

101.702-24/06 – including *Taq* pol., IFU-01  
101.702-24u/06u – without *Taq* pol., IFU-02

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

Lot No.: **8F0**

Lot-specific information

## **Olerup SSP® HLA-A-B-C SSP Combi Tray**

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| Product number:                  | 101.702-24/06 – including <i>Taq</i> pol.<br>101.702-24u/06u – without <i>Taq</i> pol. |
| Lot number:                      | 8F0                                                                                    |
| Expiry date:                     | 2022-01-01                                                                             |
| Number of tests:                 | 24 tests – Product No. 101.702-24/24u<br>6 tests – Product No. 101.702-06/06u          |
| Number of wells per test:        | 95+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. 8F0.**

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-A-B-C SSP COMBI TRAY LOT (4E5)**

The **HLA-A low resolution** specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP®* HLA-A-B-C SSP Combi Tray lot was made (**Lot No. 4E5**). The kit design is based on IMGT/HLA database 3.29.0.

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

| Well | 5'-primer | 3'-primer         | rationale                                                                                               |
|------|-----------|-------------------|---------------------------------------------------------------------------------------------------------|
| 8    | Removed   | -                 | 5'-primer removed for the HLA-A*66:23 allele for improved resolution of the HLA-A*66 alleles.           |
| 9    | Added     | -                 | 5'-primer added for the A*25:39 and A*32:93 alleles.                                                    |
| 10   | -         | Added             | 3'-primer added for the A*26:137 allele.                                                                |
| 12   | -         | Added             | 3'-primer added for the A*66:26Q allele.                                                                |
| 13   | Removed   | -                 | 5'-primer removed for decreased tendency of primer oligomer formation.                                  |
| 17   | -         | Added             | 3'-primer added for the A*03:273 allele.                                                                |
| 18   | -         | Exchanged         | 3'-primer exchanged for the A*31:08 allele.                                                             |
| 21   | Exchanged | Modified, removed | 5'-primer exchanged, 3'-primer modified, and 3'-primer removed for improved HLA-specific amplification. |

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|    |       |   |                                                              |
|----|-------|---|--------------------------------------------------------------|
| 22 | Added | - | 5'-primer added for increased yield of the HLA-A*36 alleles. |
|----|-------|---|--------------------------------------------------------------|

The **HLA-B low resolution** specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP<sup>®</sup> HLA-A-B-C SSP Combi Tray lot was made (**Lot No. 4E5**). The kit design is based on IMGT/HLA database 3.29.0.

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

| Well | 5'-primer | 3'-primer | rationale                                                   |
|------|-----------|-----------|-------------------------------------------------------------|
| 34   | Modified  | -         | 5'-primer modified for improved HLA-specific amplification. |
| 35   | Modified  | -         | 5'-primer modified for improved HLA-specific amplification. |
| 41   | -         | Added     | 3'-primer added for improved allelic resolution.            |
| 42   | -         | Added     | 3'-primer added for the B*35:329 allele.                    |
| 45   | Modified  | -         | 5'-primer modified for improved HLA-specific amplification. |
| 46   | -         | Added     | 3'-primer added for the B*38:61 allele.                     |
| 50   | -         | Modified  | 3'-primer modified for improved HLA-specific amplification. |
| 52   | -         | Added     | Modified 3'-primer added for increased yield.               |
| 56   | -         | Added     | Modified 3'-primer added for increased yield.               |
| 65   | Modified  | -         | 5'-primer modified for improved HLA-specific amplification. |

The **HLA-C low resolution** specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup* SSP<sup>®</sup> HLA-A-B-C SSP Combi Tray lot was made (**Lot No. 4E5**). The kit design is based on IMGT/HLA database 3.29.0.

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

| Well | 5'-primer | 3'-primer           | rationale                                                                                                                    |
|------|-----------|---------------------|------------------------------------------------------------------------------------------------------------------------------|
| 73   | Added     | -                   | 5'-primer added for the C*01:125 allele.                                                                                     |
| 80   | Modified  | Modified            | 5'-and 3'-primers modified for improved yield and improved HLA-specific amplification.                                       |
| 88   | Added     | -                   | 5'-primer added for the C*14:78 allele.                                                                                      |
| 91   | -         | Exchanged, modified | 3'-primer exchanged for the C*17:35 allele, 3'-primers modified for increased yield and improved HLA-specific amplification. |

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Change in revision R01 compared to R00:

1. The reactivities of primer mix 17 have been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. Primer mix 4 amplifies the A\*01:15N allele. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R03 compared to R02:

1. Notes on Bw assignment of HLA-B alleles have been added in the section “Uniquely identified alleles”.

Change in revision R04 compared to R03:

1. The expiration date was altered due to extension of shelf-life.

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Well **96** contains Negative Control primer pairs, that will amplify more than 95% of the Olerup SSP<sup>®</sup> HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

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

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

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

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

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## PRODUCT DESCRIPTION

### HLA-A-B-C SSP Combi Tray

#### CONTENT

The primer set contains 5'- and 3'-primers for grouping the HLA-A\*01:01 to A\*80:03 alleles into the corresponding serological groups A1 to A80.

The primer set contains 5'- and 3'-primers for grouping the B\*07:02 to B\*83:01 alleles into the corresponding serological groups B7 to B81 as well as primer pairs for recognizing the Bw4 and Bw6 sequence motifs.

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

#### PLATE LAYOUT

Each test consists of 96 PCR reactions in a 96 well PCR plate.

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | NC |

The 96 well PCR plate is marked with 'A-B-C' in silver/gray ink.

Well No. 1 is marked with the Lot No. '8F0'.

