>52:01:20, 52:01:22-52:01:24, 52:01:27-<br>52:07, 52:09-52:36, 52:38-52:45, 52:47-<br>52:50, 54:03, 54:33, 56:01:01:01-56:01:08,<br>56:05:01-56:08, 56:13-56:17, 56:19N-56:22,<br>56:24-56:30, 56:33-56:49, 58:08:01-<br>58:08:02, 59:04, 78:01:01-78:06 |
| <b>30<sup>5,6,7</sup></b> | 105 bp                               | <b>800 bp</b> | *51:06:01, 51:56:01,<br>51:59, 51:64, 51:135                                                                                                                                                                                                                                                                                                                                                                                          | *07:02:11, 07:05:03, 15:01:02, 15:09,<br>15:243, 15:252, 15:277-15:278, 15:361,<br>35:251, 40:01:06, 40:26, 44:62, <b>C*02:02:23</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>31<sup>5</sup></b>     | 105 bp                               | 1070 bp       | *51:13:01-51:13:02,<br>51:37, 51:63, 51:92:01-<br>51:92:02, 51:97, 51:172                                                                                                                                                                                                                                                                                                                                                             | *13:04, 13:46, 13:72, 15:04:01-15:04:02,<br>15:16:01-15:16:03, 15:67, 15:95, 15:137,<br>15:155, 15:222, 15:254, 15:293, 15:310,<br>15:362, 35:37, 35:235, 35:265, 35:276,<br>39:06:01-39:06:05, 39:33-39:34, 39:50,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|-----------------------|--------|---------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | 225 bp |         | *51:05, 51:29, 51:54,<br>51:61:01-51:61:02, 51:82 | 39:57, 39:62, 39:64, 39:83, 39:90, 39:102,<br>40:86, 40:159, 41:30, 45:02, 45:09, 46:32,<br>49:04:01-49:05, 50:09, 50:33, 52:14, 52:39,<br>54:14, 55:13, 55:23, 55:32, 55:58, 56:22,<br>55:68, 59:03, 73:01-73:02<br>*07:78, 07:84, 13:18, 13:31, 13:41,<br>15:04:01-15:04:02, 15:137, 15:303, 35:265,<br>39:33, 40:161, 46:32, 52:21, 52:24, 54:10,<br>54:20, 54:33, 55:09, 55:21, 55:37, 55:52,<br>56:43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>32</b>             | 165 bp | 1070 bp | *51:16, 51:31, 51:34,<br>51:82, 51:93             | *07:02:11, 07:05:03, 27:04:03, 40:01:06,<br>40:95, 52:08, 78:08, <b>C*02:02:23</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>33</b>             | 195 bp | 1070 bp | *51:41N                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>34</b>             | 260 bp | 1070 bp | *51:42                                            | *27:127, 35:45, 35:71, 35:169, 44:02:01:01-<br>44:02:07, 44:02:09-44:02:33, 44:02:35-<br>44:02:38, 44:03:01-44:03:16, 44:03:18-<br>44:14, 44:17, 44:19N, 44:21-44:30, 44:32-<br>44:36, 44:38-44:40, 44:43:01-44:46, 44:48-<br>44:53, 44:55-44:63, 44:66-44:90, 44:92-<br>44:98, 44:102-44:105, 44:107-44:131,<br>44:133-44:134, 44:136-44:137, 44:139-<br>44:149N, 44:151-44:157, 44:159-44:165,<br>44:167-44:183, 44:185-44:189, 44:191-<br>44:192, 44:194, 44:196, 44:198N-44:212,<br>44:214-44:223, 53:22, 57:07, 83:01,<br><b>C*15:25</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>35</b>             | 225 bp | 1070 bp |                                                   | *08:49, 08:60, 08:76, 08:129, 27:127, 35:38,<br>35:115, 35:169, 35:260, 37:01:01-37:01:07,<br>37:01:09, 37:01:11, 37:03N-37:06:02, 37:08,<br>37:10-37:38, 37:41-37:43, 37:45-37:50,<br>37:52-37:56, 42:13, 44:02:01:01-44:02:33,<br>44:02:35-44:02:39, 44:05:01-44:06, 44:08-<br>44:09, 44:11-44:12, 44:14, 44:16-44:17,<br>44:19N, 44:21-44:25, 44:27:01-44:27:02,<br>44:33-44:34:02, 44:42, 44:44, 44:48-44:49,<br>44:51-44:53, 44:55, 44:58N-44:59:02,<br>44:62-44:63, 44:66-44:68, 44:70-44:75,<br>44:78, 44:80, 44:83-44:84:02, 44:86-44:91,<br>44:93, 44:95, 44:97, 44:101-44:102, 44:104,<br>44:112-44:113, 44:116-44:119, 44:121,<br>44:123, 44:126:01-44:127, 44:131-44:134,<br>44:136-44:137, 44:139-44:140, 44:142,<br>44:145, 44:148-44:149N, 44:151-44:152,<br>44:162, 44:168-44:173, 44:176-44:177,<br>44:179, 44:185, 44:187, 44:190-44:191,<br>44:195N-44:196, 44:200-44:201, 44:206,<br>44:208, 44:211-44:212, 44:214, 44:216-<br>44:221, 53:22, 57:09, 57:24, 83:01, <b>C*15:25</b> |
| <b>36<sup>5</sup></b> | 110 bp | 1070 bp | *51:165                                           | *07:120, 15:214, 18:81, 35:250, 40:150,<br>57:29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                       | 215 bp |         | *51:43                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>37</b>             | 165 bp | 1070 bp | *51:44N                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                       | 225 bp |         | *51:55                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>38</b>             | 205 bp | 1070 bp | *51:37, 51:45, 51:63,<br>51:97                    | *15:38:01-15:38:02, 15:185, 15:335,<br>18:01:01:01-18:09, 18:12-18:15,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-------------------------|--------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         |        |               |                                                                                                                                                                                                      | 18:17N-18:20, 18:22-18:25, 18:27-18:34, 18:36-18:40, 18:42-18:55, 18:57, 18:59-18:60, 18:62-18:100, 18:102-18:109, 18:111-18:113, 35:21, 35:24:01-35:24:02, 35:188, 35:190, 35:287, 39:43, 52:39, 53:02, 53:06, 53:28, 56:31, 57:14:01-57:14:02, 58:09, <b>C*12:87</b>                                                                                                                                                                                                                                                                                                                         |
