

101.565-12 – including *Taq* pol., IFU-01  
101.565-12u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for  
“Instructions for Use” (IFU)

Lot No.: **6H2**

Lot-specific information  
**Olerup SSP® HLA-B\*38**

|   |   |
|---|---|
| <b>Product number:</b>                  | 101.565-12 – including <i>Taq</i> polymerase<br>101.565-12u – without <i>Taq</i> polymerase |
| <b>Lot number:</b>                      | 6H2   |
| <b>Expiry date:</b>                     | 2021-10-01  |
| <b>Number of tests:</b>                 | 12  |
| <b>Number of wells per test:</b>        | 29+1  |
| <b>Storage - pre-aliquoted primers:</b> | dark at -20°C   |
| - PCR Master Mix:                       | -20°C   |
| - Adhesive PCR seals                    | RT  |
| - Product Insert                        | RT  |

**This Product Description is only valid for Lot No. 6H2.**

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\*38 LOT (6F7)**

The HLA-B\*38 kit is updated for new alleles to enable separation of:

- Null and Alternatively expressed alleles
- The product documentation has been updated for new alleles of IMGT 3.34.0.

The format of the Worksheet has been changed.

The HLA-B\*38 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*® HLA-B\*38 lot was made (**Lot No. 6F7**).

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

| Well | 5'-primer | 3'-primer | rationale  |
|------|-----------|-----------|--|
| 6    | -         | Modified  | 3'-primer modified for improved yield of the B*38:34N allele.                  |
| 7    | -         | Modified  | 3'-primer modified for improved yield of the B*38:34N allele.                  |
| 27   | Modified  | -         | 5'-primer modified and amount of control primers decreased for improved yield. |

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Well **30** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP<sup>®</sup> HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

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

| Length of PCR product        | 105                  | 200                     | 105                  | 80                   | 75                   | 80                   | 85                   |
|------------------------------|----------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>5'-primer<sup>1</sup></b> | <b>164</b>           | <b>340</b>              | <b>440</b>           | <b>45</b>            | <b>45</b>            | <b>43</b>            | <b>36</b>            |
|                              | 5'-CAC <sup>3'</sup> | 5'-Agg <sup>3'</sup>    | 5'-TTA <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-TAC <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>36</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-TAT <sup>3'</sup> |
| <b>3'-primer<sup>2</sup></b> | <b>231</b>           | <b>2<sup>nd</sup> I</b> | <b>507</b>           | <b>59</b>            | <b>58</b>            | <b>57</b>            | <b>47</b>            |
|                              | 5'-TgC <sup>3'</sup> | 5'-AAA <sup>3'</sup>    | 5'-TTg <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-ggC <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-ACA <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>48</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-gCA <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>48</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-gCC <sup>3'</sup> |
|                              |                      |                         |                      |                      |                      |                      | <b>52</b>            |
|                              |                      |                         |                      |                      |                      |                      | 5'-TgT <sup>3'</sup> |
| <b>A*</b>                    | <b>+</b>             | <b>+</b>                | <b>+</b>             |                      |                      |                      |                      |
| <b>B*</b>                    | <b>+</b>             | <b>+</b>                | <b>+</b>             |                      |                      |                      |                      |
| <b>C*</b>                    | <b>+</b>             | <b>+</b>                | <b>+</b>             |                      |                      |                      |                      |
| <b>DRB1</b>                  |                      |                         |                      | <b>+</b>             | <b>+</b>             |                      |                      |
| <b>DRB3</b>                  |                      |                         |                      | <b>+</b>             | <b>+</b>             |                      |                      |
| <b>DRB5</b>                  |                      |                         |                      | <b>+</b>             |                      |                      |                      |
| <b>DQB1</b>                  |                      |                         |                      |                      | <b>+</b>             |                      |                      |
| <b>DPB1</b>                  |                      |                         |                      |                      |                      | <b>+</b>             |                      |
| <b>DQA1</b>                  |                      |                         |                      |                      |                      |                      | <b>+</b>             |

<sup>1</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codon numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>2</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> exon or the 2<sup>nd</sup> intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

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Lot-specific information

## PRODUCT DESCRIPTION

### HLA-B\*38 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*38:01 to B\*38:79 alleles.

#### PLATE LAYOUT

Each test consists of 30 PCR reactions in a 32 well cut PCR plate. Wells 31 and 32 are empty.

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

The 32 well cut PCR plate is marked with ‘HLA-B\*38’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘6H2’.

Wells 1 to 29 – HLA-B\*38 high resolution primers.

Well 30 – 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.

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

#### INTERPRETATION

Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B\*38 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*38 alleles, i.e. **B\*38:01 to B\*38:79**, recognized by the HLA Nomenclature Committee in October 2018<sup>1,2</sup> are amplified by the primers in the HLA-B\*38 subtyping kit.

The HLA-B\*38 kit enables separation of the confirmed HLA-B\*38 alleles as listed in the IMGT/HLA database 3.29.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-B\*38 alleles is listed below.

The HLA-B\*38 kit also enables identification of null and alternatively expressed alleles.

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**Lot-specific information**

The following HLA-B\*38 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

| Alleles        | Primer mix |
|----------------|------------|
| B*38:11, 38:19 | 16         |

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2018-October-18, release 3.34.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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