|                         | 250 bp |               | *51:173Q                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>39<sup>7,8</sup></b> | 250 bp | 1070 bp       | *51:46, 51:64-51:65                                                                                                                                                                                  | *07:218, 07:220, 08:118, 14:05, 14:13, 18:14, 40:174, 52:43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>40</b>               | 185 bp | 1070 bp       | *51:01:01:01-51:01:39, 51:01:41, 51:01:43-51:01:52, 51:02:01-51:24:05, 51:26-51:46, 51:48-51:53, 51:55-51:59, 51:61:01-51:72, 51:74-51:77, 51:79-51:102, 51:104-51:124, 51:126-51:140, 51:142-51:190 | *07:36, 07:38, 07:81, 07:180, 07:219, 15:13:01-15:13:02, 15:17:01:01-15:17:03, 15:24:01-15:24:02, 15:87, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:230, 15:268, 15:273, 15:356, 15:361, 27:75, 37:34, 44:06, 48:18, 49:03, 52:01:01:01-52:01:24, 52:01:27-52:19, 52:21-52:45, 52:47-52:50, 53:01:01-53:01:10, 53:02, 53:04-53:08:02, 53:10, 53:14-53:29, 53:32-53:35, 53:37, 53:39, 57:01:01-57:01:08, 57:01:10-57:11, 57:13-57:50, 57:52-57:68, 57:70-57:79N, 58:01:01:01-58:02, 58:04-58:16:02, 58:18-58:29, 58:31N-58:43, 58:45:01-58:47, 58:49-58:63, 58:65-58:69, 58:72N |
| <b>41<sup>7</sup></b>   | 225 bp | 1070 bp       | *51:05, 51:29, 51:54, 51:61:01-51:61:02, 51:82                                                                                                                                                       | *07:78, 07:84, 13:18, 13:31, 13:41, 15:04:01-15:04:02, 15:137, 15:303, 35:265, 39:33, 40:161, 46:32, 52:21, 52:24, 54:10, 54:20, 54:33, 55:09, 55:21, 55:37, 55:52, 56:43                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                         | 305 bp |               | *51:48, 51:166                                                                                                                                                                                       | *15:140, <b>C*02:83, C*08:24</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                         | 380 bp |               | *51:169                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>42<sup>5</sup></b>   | 100 bp | <b>800 bp</b> | *51:60                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                         | 135 bp |               | *51:49                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>43<sup>5</sup></b>   | 115 bp | <b>800 bp</b> | *51:58                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                         | 215 bp |               | *51:50                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>44</b>               | 285 bp | <b>800 bp</b> | *51:76, 51:166                                                                                                                                                                                       | *08:39, 15:140, 35:101:02, 35:195, 35:211, 44:185, 54:34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                         | 385 bp |               | *51:51                                                                                                                                                                                               | <b>C*01:83<sup>w</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>45</b>               | 145 bp | 1070 bp       | *51:178N                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                         | 190 bp |               | *51:52                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>46<sup>5</sup></b>   | 80 bp  | <b>800 bp</b> | *51:57                                                                                                                                                                                               | *07:206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                         | 170 bp |               | *51:123                                                                                                                                                                                              | *55:59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>47<sup>5</sup></b>   | 125 bp | <b>800 bp</b> | *51:20                                                                                                                                                                                               | *07:65, 07:134, 08:32, 18:03, 35:29:01-35:29:02, 35:69, 35:76, 35:136, 35:186 <sup>w</sup> , 35:229, 35:294, 37:37, 39:19:01-39:19:02, 46:40:01 <sup>w</sup> -46:40:02 <sup>w</sup> , 53:23, 56:06, 56:45, 78:01:01-78:01:02, 78:03, 78:07-78:08                                                                                                                                                                                                                                                                                                                                               |
| <b>48<sup>5</sup></b>   | 95 bp  | 1070 bp       | *51:37, 51:90, 51:92:01-51:92:02                                                                                                                                                                     | *07:84, 13:04, 13:35, 13:72, 15:04:01-15:04:02, 15:16:01-15:16:03, 15:67, 15:95, 15:155, 15:222, 15:254, 15:293, 15:310, 15:362, 35:37, 35:235, 35:265, 40:44, 40:159, 41:21, 44:20, 44:47, 44:100, 44:197, 45:09, 46:32, 49:04:01-49:05, 50:33, 50:39, 52:12, 52:26, 54:14-54:16, 55:23, 55:27,                                                                                                                                                                                                                                                                                               |