**ALLELES CONFIRMATION STATUS**

| Allele            | Status <sup>1</sup> | Allele         | Status <sup>1</sup> | Allele         | Status <sup>1</sup> |
|-------------------|---------------------|----------------|---------------------|----------------|---------------------|
| B*38:01:01        | Confirmed           | B*38:14        | Unconfirmed         | B*38:44        | Unconfirmed         |
| B*38:01:02        | Unconfirmed         | <b>B*38:15</b> | <b>Confirmed</b>    | B*38:45        | Unconfirmed         |
| B*38:01:03        | Unconfirmed         | B*38:16        | Unconfirmed         | B*38:46        | Unconfirmed         |
| <b>B*38:01:04</b> | <b>Confirmed</b>    | B*38:17        | Unconfirmed         | B*38:47        | Unconfirmed         |
| <b>B*38:01:05</b> | <b>Confirmed</b>    | B*38:18        | Unconfirmed         | B*38:48        | Unconfirmed         |
| <b>B*38:01:06</b> | <b>Confirmed</b>    | B*38:19        | Unconfirmed         | B*38:49        | Unconfirmed         |
| B*38:01:07        | Unconfirmed         | <b>B*38:20</b> | <b>Confirmed</b>    | B*38:50        | Unconfirmed         |
| <b>B*38:01:08</b> | <b>Confirmed</b>    | B*38:21        | Unconfirmed         | B*38:51        | Unconfirmed         |
| B*38:01:09        | Unconfirmed         | B*38:22        | Unconfirmed         | B*38:52        | Unconfirmed         |
| B*38:01:10        | Unconfirmed         | B*38:23        | Unconfirmed         | B*38:53        | Unconfirmed         |
| B*38:01:11        | Unconfirmed         | <b>B*38:24</b> | <b>Confirmed</b>    | B*38:54        | Unconfirmed         |
| B*38:01:12        | Unconfirmed         | B*38:25        | Unconfirmed         | B*38:55Q       | Unconfirmed         |
| <b>B*38:02:01</b> | <b>Confirmed</b>    | B*38:26        | Unconfirmed         | B*38:56        | Unconfirmed         |
| <b>B*38:02:02</b> | <b>Confirmed</b>    | <b>B*38:27</b> | <b>Confirmed</b>    | B*38:57        | Unconfirmed         |
| B*38:02:03        | Unconfirmed         | <b>B*38:28</b> | <b>Confirmed</b>    | B*38:58        | Unconfirmed         |
| B*38:02:04        | Unconfirmed         | <b>B*38:29</b> | <b>Confirmed</b>    | B*38:59        | Unconfirmed         |
| <b>B*38:02:05</b> | <b>Confirmed</b>    | B*38:30        | Unconfirmed         | B*38:60        | Unconfirmed         |
| B*38:02:06        | Unconfirmed         | <b>B*38:31</b> | <b>Confirmed</b>    | <b>B*38:61</b> | <b>Confirmed</b>    |
| B*38:02:07        | Unconfirmed         | <b>B*38:32</b> | <b>Confirmed</b>    | B*38:62        | Unconfirmed         |
| B*38:03           | Unconfirmed         | <b>B*38:33</b> | <b>Confirmed</b>    | B*38:63        | Unconfirmed         |
| B*38:04           | Unconfirmed         | B*38:34N       | Unconfirmed         | <b>B*38:64</b> | <b>Confirmed</b>    |
| B*38:05           | Unconfirmed         | <b>B*38:35</b> | <b>Confirmed</b>    | B*38:65        | Unconfirmed         |
| <b>B*38:06</b>    | <b>Confirmed</b>    | <b>B*38:36</b> | <b>Confirmed</b>    | B*38:66        | Unconfirmed         |
| B*38:07           | Unconfirmed         | <b>B*38:37</b> | <b>Confirmed</b>    | B*38:67        | Unconfirmed         |
| B*38:08           | Unconfirmed         | B*38:38        | Unconfirmed         | B*38:68Q       | Unconfirmed         |
| <b>B*38:09</b>    | <b>Confirmed</b>    | B*38:39        | Unconfirmed         |                |                     |
| B*38:10           | Unconfirmed         | B*38:40        | Unconfirmed         |                |                     |
| <b>B*38:11</b>    | <b>Confirmed</b>    | B*38:41        | Unconfirmed         |                |                     |
| <b>B*38:12</b>    | <b>Confirmed</b>    | B*38:42        | Unconfirmed         |                |                     |
| <b>B*38:13</b>    | <b>Confirmed</b>    | B*38:43        | Unconfirmed         |                |                     |

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2017-August-10, release 3.29.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**RESOLUTION IN HOMO- AND HETEROZYGOTES**

Results file with resolution in HLA-B\*38 homo- and heterozygotes is available upon request.

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**SPECIFICITY TABLE**

**HLA-B\*38 SSP subtyping**

**Specificities and sizes of the PCR products of the 29+1 primer mixes used for HLA-B\*38 SSP subtyping**

| Primer Mix | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | Amplified HLA-B*38 alleles <sup>3</sup>  | Other amplified HLA-B alleles   |
|------------|--|-----------------------------------|--|---|
| 1          | 185 bp                                 | 800 bp                            | *38:01:01:01-38:01:07, 38:01:09-38:02:02, 38:02:04-38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:79     | *07:02:32, 07:85:02, 14:01:01:01-14:01:05, 14:01:07-14:01:09, 14:07N-14:08:02, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 14:40, 14:46-14:47, 14:49, 14:53-14:55, 14:65, 27:07:04 <sup>w</sup> , 39:01:01:01-39:01:01:09, 39:01:03:01-39:01:08, 39:01:10-39:02:01, 39:03:01:01-39:03:01:02, 39:05:01:01-39:06:02:04, 39:06:04-39:09:03, 39:11, 39:14:01:01-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:30, 39:31:01:01 <sup>w</sup> -39:31:01:02 <sup>w</sup> , 39:32-39:39:01, 39:40:01N-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73-39:75, 39:77, 39:79-39:82, 39:84-39:88, 39:90-39:91, 39:93-39:95N, 39:97N-39:98, 39:100, 39:102-39:104, 39:106-39:109, 39:111-39:125, 39:127, 39:128 <sup>w</sup> , 39:130, 39:132, 39:134-39:141, 67:01:01, 67:03-67:04, 67:06-67:07   |
| 2          | 190 bp                                 | 800 bp                            | *38:01:01:01-38:02:08, 38:04-38:12, 38:15, 38:17-38:25, 38:27, 38:29-38:40, 38:42-38:45, 38:47-38:79 | *07:16, 07:27, 07:37:01-07:38, 07:50, 07:75:01:01-07:75:01:02, 07:91, 07:180, 07:207, 07:219, 07:228:01-07:228:02, 07:306, 08:03, 08:23, 08:54:01-08:54:02, 08:110, 08:133, 08:139, 14:14, 14:18, 15:03:01:01-15:03:08, 15:09:01-15:10:04, 15:18:01:01-15:18:07, 15:23, 15:29, 15:37, 15:47:01-15:47:02, 15:49, 15:51-15:52, 15:54, 15:62, 15:64:01-15:64:02, 15:68-15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197:01-15:198, 15:200, 15:210, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242:01-15:243, 15:251:01-15:253, 15:263, 15:266, 15:274-15:275:02, 15:281-15:282, 15:290, 15:292-15:293, 15:306-15:307, 15:311-15:314, 15:323, 15:329, 15:335, 15:337-15:338, 15:351, 15:354, 15:369, 15:376, 15:379-15:380N, 15:382, 15:388-15:389, 15:414, 15:426-15:427, 15:429, 15:433-15:436, 15:439, 15:444-15:445, 15:447-15:448, 15:451, 15:455, 15:475, 18:01:01:01-18:01:01:16, 18:01:03-18:01:22, 18:01:24-18:02, 18:05:01:01-18:15, 18:17N-18:28, 18:30-18:79, 18:81-18:93, 18:95-18:97, 18:99-18:101, 18:103-18:106, 18:108-18:124, 18:126-18:131:01:02, 18:133-18:141, 18:143-18:151, 18:153-18:158, 35:25, 35:124-35:125, 35:142, 35:162, 35:267, 35:320, 37:01:01:01-37:01:11, 37:01:13-37:21, 37:23-37:36, 37:38-37:59, |

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|----------------------|------------------|---------------|--|--|
|                      |                  |               |  | 37:61-37:76, 39:05:01:01-39:05:03, 39:07-39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37, 39:49, 39:55-39:56, 39:113, 39:118, 40:12, 40:149, 41:22, 42:11, 44:130, 44:156, 44:221, 44:224, 44:258, 48:01:01:01-48:02:01, 48:02:03-48:47, 49:25, 51:116, 51:176, 51:179, 51:218, 52:16, 52:27, 52:77, 53:43, 57:58, 57:80, 58:12, 81:08, <b>C*06:147</b>  |
| <b>3</b>             | 170 bp           | <b>800 bp</b> | *38:01:01:01-38:02:08, 38:04-38:05, 38:08-38:15, 38:17-38:25, 38:27, 38:29-38:45, 38:47-38:53, 38:55Q-38:73, 38:75-38:79   | *07:69, 07:85:01-07:85:02, 07:180, 07:306, 08:65, 14:01:01:01-14:01:07, 14:01:09-14:20, 14:22-14:35, 14:37-14:41N, 14:43-14:47, 14:50-14:53, 14:55-14:56, 14:58-14:66, 15:09:01-15:10:04, 15:18:01:01-15:18:07, 15:23, 15:37, 15:51-15:52, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:161, 15:176, 15:186, 15:197:01-15:198, 15:200, 15:221, 15:226N, 15:229, 15:238, 15:243, 15:252, 15:263, 15:275:01-15:275:02, 15:290, 15:292-15:294N, 15:306-15:307, 15:311-15:314, 15:323, 15:329, 15:335, 15:337-15:338, 15:351, 15:354, 15:376, 15:380N, 15:382, 15:388, 15:414, 15:426-15:427, 15:433-15:436, 15:439, 15:445, 15:447, 15:451, 15:455, 18:33, 37:57, 39:01:01:01-39:01:01:09, 39:01:03:01-39:01:24, 39:03:01:01-39:07, 39:09:01:01-39:09:03, 39:11-39:12:01:02, 39:14:01:01-39:15, 39:18-39:19:02, 39:22, 39:24:01-39:38Q, 39:40:01N-39:48, 39:50-39:51, 39:53, 39:55-39:57, 39:59-39:62, 39:64-39:82, 39:84-39:87N, 39:90-39:95N, 39:97N-39:98, 39:100, 39:102-39:104, 39:106-39:109, 39:111-39:125, 39:127-39:130, 39:132-39:134, 39:136-39:141 |
| <b>4<sup>4</sup></b> | 105 bp           | 1070 bp       | *38:01:01:01-38:01:07, 38:01:09-38:01:13, 38:05, 38:09-38:14, 38:16, 38:19-38:22, 38:24, 38:26-38:28, 38:30-38:34N, 38:36-38:42, 38:51-38:61, 38:63, 38:65-38:71, 38:73, 38:77-38:78 | *49:26, 52:01:10, <b>A*23:01:18, A*25:01:08</b>  |
| <b>5</b>             | 210 bp           | 1070 bp       | *38:02:01-38:04, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 38:43-38:45, 38:47-38:50, 38:62, 38:64, 38:72, 38:74-38:76, 38:79   | *07:149, 08:02, 08:117, 15:115, 18:09, 37:01:02, 37:10, 44:130, 44:156, 44:221, 44:224, 44:258   |
| <b>6<sup>5</sup></b> | 140 bp<br>175 bp | <b>800 bp</b> | *38:35<br>*38:03, 38:34N <sup>w</sup>  | *07:27, 07:50, 08:04:01-08:04:02, 08:17, 08:54:01-08:54:02, 08:110, 15:03:01:01-15:03:08, 15:47:01-15:47:02, 15:54, 15:61-15:62, 15:64:01-15:64:02, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242:01-15:242:02, 15:251:01-15:251:02,  |