101.561-24/03 – including *Taq* pol., IFU-01  
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|           |        |         |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|--------|---------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | 220 bp |         | *51:61:01-51:61:02                                                                                                                     | 55:46, 55:68<br>*13:31, 13:41, 15:04:01-15:04:02, 15:137,<br>15:303, 35:265, 46:32, 52:21, 54:33, 55:21,<br>56:43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>49</b> | 160 bp | 1070 bp | *51:01:02, 51:01:09,<br>51:02:02, 51:05,<br>51:07:02, 51:09:02,<br>51:15, 51:54, 51:78:02,<br>51:93, 51:132, 51:144,<br>51:148, 51:180 | *07:56:01-07:56:02, 07:72, 08:26:01-<br>08:26:02, 08:56:01-08:56:02, 15:02:01-<br>15:02:09, 15:08:01-15:08:02, 15:11:01-<br>15:11:06, 15:13:01-15:13:02, 15:15, 15:21,<br>15:31, 15:44, 15:55, 15:76, 15:88-15:89,<br>15:112, 15:121, 15:139, 15:143-15:144,<br>15:148, 15:170, 15:189, 15:191, 15:194,<br>15:209N, 15:213-15:215, 15:223, 15:265,<br>15:283-15:284, 15:291, 15:297, 15:301-<br>15:303, 15:305, 15:308, 15:319, 15:325,<br>15:328, 15:330, 15:341, 15:357-15:358,<br>18:29, 18:98, 35:01:01:01-35:02:05,<br>35:02:07-35:08:04, 35:08:06-35:09:03,<br>35:11:01-35:12:03, 35:14:01-35:15:02,<br>35:17:01-35:24:02, 35:26-35:27, 35:29:01-<br>35:42:01, 35:43:01-35:62, 35:64:01-<br>35:68:02, 35:70-35:72, 35:74-35:79, 35:81-<br>35:83, 35:85-35:89, 35:91-35:123, 35:126-<br>35:141, 35:143-35:149, 35:151-35:161,<br>35:163-35:183, 35:187-35:190, 35:192-<br>35:200, 35:202-35:206, 35:208-35:216N,<br>35:218-35:225, 35:227-35:266, 35:268-<br>35:269, 35:271-35:282, 35:285-35:296,<br>38:28, 42:21, 53:01:01-53:05, 53:07-53:16,<br>53:18-53:27, 53:29-53:37, 53:39, 54:01:01-<br>54:20, 54:22-54:24, 54:25 <sup>w</sup> , 54:26-54:34,<br>55:01:01-55:05, 55:07-55:09, 55:11-55:17,<br>55:19-55:33, 55:35, 55:37-55:39, 55:41-<br>55:46, 55:47 <sup>w</sup> , 55:48-55:71, 55:73-55:75,<br>56:01:01:01-56:04, 56:05:02, 56:07, 56:09-<br>56:13, 56:15, 56:17-56:35, 56:37-56:49,<br>59:01:01:01-59:09, 78:02:01, 78:04 |
| <b>50</b> | 155 bp | 1070 bp | *51:81                                                                                                                                 | *07:02:01-07:02:13, 07:02:15-07:02:19,<br>07:02:21-07:02:34, 07:02:36-07:02:38,<br>07:02:40-07:06, 07:08-07:11, 07:13, 07:15-<br>07:17, 07:19-07:21, 07:23-07:67N,<br>07:68:03-07:76, 07:79-07:83, 07:85-07:99,<br>07:101-07:136:02, 07:138-07:161N, 07:164-<br>07:192, 07:194-07:195, 07:199-07:213,<br>07:215-07:224, 07:226, 07:228-07:234,<br>07:236, 07:238, 07:240-07:247, 07:249,<br>07:251N-07:254, 07:256, 08:01:02,<br>08:01:13, 08:20, 08:53:02, 08:79, 13:71,<br>27:07:01-27:07:04, 27:11, 27:24, 27:32-<br>27:34, 27:43, 27:138, 35:31, 35:114, 37:07,<br>37:09, 40:02:01-40:02:19, 40:02:21-40:03,<br>40:05, 40:08-40:09, 40:13, 40:15-40:16,<br>40:18-40:19, 40:24, 40:27:01-40:27:02,<br>40:29, 40:31-40:32, 40:35:01, 40:37, 40:39-<br>40:40, 40:45, 40:50, 40:56-40:58, 40:80,<br>40:82, 40:85, 40:89-40:91, 40:94,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|-----------------------|----------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                            |               | 40:97-40:98, 40:104-40:105, 40:107, 40:111, 40:115, 40:119, 40:122, 40:133Q, 40:142N-40:145, 40:157, 40:164, 40:169, 40:173-40:174, 40:176, 40:180-40:181, 40:189, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224, 40:226, 40:229, 40:232, 40:246, 40:248, 40:254-40:255, 40:266-40:267, 40:271, 40:274, 40:276, 40:283-40:284, 40:287, 40:289-40:293, 40:296-40:297, 40:302-40:305, 40:309, 48:01:01-48:01:06, 48:04:01-48:11, 48:13, 48:15-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:37, 55:04, 55:49, 58:27, 81:01-81:07, <b>C*02:60, C*03:05, C*03:25, C*03:27, C*03:167, C*07:294, C*08:08:01-08:08:02</b> |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>51<sup>5</sup></b> | 85 bp<br>135 bp<br>215 bp  | <b>800 bp</b> | *51:68<br>*51:136<br>*51:72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>52</b>             | 160 bp                     | 1070 bp       | *51:69, 51:107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | *18:65, 52:30                                                                                                                                                                                                                                                                                                                                                                          |
| <b>53</b>             | 135 bp<br>165 bp<br>260 bp | 1070 bp       | *51:136<br>*51:71, 51:174<br>*51:70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>54<sup>5</sup></b> | 120 bp                     | 1070 bp       | *51:74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *35:46-35:47, 35:154, 35:207, 35:217, 35:257, 35:278, 40:07-40:08, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232, 53:30                                                                                                                                                                                                                                                                 |
| <b>55<sup>5</sup></b> | 250 bp<br>75 bp<br>200 bp  | 1070 bp       | *51:124, 51:156<br>*51:77<br>*51:75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>56</b>             | 380 bp                     | 1070 bp       | *51:01:01:01-51:01:07, 51:01:09-51:01:14, 51:01:16-51:01:39, 51:01:41-51:01:42, 51:01:44-51:12, 51:16-51:24:05, 51:26-51:36, 51:38-51:41N, 51:43-51:44N, 51:46, 51:48-51:49, 51:51-51:53, 51:55-51:61:02, 51:64-51:77, 51:79-51:84, 51:86-51:89, 51:91, 51:93-51:96, 51:98N-51:105, 51:107-51:134, 51:136-51:156, 51:158:01-51:171, 51:173Q-51:181, 51:183-51:190                                                                                                                                                                                                                                                                             | *08:03, 08:52, 08:78, 15:361, 27:102, 40:13, 40:19, 40:109, 40:117, 40:292, 48:18, 49:18, 52:01:01:01-52:01:24, 52:01:27-52:11, 52:13, 52:15-52:19, 52:21-52:24, 52:27-52:38, 52:40-52:45, 52:47-52:50, 53:19, 56:21, 57:02:01-57:03:02, 57:05, 57:07, 57:09, 57:17, 57:39, 57:42, 57:46, 57:57, 57:63, 57:66, 57:70, 58:08:01-58:08:02, 58:27-58:28:02, 58:65, 59:02, <b>A*24:146</b> |
| <b>57</b>             | 145 bp<br>210 bp           | 1070 bp       | *51:79, 51:178N<br>*51:54, 51:78:01-51:78:02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *13:17, 13:33, 15:36, 15:89, 15:256, 15:339, 44:02:10, 44:34:01-44:34:02, 44:83, 52:20, 53:09, 53:11-53:13, 53:31, 53:36, 53:38, 56:07, 59:08                                                                                                                                                                                                                                          |
| <b>58<sup>8</sup></b> | 170 bp                     | 1070 bp       | *51:80, 51:107, 51:168                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |