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| 7 <sup>5</sup> | 160 bp | <b>800 bp</b> | *38:03-38:04, 38:25              | *08:17, 08:38:01-08:38:02, 08:54:01-08:54:02, 08:101, 15:03:01:01-15:03:04, 15:03:06-15:03:08, 15:47:01-15:47:02, 15:49, 15:54, 15:61-15:62, 15:68-15:69, 15:74, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242:01-15:243, 15:251:01-15:251:02, 15:253, 15:266, 15:274, 15:281-15:282, 15:369, 15:376, 15:379, 15:389, 15:397, 15:429, 15:444, 15:448, 15:475, 18:12:01-18:12:02, 37:01:01:01-37:01:11, 37:01:13-37:07, 37:09-37:21, 37:23-37:59, 37:61-37:66, 37:68-37:76, 39:02:01-39:02:03, 39:08, 39:13:01-39:13:02, 39:22-39:23, 39:49, 39:101, 39:105, 39:110, 40:12, 40:149, 41:22, 42:11, 44:130, 44:156, 44:221, 44:224, 44:258, 48:01:01:01-48:02:01, 48:02:03-48:05, 48:07-48:15, 48:17-48:38, 48:40-48:47, 49:25, 52:16, 52:27, 52:77 |
|                | 195 bp |               | *38:21, 38:34N                   |  |
| 8 <sup>7</sup> | 185 bp | <b>800 bp</b> | *38:05, 38:33                    | *14:02:01:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:03, 14:04 <sup>w</sup> , 14:05-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 14:33-14:39, 14:41N, 14:43-14:45, 14:48, 14:50-14:52, 14:56-14:64, 15:189, 35:03:17, 35:26, 39:04, 39:129, <b>C*02:02:07, C*05:01:06</b>   |
|                | 230 bp |               | *38:15, 38:20:01-38:20:02, 38:22 | *15:265, 35:35, 37:40, 39:42, 58:84, <b>C*15:51</b>  |
| 9              | 145 bp | 1070 bp       | *38:06-38:07                     | *18:67, 18:136, 37:34, 44:06, 49:03, 51:01:01:01-51:01:39, 51:01:41-51:24:05, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:103, 51:105-51:111, 51:113-51:146, 51:148-51:255, 52:01:01:01-52:01:28, 52:01:30-52:01:34, 52:03-52:15, 52:17-52:19, 52:21:01-52:31:02, 52:33-52:82, 53:01:01:01-53:01:17, 53:01:19-53:02, 53:04-53:08:02, 53:10, 53:14-53:29, 53:32-53:35, 53:37, 53:40-53:52, 58:01:01:01-58:02:02, 58:04-58:16:02, 58:18-58:29, 58:31N-58:35, 58:37-58:43, 58:45:01-58:63, 58:65-58:97  |
|                | 205 bp |               | *38:21                           |  |

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Lot-specific information

|                       | Fragment Size             | Reference Size | Alleles   | Alleles  |
|-----------------------|---------------------------|----------------|---|--|
| <b>10<sup>4</sup></b> | 85 bp<br>145 bp<br>180 bp | 1070 bp        | *38:07, 38:12<br>*38:16, 38:46<br>*38:33  | *35:03:17, 39:19:02<br>*14:48, 49:26<br>*08:01:24, 14:11, 14:28, 15:189, 35:03:17, 35:26, 39:04, 49:26   |
| <b>11<sup>4</sup></b> | 90 bp<br>145 bp           | 1070 bp        | *38:13<br>*38:08, 38:18, 38:27  | *18:86, 39:102   |
| <b>12<sup>4</sup></b> | 90 bp                     | <b>800 bp</b>  | *38:09, 38:14, 38:26, 38:41   | *07:02:32, 07:85:02, 08:01:24, 14:01:01:01-14:01:04, 14:01:05 <sup>w</sup> , 14:01:06-14:02:02, 14:02:04-14:02:05, 14:02:07, 14:02:08 <sup>w</sup> , 14:02:09-14:13, 14:15-14:17, 14:19-14:20, 14:22-14:41N, 14:43-14:59, 14:61-14:62, 14:63 <sup>w</sup> , 14:64-14:66, 15:189, 39:01:01:01-39:01:01:09, 39:01:03:01-39:01:03:02, 39:01:05-39:01:08, 39:01:10-39:02:01, 39:03:01:01-39:04, 39:06:01-39:06:02:04, 39:06:04-39:06:06, 39:09:01:01-39:09:03, 39:12:01:01-39:12:01:02, 39:14:01:01-39:15, 39:18, 39:19:02, 39:22, 39:24:01, 39:24:02 <sup>w</sup> , 39:25N-39:26, 39:27 <sup>w</sup> , 39:28-39:36, 39:38Q-39:39:01, 39:40:01N-39:48, 39:50-39:54, 39:57-39:62, 39:64-39:82, 39:84-39:88, 39:90-39:95N, 39:97N-39:98, 39:100, 39:102-39:104, 39:106-39:109, 39:111-39:112, 39:114-39:117, 39:119-39:125, 39:127-39:130, 39:132-39:141, 67:01:01, 67:03-67:04, 67:06-67:07, <b>A*23:01:18, A*25:01:08, C*04:01:80, C*07:01:59<sup>w</sup></b>  |
| <b>13</b>             | 175 bp                    | <b>800 bp</b>  | *38:01:01:01-38:07, 38:09, 38:11-38:21, 38:23-38:28, 38:31-38:35, 38:38-38:44, 38:46-38:49, 38:51, 38:53-38:62, 38:64, 38:66-38:69, 38:71-38:79 | *08:55, 35:276, 39:01:01:01-39:01:01:09, 39:01:03:01-39:06:06, 39:08-39:14:01:02, 39:16, 39:18-39:20, 39:22-39:24:02, 39:26-39:28, 39:31:01:01-39:31:01:02, 39:35, 39:37-39:42, 39:44-39:46, 39:48, 39:51-39:54, 39:56-39:73, 39:75-39:81, 39:83-39:90, 39:92-39:95N, 39:97N, 39:98 <sup>w</sup> , 39:99-39:101, 39:103-39:106, 39:108, 39:109 <sup>w</sup> , 39:110-39:111, 39:113-39:127, 39:129-39:135, 39:137-39:141, 40:184, 51:101, 52:71, 58:20, 67:01:01-67:07   |
| <b>14<sup>5</sup></b> | 170 bp                    | 1070 bp        | *38:10, 38:32   | *07:02:01:01-07:24, 07:26-07:47, 07:49N-07:50, 07:52-07:154, 07:156-07:163, 07:165-07:201N, 07:203-07:208, 07:210-07:219, 07:221-07:222, 07:224-07:225, 07:227-07:234, 07:236-07:260, 07:262-07:300, 07:302-07:331, 07:333-07:335, 08:20:01-08:20:02, 08:53:01-08:53:02, 08:79, 08:156, 13:16, 13:20, 13:31, 13:48, 13:62, 14:01:01:01-14:40, 14:42, 14:44-14:55, 14:57-14:58, 14:60-14:66, 15:01:01:01-15:01:04, 15:01:06-15:04:04, 15:06-15:17:04, 15:17:06-15:19, 15:21:01:01-15:21:01:02, 15:23-15:30:01:02, 15:32:01-15:40:02, 15:42-15:47:02, 15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:74, 15:76-15:82, 15:85, 15:87, 15:89-15:90, 15:92-15:99, 15:101-15:104, 15:106, 15:108-15:110, 15:112-15:113, 15:115-15:122, 15:125-15:129, 15:131-15:135, 15:137-15:144, 15:146-15:150, 15:152-15:154, 15:156-15:161, 15:163-15:175, 15:177-15:178, 15:180-15:184, 15:187, 15:189-15:199, 15:201-15:217, 15:219-15:221, 15:223, 15:225-15:234, 15:236, 15:238-15:249, 15:251:01-15:274, 15:276-15:282, 15:284-15:311, |