101.561-24/03 – including *Taq* pol., IFU-01  
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|-------------------------|---------------------------|---------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>59<sup>5</sup></b>   | 120 bp<br>240 bp          | 1070 bp       | *51:83<br>*51:88                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>60<sup>5,8</sup></b> | 85 bp<br>190 bp           | <b>800 bp</b> | *51:94<br>*51:84, 51:130                   | *49:12                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>61<sup>5</sup></b>   | 100 bp                    | 1070 bp       | *51:85                                     | *27:14, 27:81, 44:20, 44:47, 44:100, 44:197,<br>50:20, 52:26                                                                                                                                                                                                                                                                                                                                                                                              |
|                         | 210 bp                    |               | *51:87, 51:115, 51:181                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>62</b>               | 180 bp<br>250 bp          | 1070 bp       | *51:86, 51:132<br>*51:95                   | *39:57                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>63<sup>5</sup></b>   | 70 bp<br>200 bp           | 1070 bp       | *51:91<br>*51:146                          | *35:02:01-35:02:07, 35:81, 35:83, 35:95,<br>35:129N, 35:146, 35:154, 35:162, 35:172,<br>35:182-35:184, 35:211, 35:220, 35:258,<br>35:270, 35:273, 35:285, 45:12, 50:36, 53:19,<br>53:36, 58:65                                                                                                                                                                                                                                                            |
| <b>64<sup>5</sup></b>   | 115 bp<br>170 bp          | 1070 bp       | *51:67<br>*51:66, 51:89                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>65</b>               | 185 bp<br>215 bp          | 1070 bp       | *51:98N<br>*51:103, 51:116, 51:151         | *08:62, 18:07:01-18:07:02, 18:29, 18:79,<br>27:23, 35:50, 35:84, 35:162, 35:217, 35:231,<br>35:280, 37:21, 40:07-40:08, 40:13, 40:68,<br>40:106, 40:162, 40:220, 40:232                                                                                                                                                                                                                                                                                   |
| <b>66</b>               | 175 bp<br>210 bp          | 1070 bp       | *51:109, 51:132<br>*51:120                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>67<sup>5</sup></b>   | 110 bp<br>230 bp          | 1070 bp       | *51:93, 51:122<br>*51:100                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>68</b>               | 160 bp<br>190 bp          | 1070 bp       | *51:134<br>*51:105                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>69<sup>5</sup></b>   | 105 bp<br>225 bp          | 1070 bp       | *51:147<br>*51:110N                        | <b>A*02:01:33<sup>w</sup>, A*23:01:14<sup>w</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>70</b>               | 160 bp                    | 1070 bp       | *51:111, 51:134                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>71</b>               | 185 bp                    | 1070 bp       | *51:117, 51:130                            | *49:12                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>72<sup>5</sup></b>   | 90 bp<br>145 bp<br>170 bp | 1070 bp       | *51:118N<br>*51:169<br>*51:164             | *39:46 <sup>w</sup> , 44:118 <sup>w</sup>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>73</b>               | 170 bp<br>295 bp          | 1070 bp       | *51:127, 51:174<br>*51:149N                | *55:43                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>74</b>               | 180 bp                    | 1070 bp       | *51:157                                    | *13:06, 13:53, 15:42, 15:86, 15:224, 35:60,<br>46:18, 54:01:01-54:02, 54:05N, 54:07-<br>54:08N, 54:10, 54:12-54:13, 54:17-54:25,<br>54:27-54:32, 54:34, 55:01:01-55:03, 55:05,<br>55:07, 55:10-55:12, 55:15-55:16, 55:18-<br>55:19, 55:21, 55:25-55:26, 55:29-55:31,<br>55:33-55:40, 55:42-55:45, 55:47-55:48,<br>55:50, 55:52-55:57, 55:59-55:67, 55:69-<br>55:71, 55:73-55:75, 56:10, 56:23,<br>59:01:01:01-59:01:01:02, 59:05-59:08,<br><b>C*01:90</b> |
| <b>75<sup>5,7</sup></b> | 95 bp                     | 1070 bp       | *51:56:01-51:56:03,<br>51:158:01-51:158:02 | *35:01:10, 35:04:02, 40:28, 49:18, 50:14,<br>53:28, 55:01:04, <b>C*02:02:23, C*12:03:31</b>                                                                                                                                                                                                                                                                                                                                                               |
| <b>76</b>               | 175 bp<br>255 bp          | 1070 bp       | *51:168<br>*51:152, 51:173Q                |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>77</b>               | 265 bp                    | 1070 bp       | *51:160                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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|-----------------------|--------|---------------|-------------------------|--------|
| <b>78</b>             | 190 bp | <b>800 bp</b> | *51:184N                |        |
| <b>79</b>             | 235 bp | 1070 bp       | *51:187                 | *53:20 |
| <b>80<sup>9</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\*51 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers, e.g. the primers in wells number 4, 5, 6, 7, 8, 9, 15, 17, 18 and 19 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\*51 alleles will be amplified by primer mixes 1 to 3, 5 to 11, 14 to 32, 34 to 36, 38 to 41, 44, 46 to 50, 52, 54, 56, 57, 60 to 63, 65, 71 to 75 and 79. In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 5, 7, 16, 24, 27, 30, 32, 34, 35, 38, 41, 44, 50, 56, 69, 74 and 75.