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| 15 | 230 bp | 1070 bp | *38:01:01:01-38:02:08, 38:04, 38:06-38:12, 38:15-38:25, 38:27-38:32, 38:34N-38:40, 38:42-38:79 | *07:16, 07:27, 07:37:01-07:38, 07:50, 07:75:01:01-07:75:01:02, 07:91, 07:180, 07:207, 07:219, 07:228:01-07:228:02, 07:306, 13:14, 13:83, 14:14, 15:68, 15:71, 15:175, 15:381, 15:446, 18:01:01:01-18:01:01:16, 18:01:03-18:01:12, 18:01:14-18:01:22, 18:01:24-18:02, 18:05:01:01-18:15, 18:17N-18:24, 18:26-18:67, 18:69, 18:71-18:93, 18:95-18:106, 18:108-18:124,   |

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| <b>16</b>             | 220 bp | 1070 bp       | *38:19                             | *08:55, 39:03:01:01-39:03:01:02, 39:14:01:01-39:14:01:02, 39:24:01-39:24:02, 39:29, 39:37, 39:76, 39:120   |
|                       | 350 bp |               | *38:11                             | *07:13, 07:110, 08:101, 41:55, 48:36, 67:02  |
|                       | 425 bp |               | *38:17                             | *07:27, 07:236, 07:240, 08:126, 08:131, 08:139, 40:188 <sup>?</sup>  |
| <b>17</b>             | 150 bp | <b>800 bp</b> | *38:23                             | *39:73   |
| <b>18<sup>6</sup></b> | 160 bp | 1070 bp       | *38:24, 38:37                      |  |
| <b>19</b>             | 175 bp | 1070 bp       | *38:10, 38:30, 38:36, 38:50, 38:63 | *07:05:01:01-07:06:03, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206-07:207, 07:209-07:210, 07:213-07:214, 07:222, 07:249, 07:258, 07:262, 07:264, 07:270, 07:278, 07:283, 07:287, 07:293, 07:304, 07:317, 07:324, 07:327, 07:332-07:333, 08:01:01:01-08:01:22, 08:01:24-08:05, 08:08N-08:13, 08:15-08:27, 08:29-08:36, 08:38:01-08:48, 08:50-08:54:02, 08:56:01-08:73, 08:75-08:86N, 08:88, 08:90-08:106, 08:108 <sup>w</sup> , 08:109-08:110, 08:112-08:155, 08:157-08:199, 08:201-08:208, 13:01:01:01-13:01:02,  |

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|--|---|
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|                       |        |         |               | 52:76-52:82, 53:19 <sup>w</sup> , 53:36 <sup>w</sup> , 53:50, 54:01:01-54:05N, 54:07-54:08N, 54:10-54:13, 54:17-54:38, 55:01:01:01-55:05, 55:07-55:13, 55:15-55:22, 55:24-55:26, 55:28-55:40, 55:42-55:45, 55:47-55:54, 55:56-55:57, 55:59-55:67, 55:69-55:95, 56:01:01:01-56:01:12, 56:01:14-56:02:02, 56:04:01-56:08, 56:10, 56:12-56:17, 56:19N-56:30, 56:33-56:49, 56:51-56:62, 57:02:01-57:03:04, 57:07, 57:09, 57:12, 57:17, 57:28N, 57:39, 57:42, 57:46, 57:57, 57:63, 57:66, 57:70, 57:80, 57:82, 57:84, 57:94, 57:96, 57:101, 57:107, 58:08:01-58:08:02, 58:27-58:28:02, 58:65 <sup>w</sup> , 58:73, 59:01:01:01-59:10N, 78:01:01:01-78:10, 81:01:01-81:08, 82:01:01:01-82:03, <b>C*01:90, C*01:116, C*02:68, C*03:317, C*14:92, C*15:24, C*15:128</b>   |
| <b>20</b>             | 265 bp | 1070 bp | *38:28        | *07:56:01-07:56:02, 07:72, 07:206, 08:26:01-08:26:03, 08:56:01-08:56:02, 08:180, 14:54, 39:63, 39:135, 40:21 <sup>?</sup> , 40:58 <sup>?</sup> , 40:137 <sup>?</sup> , 40:248 <sup>?</sup> , 40:282 <sup>?</sup> , 40:325 <sup>?</sup> , 40:351 <sup>?</sup> , 40:364 <sup>?</sup> -40:365 <sup>?</sup> , 41:12, 41:36, 42:21, 49:03, 49:48   |
| <b>21<sup>4</sup></b> | 115 bp | 1070 bp | *38:30        | *08:49, 08:71, 13:46, 15:51, 15:83, 15:179:01-15:179:02, 15:199, 15:218Q, 18:56, 18:113, 27:47, 27:127, 35:38, 35:115, 35:169, 37:01:01:01-37:01:14, 37:03N-37:06:02, 37:08, 37:10-37:11, 37:13-37:38, 37:41-37:65, 37:67-37:76, 41:24, 42:10, 42:17, 44:02:01:01-44:02:54, 44:05:01-44:06, 44:08-44:09, 44:11-44:12, 44:14-44:25, 44:27:01:01-44:27:03, 44:33-44:34:02, 44:41:01-44:42, 44:44, 44:48-44:49, 44:51-44:52N, 44:55, 44:58N-44:59:02, 44:62-44:63, 44:66-44:68, 44:70-44:73, 44:75, 44:78, 44:80, 44:83-44:84:02, 44:86-44:91, 44:93, 44:95, 44:97, 44:99-44:102, 44:104, 44:106, 44:112-44:113, 44:116-44:119, 44:123, 44:126:01-44:127, 44:131-44:134, 44:136-44:140, 44:142, 44:145, 44:148-44:149N, 44:151-44:152, 44:158, 44:162, 44:168-44:173, 44:176-44:177, 44:179, 44:185, 44:187, 44:190-44:191, 44:195N-44:196, 44:200-44:201, 44:206, 44:208, 44:211-44:214, 44:216-44:221, 44:225-44:226, 44:229-44:230, 44:235-44:236, 44:238, 44:240-44:244, 44:249, 44:253-44:255, 44:257, 44:260-44:265, 44:267N, 44:269-44:270, 44:273-44:274, 44:279, 44:287-44:289, 44:291-44:293, 44:296-44:297, 45:01:01-45:23, 51:08:01:01-51:08:02, 51:20, 51:36, 51:44N, 51:97, 51:141, 51:153, 52:19, 53:22, 55:56, 56:13, 57:09, 57:24, 82:01:01:01-82:03, 83:01 |
| <b>22</b>             | 175 bp | 1070 bp | *38:29        | *15:69, 15:186, 15:449, 35:35, 39:07, 39:15, 39:29, 39:49, 39:55, 39:91, 58:84, <b>C*15:51</b>  |
|                       | 210 bp |         | *38:55Q       |   |
| <b>23<sup>5</sup></b> | 155 bp | 1070 bp | *38:10, 38:32 | *07:05:01:01-07:06:03, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206-07:207, 07:210, 07:213-07:214, 07:222, 07:249, 07:258, 07:262, 07:264, 07:269-07:270, 07:278, 07:283, 07:287, 07:293, 07:304, 07:317, 07:324, 07:327, 07:333,   |

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|-----------------------|--------|---------|--|---|
|                       |        |         |  | 08:20:01-08:20:02, 08:79, 13:16, 13:20, 13:31 <sup>w</sup> , 13:48, 13:62, 14:13, 14:53, 15:09:01-15:09:02, 15:30:01:01 <sup>w</sup> -15:30:01:02 <sup>w</sup> , 15:42, 15:58 <sup>w</sup> , 15:73 <sup>w</sup> , 15:150 <sup>w</sup> , 15:229, 15:243, 15:252, 15:303 <sup>w</sup> , 15:324 <sup>w</sup> , 15:329, 15:361, 15:435, 15:453 <sup>w</sup> , 15:460, 27:20, 27:24, 27:153, 27:168, 35:44 <sup>w</sup> , 35:384, 39:35, 39:36 <sup>w</sup> , 39:107, 40:05:01:01-40:05:01:02, 40:15-40:16, 40:23, 40:26, 40:28, 40:51, 40:95, 40:148, 40:158, 40:161, 40:174, 40:183, 40:198, 40:309, 40:355, 42:19, 46:61 <sup>w</sup> , 46:74 <sup>w</sup> , 48:05, 48:15, 51:01:01:01-51:01:18, 51:01:19 <sup>w</sup> , 51:01:20-51:01:30, 51:01:32-51:01:49, 51:01:51-51:02:02, 51:02:04-51:04:02, 51:06:01-51:07:02, 51:11N-51:14, 51:16, 51:21-51:24:05, 51:26-51:30, 51:32-51:35, 51:38-51:39, 51:41N, 51:43, 51:46, 51:48-51:53, 51:55-51:60, 51:61:01 <sup>w</sup> -51:61:02 <sup>w</sup> , 51:62-51:71, 51:74-51:80, 51:82-51:84, 51:86, 51:88-51:89, 51:95-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:121, 51:123-51:134, 51:136-51:138, 51:140, 51:142-51:145, 51:147, 51:149N-51:152, 51:154-51:156, 51:158:01-51:171, 51:173Q-51:180, 51:182-51:193, 51:195-51:196, 51:198-51:205, 51:206 <sup>w</sup> , 51:207-51:210, 51:212-51:215, 51:218-51:219, 51:221-51:222, 51:224-51:226, 51:228-51:253, 51:255, 52:01:01:01-52:01:10, 52:01:12-52:02:02, 52:04-52:09:02, 52:11, 52:13-52:18, 52:20, 52:21:01 <sup>w</sup> -52:21:02 <sup>w</sup> , 52:22-52:25:02, 52:27-52:43, 52:44 <sup>w</sup> , 52:45-52:56, 52:57 <sup>w</sup> , 52:58-52:62, 52:64-52:70, 52:72-52:73, 52:76-52:82, 54:20, 54:33 <sup>w</sup> , 55:01:01:01-55:01:16, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21 <sup>w</sup> , 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:55N, 55:59-55:60, 55:64, 55:66, 55:73-55:76, 55:78-55:79, 55:84-55:85, 55:87, 55:90-55:95, 56:05:01-56:06, 56:21, 56:25, 56:37, 57:57, 57:63, 58:08:01-58:08:02, 78:01:01:01-78:03, 78:05-78:07, 78:09, <b>C*01:90, C*01:116, C*02:68<sup>w</sup>, C*03:317, C*14:92, C*15:24, C*15:128</b> |
| <b>24<sup>4</sup></b> | 95 bp  | 1070 bp | *38:17   | *27:07:04   |
| <b>25</b>             | 215 bp | 1070 bp | *38:31   |   |
| <b>26<sup>4</sup></b> | 80 bp  | 1070 bp | *38:06-38:07   | *08:32, 15:376, 18:72:02-18:72:03, 35:01:46, 35:03:25, 39:19:01, 51:01:53, 56:45, <b>A*03:67, C*07:209</b>  |
| <b>27<sup>6</sup></b> | 460 bp | 1070 bp | *38:01:01:01-38:01:02, 38:01:04-38:01:12, 38:05-38:07, 38:10-38:14, 38:16, 38:19-38:22, 38:24-38:28, 38:30-38:34N, 38:36-38:40, 38:42, 38:51-38:61, 38:65-38:66, | *08:03, 08:78, 15:13:02, 18:136, 37:34, 41:46, 44:06, 44:18, 44:25, 44:50:01, 44:95, 49:01:01:01-49:01:13, 49:03-49:14, 49:16-49:21, 49:23-49:59, 51:01:01:01-51:01:24, 51:01:26-51:01:36, 51:01:38-51:01:51, 51:01:53-51:02:04, 51:02:06-51:09:02, 51:11N-51:24:01, 51:24:04-51:24:05, 51:26-51:39, 51:41N-51:46, 51:48, 51:50-51:53, 51:55-51:60, 51:61:02-51:77, 51:79-51:80, 51:82-51:85, 51:87-51:108, 51:110N-51:122, 51:124-51:125, 51:128-51:184N, 51:186-51:200,   |