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

<sup>6</sup>Primer mixes 3, 6 and 30 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*51 primer mixes.

<sup>7</sup>Primer mixes 25, 30, 39, 41 and 75 may have tendencies of unspecific amplifications.

<sup>8</sup>Primer mixes 27, 39, 58 and 60 have a tendency to giving rise to primer oligomer formation.

<sup>9</sup>Primer mix 80 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

‘w’, might be weakly amplified.

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

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## PRIMER SPECIFICATION

| Well No.                                 | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12                |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|
| Length of spec. PCR product              | 105       | 95        | 265       | 255       | 270       | 210       | 240       | 105       | 85        | 160       | 245       | 495               |
| Length of int. pos. control <sup>1</sup> | 800       | 1070      | 1070      | 1070      | 1070      | 800       | 1070      | 800       | 1070      | 1070      | 1070      | 1070              |
| 5'-primer(s) <sup>2</sup>                | 206       | 527       | 357       | 357       | 355       | 357       | 355       | 206       | 408       | 357       | 357       | 3 <sup>rd</sup> I |
|                                          | 5'-gAC 3' | 5'-TgA 3' | 5'-Tgg 3' | 5'-Tgg 3' | 5'-TCA 3' | 5'-Tgg 3' | 5'-CCC 3' | 5'-gAC 3' | 5'-ggT 3' | 5'-Tgg 3' | 5'-Tgg 3' | 5'-CTT 3'         |
|                                          |           |           |           |           |           |           | 385       |           | 431       |           |           |                   |
|                                          |           |           |           |           |           |           | 5'-ggA 3' |           | 5'-CgA 3' |           |           |                   |
|                                          |           |           |           |           |           |           |           |           | 540       |           |           |                   |
|                                          |           |           |           |           |           |           |           |           | 5'-gAC 3' |           |           |                   |
| 3'-primer(s) <sup>3</sup>                | 272       | 583       | 583       | 571       | 583       | 527       | 583       | 272       | 583       | 477       | 559       | 621               |
|                                          | 5'-TgA 3' | 5'-gTg 3' | 5'-gTA 3' | 5'-CCC 3' | 5'-gTg 3' | 5'-CCA 3' | 5'-gTg 3' | 5'-Tgg 3' | 5'-gTg 3' | 5'-gCg 3' | 5'-CTC 3' | 5'-ggg 3'         |
|                                          |           |           |           |           |           | 527       |           |           |           | 559       |           |                   |
|                                          |           |           |           |           |           | 5'-CCA 3' |           |           |           | 5'-CgT 3' |           |                   |
| Well No.                                 | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12                |

| Well No.                                 | 13        | 14        | 15        | 16        | 17        | 18        | 19        | 20        | 21        | 22        | 23        | 24        |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec. PCR product              | 200       | 105       | 100       | 170       | 105       | 140       | 145       | 110       | 130       | 160       | 210       | 210       |
|                                          |           |           | 230       | 195       |           | 220       |           | 200       | 185       |           |           |           |
| Length of int. pos. control <sup>1</sup> | 1070      | 1070      | 800       | 1070      | 800       | 800       | 800       | 1070      | 1070      | 1070      | 1070      | 1070      |
| 5'-primer(s) <sup>2</sup>                | 165       | 357       | 357       | 404       | 206       | 141       | 357       | 141       | 357       | 141       | 141       | 141       |
|                                          | 5'-ACC 3' | 5'-Tgg 3' | 5'-Tgg 3' | 5'-CCC 3' | 5'-gAC 3' | 5'-ATT 3' | 5'-Tgg 3' | 5'-ATT 3' | 5'-Tgg 3' | 5'-ATT 3' | 5'-ATT 3' | 5'-ATT 3' |
|                                          |           |           |           | 420       |           | 357       |           |           |           |           |           |           |
|                                          |           |           |           | 5'-TTA 3' |           | 5'-Tgg 3' |           |           |           |           |           |           |
|                                          |           |           |           | 431       |           |           |           |           |           |           |           |           |
|                                          |           |           |           | 5'-CgA 3' |           |           |           |           |           |           |           |           |
| 3'-primer(s) <sup>3</sup>                | 322       | 419       | 414       | 559       | 272       | 242       | 463       | 211       | 445       | 259       | 311       | 309       |
|                                          | 5'-gTC 3' | 5'-CgA 3' | 5'-TgT 3' | 5'-CAg 3' | 5'-TgC 3' | 5'-CCC 3' | 5'-gCg 3' | 5'-ggT 3' | 5'-ggA 3' | 5'-gTT 3' | 5'-ggT 3' | 5'-ATC 3' |
|                                          |           |           | 544       |           |           | 538       |           | 302       | 502       |           |           |           |
|                                          |           |           | 5'-ggT 3' |           |           | 5'-gTC 3' |           | 5'-ggC 3' | 5'-CTA 3' |           |           |           |
|                                          |           |           | 544       |           |           |           |           |           |           |           |           |           |
|                                          |           |           | 5'-ggT 3' |           |           |           |           |           |           |           |           |           |
| Well No.                                 | 13        | 14        | 15        | 16        | 17        | 18        | 19        | 20        | 21        | 22        | 23        | 24        |

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **0D3**

Lot-specific information

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| Well No.                  | 25         | 26        | 27         | 28        | 29        | 30         | 31        | 32        | 33        | 34        | 35        | 36        |
|---------------------------|------------|-----------|------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec.           | 120        | 105       | 140        | 205       | 245       | 105        | 105       | 165       | 195       | 260       | 225       | 110       |
| PCR product               | 175        | 155       | 205        | 255       |           |            | 225       |           |           |           |           | 215       |
|                           | 205        |           | 270        |           |           |            |           |           |           |           |           |           |
|                           |            |           | 345        |           |           |            |           |           |           |           |           |           |
| Length of int.            | <b>800</b> | 1070      | <b>800</b> | 1070      | 1070      | <b>800</b> | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      |
| pos. control <sup>1</sup> |            |           |            |           |           |            |           |           |           |           |           |           |
| 5'-primer(s) <sup>2</sup> | 357        | 357       | 49         | 49        | 357       | 369        | 357       | 435       | 141       | 355       | 355       | 133       |
|                           | 5'-Tgg 3'  | 5'-Tgg 3' | 5'-CAg 3'  | 5'-CAg 3' | 5'-Tgg 3' | 5'-TAC 3'  | 5'-Tgg 3' | 5'-AAA 3' | 5'-ATT 3' | 5'-TCA 3' | 5'-TCA 3' | 5'-CCg 3' |
|                           | 652        | 756       | 355        | 357       |           | 369        |           |           |           |           |           | 704       |
|                           | 5'-CCg 3'  | 5'-ACT 3' | 5'-TCA 3'  | 5'-Tgg 3' |           | 5'-TAC 3'  |           |           |           |           |           | 5'-TgT 3' |
|                           |            |           | 485        |           |           |            |           |           |           |           |           |           |
|                           |            |           | 5'-CAA 3'  |           |           |            |           |           |           |           |           |           |
| 3'-primer(s) <sup>3</sup> | 445        | 419       | 83         | 83        | 559       | 435        | 419       | 559       | 295       | 572       | 538       | 309       |
|                           | 5'-ggA 3'  | 5'-Cgg 3' | 5'-TgA 3'  | 5'-TgA 3' | 5'-CAg 3' | 5'-TCT 3'  | 5'-Cgg 3' | 5'-CTC 3' | 5'-TCA 3' | 5'-gCg 3' | 5'-gTC 3' | 5'-ATC 3' |
|                           | 523        | 419       | 226        | 572       | 559       |            | 419       |           |           |           |           | 774       |
|                           | 5'-ACA 3'  | 5'-CgA 3' | 5'-CAC 3'  | 5'-gCg 3' | 5'-CAg 3' |            | 5'-CgA 3' |           |           |           |           | 5'-ggT 3' |
|                           | 727        | 872       | 583        |           |           |            | 539       |           |           |           |           |           |
|                           | 5'-CCA 3'  | 5'-TCA 3' | 5'-gTg 3'  |           |           |            | 5'-TCC 3' |           |           |           |           |           |
|                           | 787        |           |            |           |           |            |           |           |           |           |           |           |
|                           | 5'-TCC 3'  |           |            |           |           |            |           |           |           |           |           |           |
| Well No.                  | 25         | 26        | 27         | 28        | 29        | 30         | 31        | 32        | 33        | 34        | 35        | 36        |

| Well No.                  | 37        | 38        | 39        | 40        | 41        | 42         | 43         | 44         | 45        | 46         | 47         | 48        |
|---------------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|-----------|------------|------------|-----------|
| Length of spec.           | 165       | 205       | 250       | 185       | 225       | 100        | 115        | 285        | 145       | 80         | 125        | 95        |
| PCR product               | 225       | 250       |           |           | 305       | 135        | 215        | 385        | 190       | 170        |            | 220       |
|                           |           |           |           |           | 380       |            |            |            |           |            |            |           |
| Length of int.            | 1070      | 1070      | 1070      | 1070      | 1070      | <b>800</b> | <b>800</b> | <b>800</b> | 1070      | <b>800</b> | <b>800</b> | 1070      |
| pos. control <sup>1</sup> |           |           |           |           |           |            |            |            |           |            |            |           |
| 5'-primer(s) <sup>2</sup> | 141       | 374       | 362       | 165       | 357       | 106        | 141        | 106        | 141       | 103        | 209        | 357       |
|                           | 5'-ATT 3' | 5'-CTA 3' | 5'-gAC 3' | 5'-ACC 3' | 5'-Tgg 3' | 5'-CCA 3'  | 5'-ATT 3'  | 5'-CCA 3'  | 5'-ATT 3' | 5'-CCT 3'  | 5'-ggA 3'  | 5'-Tgg 3' |
|                           | 357       | 419       | 363       |           | 670       | 488        |            | 667        |           | 357        |            |           |
|                           | 5'-Tgg 3' | 5'-gTC 3' | 5'-AgC 3' |           | 5'-CCT 3' | 5'-Cgg 3'  |            | 5'-AgA 3'  |           | 5'-Tgg 3'  |            |           |
|                           |           |           | 383       |           | 736       |            |            | 754        |           |            |            |           |
|                           |           |           | 5'-ggA 3' |           | 5'-gCA 3' |            |            | 5'-ACg 3'  |           |            |            |           |
|                           |           |           |           |           | 754       |            |            |            |           |            |            |           |
|                           |           |           |           |           | 5'-ACg 3' |            |            |            |           |            |            |           |
| 3'-primer(s) <sup>3</sup> | 265       | 583       | 583       | 309       | 539       | 163        | 214        | 343        | 244       | 141        | 292        | 412       |
|                           | 5'-CTA 3' | 5'-gTg 3' | 5'-gTg 3' | 5'-ATC 3' | 5'-TCC 3' | 5'-ggC 3'  | 5'-CCA 3'  | 5'-T 3'    | 5'-CTA 3' | 5'-gCA 3'  | 5'-gTC 3'  | 5'-gTC 3' |
|                           | 539       |           |           |           | 916       | 583        | 314        | 916        | 292       | 487        | 292        | 412       |
|                           | 5'-TCT 3' |           |           |           | 5'-gAT 3' | 5'-gTg 3'  | 5'-gCC 3'  | 5'-gAT 3'  | 5'-gTg 3' | 5'-Cgg 3'  | 5'-gTC 3'  | 5'-gTC 3' |
|                           |           |           |           |           |           |            |            |            |           |            |            | 538       |
|                           |           |           |           |           |           |            |            |            |           |            |            | 5'-CCA 3' |
| Well No.                  | 37        | 38        | 39        | 40        | 41        | 42         | 43         | 44         | 45        | 46         | 47         | 48        |