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|                       |        |         |                                     |   |
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|                       |        |         | 38:68Q-38:71,<br>38:73, 38:77-38:78 | 51:202-51:219, 51:221, 51:223-51:246, 51:248-<br>51:255, 52:01:01:01-52:01:03, 52:01:05-52:01:06,<br>52:01:08-52:01:14, 52:01:16-52:01:27, 52:01:29-<br>52:08, 52:10:01, 52:10:03-52:19, 52:21:01-52:53,<br>52:55-52:67, 52:69-52:82, 53:01:01:01-53:01:02,<br>53:01:04-53:02, 53:04, 53:06-53:08:01, 53:10,<br>53:14-53:15, 53:17:01-53:30, 53:32, 53:34-53:35,<br>53:37, 53:39-53:52, 54:12, 56:21, 57:01:19,<br>57:14:01, 58:01:01:01-58:01:04, 58:01:06-<br>58:01:11, 58:01:13-58:02:02, 58:04-58:16:02,<br>58:18-58:26, 58:28:01-58:29, 58:31N-58:63,<br>58:65-58:74, 58:76-58:81, 58:83-58:97,<br>59:01:01:01-59:07, 59:09-59:10N, <b>A*24:172:02</b> |
| <b>28<sup>4</sup></b> | 120 bp | 1070 bp | *38:61, 38:64                       |   |
| <b>29</b>             | 280 bp | 1070 bp | *38:68Q                             |   |
| <b>30<sup>8</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\*38 SSP typings.

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

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

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

<sup>4</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>5</sup>Primer mixes 6, 7, 14 and 23 have a tendency giving rise to primer oligomer formation.

<sup>6</sup>Primer mixes 18 and 27 may have a tendency of unspecific amplification.

<sup>7</sup>Primer mix 8 may give rise to a long fragment of approx. 600 bp in some HLA-B alleles. This band should not be considered in the interpretation of HLA-B\*38 typings.

<sup>8</sup>Primer mix 30 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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Lot-specific information  
**PRIMER SPECIFICATION**

| Well No.                                 | 1                | 2                | 3                | 4                | 5                | 6                | 7                | 8                | 9                | 10               | 11               | 12               |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Length of spec. PCR product              | 185              | 190              | 170              | 105              | 210              | 140              | 160              | 185              | 145              | 85               | 90               | 90               |
|  |                  |                  |                  |                  |                  | 175              | 195              | 230              | 205              | 145              | 145              |                  |
|  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 180              |                  |                  |
| Length of int. pos. control <sup>1</sup> | 800              | 800              | 800              | 1070             | 1070             | 800              | 800              | 800              | 1070             | 1070             | 1070             | 800              |
| 5'-primer(s) <sup>2</sup>                | 103<br>5'-CCT 3' | 142<br>5'-TCT 3' | 142<br>5'-TCT 3' | 246<br>5'-gAA 3' | 142<br>5'-TCT 3' | 142<br>5'-TCT 3' | 142<br>5'-TCT 3' | 103<br>5'-CCg 3' | 206<br>5'-gAC 3' | 106<br>5'-CCA 3' | 246<br>5'-gAA 3' | 246<br>5'-gAA 3' |
|  |                  |                  |                  |                  |                  |                  | 382<br>5'-TgC 3' | 346<br>5'-ggC 3' | 382<br>5'-TgC 3' | 142<br>5'-TCA 3' | 463<br>5'-TgA 3' | 483<br>5'-gAg 3' |
|  |                  |                  |                  |                  |                  |                  |                  | 355<br>5'-TCA 3' |                  | 193<br>5'-CCA 3' | 660<br>5'-gAA 3' |                  |
|  |                  |                  |                  |                  |                  |                  |                  | 363<br>5'-AAT 3' |                  | 206<br>5'-gAC 3' |                  |                  |
| 3'-primer(s) <sup>3</sup>                | 246<br>5'-TAT 3' | 292<br>5'-gTA 3' | 272<br>5'-TgC 3' | 309<br>5'-ATC 3' | 309<br>5'-gTg 3' | 242<br>5'-CCC 3' | 259<br>5'-CTC 3' | 246<br>5'-TAT 3' | 309<br>5'-ATC 3' | 246<br>5'-TAT 3' | 296<br>5'-CTA 3' | 292<br>5'-gTC 3' |
|  | 246<br>5'-TAT 3' | 292<br>5'-gTA 3' |                  |                  | 315<br>5'-AgT 3' | 272<br>5'-Tgg 3' | 286<br>5'-CTA 3' | 544<br>5'-ggT 3' | 544<br>5'-ggT 3' |                  | 343<br>5'-T 3'   | 292<br>5'-gTC 3' |
|  |                  | 292<br>5'-gTA 3' |                  |                  |                  | 286<br>5'-CTA 3' | 544<br>5'-ggT 3' |                  |                  |                  | 559<br>5'-CAT 3' | 544<br>5'-ggT 3' |
|  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 774<br>5'-ggT 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              | 175              | 170                            | 230              | 220              | 150              | 160                            | 175              | 265              | 115              | 175              | 155              | 95               |
|  |                  |                                |                  | 350              |                  |                                |                  |                  |                  | 210              |                  |                  |
|  |                  |                                |                  | 425              |                  |                                |                  |                  |                  |                  |                  |                  |
| Length of int. pos. control <sup>1</sup> | 800              | 1070                           | 1070             | 1070             | 800              | 1070                           | 1070             | 1070             | 1070             | 1070             | 1070             | 1070             |
| 5'-primer(s) <sup>2</sup>                | 405<br>5'-CgT 3' | 527<br>5'-TgA 3'               | 103<br>5'-CCT 3' | 44<br>5'-ggC 3'  | 355<br>5'-CCT 3' | 533<br>5'-ggg 3'               | 412<br>5'-ATA 3' | 44<br>5'-ggC 3'  | 463<br>5'-TgA 3' | 373<br>5'-gCC 3' | 412<br>5'-ATA 3' | 246<br>5'-gAA 3' |
|  | 411<br>5'-CAC 3' |                                | 103<br>5'-CCT 3' | 363<br>5'-AgC 3' |                  | 547<br>5'-CCC 3'               |                  |                  |                  | 412<br>5'-ATg 3' |                  |                  |
|  | 412<br>5'-ATA 3' |                                |                  |                  |                  |                                |                  |                  |                  |                  |                  |                  |
| 3'-primer(s) <sup>3</sup>                | 544<br>5'-ggT 3' | 3 <sup>rd</sup> I<br>5'-TAT 3' | 292<br>5'-gTA 3' | 226<br>5'-CAC 3' | 463<br>5'-gCT 3' | 3 <sup>rd</sup> I<br>5'-TAT 3' | 544<br>5'-ggC 3' | 142<br>5'-TgC 3' | 538<br>5'-gTC 3' | 544<br>5'-ggT 3' | 527<br>5'-CCT 3' | 301<br>5'-gTC 3' |
|  |                  |                                | 292<br>5'-gTA 3' | 301<br>5'-gTC 3' |                  |                                |                  |                  |                  |                  |                  |                  |
|  |                  |                                | 292<br>5'-gTA 3' | 544<br>5'-ggT 3' |                  |                                |                  |                  |                  |                  |                  |                  |
| Well No.                                 | 13               | 14                             | 15               | 16               | 17               | 18                             | 19               | 20               | 21               | 22               | 23               | 24               |