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **0D3**

Lot-specific information

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| Well No.                                 | 49        | 50        | 51        | 52        | 53        | 54        | 55        | 56        | 57        | 58        | 59        | 60        |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec.                          | 160       | 155       | 85        | 160       | 135       | 120       | 75        | 380       | 145       | 170       | 120       | 85        |
| PCR product                              |           |           | 135       |           | 165       | 250       | 200       |           | 210       |           | 240       | 190       |
|                                          |           |           | 215       |           | 260       |           |           |           |           |           |           |           |
| Length of int. pos. control <sup>1</sup> | 1070      | 1070      | 800       | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 800       |
| 5'-primer(s) <sup>2</sup>                | 142       | 363       | 97        | 454       | 357       | 193       | 141       | 317       | 141       | 448       | 141       | 357       |
|                                          | 5'-TCg 3' | 5'-AgC 3' | 5'-TCg 3' | 5'-ACC 3' | 5'-Tgg 3' | 5'-CCA 3' | 5'-ATT 3' | 5'-gCT 3' | 5'-ATT 3' | 5'-CCA 3' | 5'-ATT 3' | 5'-Tgg 3' |
|                                          |           |           | 357       | 475       |           | 368       | 357       |           | 142       | 454       | 357       |           |
|                                          |           |           | 5'-Tgg 3' | 5'-CCA 3' |           | 5'-gTg 3' | 5'-Tgg 3' |           | 5'-TCg 3' | 5'-ACC 3' | 5'-Tgg 3' |           |
|                                          |           |           |           |           |           | 385       |           |           |           | 457       |           |           |
|                                          |           |           |           |           |           | 5'-ggA 3' |           |           |           | 5'-AgC 3' |           |           |
| 3'-primer(s) <sup>3</sup>                | 259       | 477       | 141       | 583       | 453       | 272       | 177       | 412       | 244       | 583       | 218       | 403       |
|                                          | 5'-gTT 3' | 5'-gCg 3' | 5'-gCA 3' | 5'-gTg 3' | 5'-TCT 3' | 5'-TgA 3' | 5'-AAA 3' | 5'-gTT 3' | 5'-CTA 3' | 5'-gTg 3' | 5'-gCC 3' | 5'-gCA 3' |
|                                          | 259       |           | 453       |           | 479       | 583       | 514       |           | 246       |           | 555       | 505       |
|                                          | 5'-gTT 3' |           | 5'-TCT 3' |           | 5'-CgA 3' | 5'-gTg 3' | 5'-CTg 3' |           | 5'-TAA 3' |           | 5'-CCg 3' | 5'-gCC 3' |
|                                          |           |           | 530       |           | 481       |           |           |           | 309       |           |           | 505       |
|                                          |           |           | 5'-CCT 3' |           | 5'-gTg 3' |           |           |           | 5'-gTg 3' |           |           | 5'-gCT 3' |
|                                          |           |           |           |           | 578       |           |           |           |           |           |           |           |
|                                          |           |           |           |           | 5'-TgA 3' |           |           |           |           |           |           |           |
| Well No.                                 | 49        | 50        | 51        | 52        | 53        | 54        | 55        | 56        | 57        | 58        | 59        | 60        |

| Well No.                                 | 61        | 62        | 63        | 64        | 65        | 66        | 67        | 68        | 69        | 70        | 71        | 72        |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec.                          | 100       | 180       | 70        | 115       | 185       | 175       | 110       | 160       | 105       | 160       | 185       | 90        |
| PCR product                              | 210       | 250       | 200       | 170       | 215       | 210       | 230       | 190       | 225       |           |           | 145       |
|                                          |           |           |           |           |           |           |           |           |           |           |           | 170       |
| Length of int. pos. control <sup>1</sup> | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      |
| 5'-primer(s) <sup>2</sup>                | 357       | 357       | 397       | 138       | 97        | 357       | 141       | 121       | 141       | 154       | 357       | 267       |
|                                          | 5'-Tgg 3' | 5'-Tgg 3' | 5'-gCT 3' | 5'-TTg 3' | 5'-TCC 3' | 5'-Tgg 3' | 5'-ATT 3' | 5'-gCT 3' | 5'-ATT 3' | 5'-ACA 3' | 5'-Tgg 3' | 5'-Ag 3'  |
|                                          |           |           | 411       | 145       | 127       |           | 435       | 154       |           | 155       |           | 646       |
|                                          |           |           | 5'-CAA 3' | 5'-CAA 3' | 5'-ggT 3' |           | 5'-AAA 3' | 5'-ACA 3' |           | 5'-CgC 3' |           | 5'-ACg 3' |
|                                          |           |           | 529       | 200       |           |           |           |           |           |           |           | 670       |
|                                          |           |           | 5'-AgA 3' | 5'-TCg 3' |           |           |           |           |           |           |           | 5'-CCT 3' |
| 3'-primer(s) <sup>3</sup>                | 418       | 493       | 559       | 272       | 272       | 488       | 331       | 272       | 206       | 272       | 494       | 317       |
|                                          | 5'-gTC 3' | 5'-CCT 3' | 5'-CAg 3' | 5'-TgA 3' | 5'-TgA 3' | 5'-CCA 3' | 5'-CTC 3' | 5'-TgA 3' | 5'-CCA 3' | 5'-TgA 3' | 5'-TCg 3' | 5'-ggA 3' |
|                                          | 527       | 496       |           |           |           | 496       | 506       |           | 327       |           | 505       | 774       |
|                                          | 5'-CCg 3' | 5'-gAC 3' |           |           |           | 5'-gAC 3' | 5'-TgA 3' |           | 5'-TTC 3' |           | 5'-gCT 3' | 5'-ggT 3' |
|                                          | 528       | 565       |           |           |           | 526       |           |           |           |           |           |           |
|                                          | 5'-gCA 3' | 5'-CAT 3' |           |           |           | 5'-CTT 3' |           |           |           |           |           |           |
| Well No.                                 | 61        | 62        | 63        | 64        | 65        | 66        | 67        | 68        | 69        | 70        | 71        | 72        |



101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **0D3**

Lot-specific information

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| Well No.                                 | 73         | 74         | 75         | 76         | 77                | 78         | 79         |
|------------------------------------------|------------|------------|------------|------------|-------------------|------------|------------|
| Length of spec. PCR product              | 170        | 180        | 95         | 175        | 265               | 190        | 235        |
|                                          | 295        |            |            | 255        |                   |            |            |
| Length of int. pos. control <sup>1</sup> | 1070       | 1070       | 1070       | 1070       | 1070              | 800        | 1070       |
| 5'-primer(s) <sup>2</sup>                | 357        | 420        | 379        | 362        | 266               | 166        | 77         |
|                                          | 5' -Tgg 3' | 5' -TTA 3' | 5' -ACC 3' | 5' -gAA 3' | 5' -ACg 3'        | 5' -CCT 3' | 5' -CTT 3' |
|                                          |            |            | 379        | 374        |                   |            |            |
|                                          |            |            | 5' -ACT 3' | 5' -CTA 3' |                   |            |            |
|                                          |            |            |            | 448        |                   |            |            |
|                                          |            |            |            | 5' -CCA 3' |                   |            |            |
| 3'-primer(s) <sup>3</sup>                | 479        | 559        | 435        | 583        | 2 <sup>nd</sup> I | 317        | 272        |
|                                          | 5' -CgA 3' | 5' -CgT 3' | 5' -TCT 3' | 5' -gTg 3' | 5' -TCg 3'        | 5' -ggA 3' | 5' -TgA 3' |
|                                          | 487        |            |            |            |                   |            |            |
|                                          | 5' -CgT 3' |            |            |            |                   |            |            |
|                                          | 610        |            |            |            |                   |            |            |
|                                          | 5' -C.g 3' |            |            |            |                   |            |            |
| Well No.                                 | 73         | 74         | 75         | 76         | 77                | 78         | 79         |

<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.

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot-specific information

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| CELL LINE VALIDATION SHEET  |      |            |        |                   |           |           |           |           |           |           |           |           |           |           |           |
|-----------------------------|------|------------|--------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*51 SSP subtyping kit  |      |            |        |                   |           |           |           |           |           |           |           |           |           |           |           |
|                             |      |            |        | Well <sup>2</sup> |           |           |           |           |           |           |           |           |           |           |           |
|                             |      |            |        | 1                 | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        |
|                             |      |            |        | 13                | 14        | 15        | 16        | 17        | 18        | 19        | 20        | 21        | 22        | 23        | 24        |
| Prod. No.:                  |      |            |        | 201444501         | 201444502 | 201444503 | 201558504 | 201444505 | 201444506 | 201444507 | 201444508 | 201558509 | 201444510 | 201444511 | 201444512 |
|                             |      |            |        | 201444513         | 201444514 | 201444515 | 201444516 | 201444517 | 201444518 | 201444519 | 201444520 | 201444521 | 201444522 | 201444523 | 201444524 |
| 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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For *In Vitro* Diagnostic Use.

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **0D3**

Lot-specific information

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| CELL LINE VALIDATION SHEET |                             |            |        |        |            |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|----------------------------|-----------------------------|------------|--------|--------|------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*51 SSP subtyping kit |                             |            |        |        |            |                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                            |                             |            |        |        | Prod. No.: | Well <sup>2</sup> |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                            |                             |            |        |        |            | 33                | 34        | 35        | 36        | 37        | 38        | 39        | 40        | 41        | 42        | 43        | 44        | 45        | 46        | 47        | 48        |
|                            |                             |            |        |        |            | 201444533         | 201444534 | 201444535 | 201444536 | 201444537 | 201558538 | 201444539 | 201444540 | 201444541 | 201444542 | 201444543 | 201444544 | 201444545 | 201444546 | 201444547 | 201444548 |
|                            | 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 |            | -                 | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **0D3**

Lot-specific information

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| CELL LINE VALIDATION SHEET  |      |            |        |                   |           |           |           |           |           |           |           |           |           |           |           |
|-----------------------------|------|------------|--------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*51 SSP subtyping kit  |      |            |        |                   |           |           |           |           |           |           |           |           |           |           |           |
|                             |      |            |        | Well <sup>2</sup> |           |           |           |           |           |           |           |           |           |           |           |
|                             |      |            |        | 49                | 50        | 51        | 52        | 53        | 54        | 55        | 56        | 57        | 58        | 59        | 60        |
|                             |      |            |        | 201444549         | 201444550 | 201444551 | 201444552 | 201558553 | 201444554 | 201444555 | 201444556 | 201444557 | 201558558 | 201444559 | 201444560 |
|                             |      |            |        | 201444561         | 201444562 | 201444563 | 201444564 |           |           |           |           |           |           |           |           |
| Prod. No.:                  |      |            |        |                   |           |           |           |           |           |           |           |           |           |           |           |
| 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            | +         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         |



**101.561-24/03 – including *Taq* pol., IFU-01**  
**101.561-24u/03u – without *Taq* pol., IFU-02**

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**Lot No.: 0D3**

**Lot-specific information**

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<sup>2</sup>The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 5, 13, 17, 20, 21, 25, 27, 32, 33, 36, 39, 42 to 46, 51 to 53, 55, 57 to 62, 64, 66 to 73 and 75 to 79 were available. The specificities of the primers in primer solutions 5, 17, 20, 27, 32, 39, 42, 44, 46, 51, 57, 61, 67, 75 and 77 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

In primer solutions 13, 21, 25, 33, 43, 45, 53, 55, 59, 60, 62, 66, 69, 71 and 73 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 36, 52, 58, 64, 68, 70, 72, 76, 78 and 79 it was only possible to test the 3'-primer, the 5'-primer was not possible to test. In primer solutions 7, 9, 16, 38, 39, 41, 42, 44, 54, 63, 65 and 75 one or two of the 5'-primers were not possible to test. In primer solution 15, 18, 20, 26 to 28, 42, 46, 51, 57, 61 and 67 one or two of the 3'-primers were not possible to test.

Additional primers in primer solutions 18, 26, 28 to 29, 31, 37, 41, 47, 48 and 54 were tested by separately adding one 5'-primer or one 3'-primer.



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