101.565-12 – including *Taq* pol., IFU-01  
 101.565-12u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for  
 “Instructions for Use” (IFU)

Lot No.: **6H2**

Lot-specific information

| Well No.                                 | 25        | 26        | 27        | 28        | 29        |
|--|-----------|-----------|-----------|-----------|-----------|
| Length of spec. PCR product              | 215       | 80        | 460       | 120       | 280       |
| Length of int. pos. control <sup>1</sup> | 1070      | 1070      | 1070      | 1070      | 1070      |
| 5'-primer(s) <sup>2</sup>                | 409       | 167       | 311       | 246       | 769       |
|  | 5'-ggC 3' | 5'-gCA 3' | 5'-gAT 3' | 5'-gAA 3' | 5'-.A 3'  |
| 3'-primer(s) <sup>3</sup>                | 581       | 206       | 483       | 320       | 916       |
|  | 5'-ATg 3' | 5'-CCg 3' | 5'-gTg 3' | 5'-AgT 3' | 5'-gAC 3' |
|  |           |           |           | 337       |           |
|  |           |           |           | 5'-CTT 3' |           |
| Well No.                                 | 25        | 26        | 27        | 28        | 29        |

<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.



101.565-12 – including *Taq* pol., IFU-01  
101.565-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **6H2**

Lot-specific information

| <b>CELL LINE VALIDATION SHEET</b>             |                            |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|---|----------------------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>HLA-B*38 SSP subtyping kit<sup>2</sup></b> |                            |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|   |                            |        | Prod. No.: | Well      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|   |                            |        |            | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        | 13        | 14        | 15        | 16        |
|   |                            |        |            | 201444001 | 201444002 | 201444003 | 201444004 | 201673805 | 201904306 | 201904307 | 201444008 | 201444009 | 201444010 | 201444011 | 201444012 | 201673813 | 201444014 | 201444015 | 201444016 |
|   | IHC 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     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |

101.565-12 – including *Taq* pol., IFU-01  
101.565-12u – without *Taq* pol., IFU-02

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Lot No.: **6H2**

Lot-specific information

| CELL LINE VALIDATION SHEET              |      |            |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |
|---|------|------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*38 SSP subtyping kit <sup>2</sup> |      |            |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |
|   |      |            |        | Well       |           |           |           |           |           |           |           |           |           |           |           |           |           |
|   |      |            |        | 17         | 18        | 19        | 20        | 21        | 22        | 23        | 24        | 25        | 26        | 27        | 28        | 29        |           |
|   |      |            |        | Prod. No.: | 201444017 | 201444018 | 201673819 | 201444020 | 201444021 | 201673822 | 201673823 | 201673827 | 201785025 | 201673826 | 201904327 | 201785028 | 201785029 |
| IHC 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     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |

101.565-12 – including *Taq* pol., IFU-01  
101.565-12u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for  
“Instructions for Use” (IFU)

Lot No.: **6H2**

#### Lot-specific information

<sup>1</sup>The provided cell line HLA specificities are retrieved from the <http://www.ihwg.org/hla> web site. The specificity of an individual cell line may thus be subject to change.

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

No DNAs carrying the alleles to be amplified by primer solutions 10, 11, 16 to 18, 20, 24 to 26 and 28 to 29 were available. The specificities of the primers in primer solutions 10, 11, 16, 17, 20, 24 and 26 were tested by separately adding one or more additional 5'-primers, respectively one or more additional 3'-primers. In primer solutions 18 and 29 it was only possible to test the 3'-primer, the 5'-primers were not possible to test. In primer solutions 25 and 28 it was only possible to test the 5'-primer, the 3'-primers were not possible to test. In primer solutions 7 to 9, 11, 13 and 22 one or two of the 5'-primers were not possible to test, and in primer solutions 5 to 7 and 11 one or two of the 3'-primers were not possible to test. Additional primers in primer solutions 8 and 9 were tested by separately adding one or two 5'-primers and/or 3'-primers.

101.565-12 – including *Taq* pol., IFU-01  
101.565-12u – without *Taq* pol., IFU-02

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Lot No.: **6H2**

Lot-specific information

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