Wells 1 to 24 – HLA-A low resolution primers.

Wells 25 to 72 – HLA-B low resolution primers.

Wells 73 to 95 – HLA-C low resolution primers.

Well 96 – Negative Control.

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

The PCR plates are covered with a PCR-compatible foil.

#### INTERPRETATION

Only HLA-A alleles will be amplified by the 24 wells of the HLA-A low resolution primer set, **wells 1 to 24**, except that a few HLA-B and HLA-C alleles will be amplified by some primer mixes. For further details see Specificity Table.

Only HLA-B alleles will be amplified by the 48 wells of the HLA-B low resolution, primer set, **wells 25 to 72**, except that a few HLA-A and HLA-C alleles will be amplified by some primer mixes. For further details see Specificity Table.

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#### Lot-specific information

Only HLA-C alleles will be amplified by the 23 wells of the HLA-C low resolution primer set, **wells 73 to 95**, except that a few HLA-A and HLA-B alleles will be amplified by some primer mixes.

For further details see Specificity Table.

### UNIQUELY IDENTIFIED ALLELES

All the HLA-A alleles, i.e. **A\*01:01 to A\*80:03**, recognized by the HLA Nomenclature Committee in August 2017<sup>1,2</sup> will be amplified by the primers in the HLA-A low resolution primer set, **wells 1 to 24**. The HLA-A alleles will be grouped into their corresponding serological specificities<sup>3,4</sup>.

All the HLA-B alleles, i.e. **B\*07:02 to B\*83:01**, recognized by the HLA Nomenclature Committee in August 2017<sup>1,2</sup> will be amplified by the primers in the HLA-B low resolution primer set, **wells 25 to 72**. The HLA-B alleles will be grouped into their corresponding serological specificities<sup>3</sup>.

All the HLA-C alleles, i.e. **C\*01:02 to C\*18:10**, recognized by the HLA Nomenclature Committee in August 2017<sup>1,2</sup> will be amplified by the primers in the HLA-C low resolution primer set, **wells 73 to 95**. The HLA-C alleles will be grouped into the C\*01:xx to C\*18:xx groups<sup>3</sup>.

### Notes on Bw assignment

The Bw4 and Bw6 status of HLA-B alleles is based their serological type:

|     | Serological Type                                                                                                                                                                                                                                           |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bw4 | B5, B5102, B5103, B13, B17, B27, B37, B38(16), B44(12), B47, B49(21), B51(5), B52(5), B53, B57(17), B58(17), B59, B63(15), B77(15)                                                                                                                         |
| Bw6 | B7, B703, B8, B14, B18, B22, B2708, B35, B39(16), B3901, B3902, B40, B4005, B41, B42, B45(12), B46, B48, B50(21), B54(22), B55(22), B56(22), B60(40), B61(40), B62(15), B64(14), B65(14), B67, B70, B71(70), B72(70), B73, B75(15), B76(15), B78, B81, B82 |

However, according to the HLA Dictionary<sup>5</sup> there are several exceptions to these associations. This product contains reactions specific to the sequences that code for the Bw4 and Bw6 epitopes. A small number of alleles classified as Bw4 or Bw6 in the HLA Dictionary are not amplified neither by the Bw4 nor the Bw6 primer mix:

| Bw Reactivity | Allele                                        |
|---------------|-----------------------------------------------|
| Bw6           | B*15:377Q, B*35:01:39, B*35:02:09, B*39:01:15 |

<sup>1</sup>HLA-A, HLA-B and HLA-C alleles 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).

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

<sup>3</sup>The HLA-A, HLA-B, HLA-C alleles will be grouped into their corresponding serological specificities, except that following alleles give rise to identical amplification patterns.

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These alleles can be separated by the full A-B-C primer set or by the respective high resolution SSP primer sets.

| Alleles                                                                                                                        | Alleles                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| A*11:116, 11:140, 11:199:01, 11:222, A*66:23                                                                                   | B*18:29, 18:72:01-18:72:03, 18:92, 18:102, B*35:32:01-35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:68:01-35:68:02, 35:99, 35:118-35:119, 35:174 |
| A*23:14:01-23:14:02, A*24:24, 24:71, 24:315                                                                                    | B*53:30, B*57:45, 57:51, 57:69                                                                                                                    |
| A*30:01:01-30:02:11, 30:02:13-30:04:02, 30:06-30:07, 30:09-30:20, 30:22-30:54, 30:56-30:88, 30:90-30:119, B*07:260             | B*55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 55:81, B*56:01:05, 56:15, 56:19N, 56:22                                                               |
| A*31:08, A*33:53                                                                                                               | B*55:23, 55:32, B*56:18, 56:31-56:32, 56:50                                                                                                       |
| A*31:109, A*33:125                                                                                                             | B*57:67:01, B*58:36                                                                                                                               |
| B*08:26:01-08:26:02, 08:50, 08:62, 08:85, 08:94, 08:146, B*42:07, 42:24                                                        | C*12:02:14-12:02:15, 12:18:02, B*67:02                                                                                                            |
| B*13:35, 13:59, 13:71, B*44:135, 44:158, 44:184                                                                                | C*12:49, 12:123, B*57:01:24                                                                                                                       |
| B*14:08:01-14:08:02, 14:55, B*39:01:19, 39:25N, 39:30, 39:32-39:34, 39:47, 39:50, 39:74, 39:82, 39:102, 39:107, 39:112, 39:128 | C*14:06, 14:08-14:09, 14:28:01-14:28:02, 14:53, 14:63, A*29:86, A*30:62, A*33:63, B*35:252, B*39:114                                              |

<sup>4</sup>The A\*01:26, 01:136 and 01:192 and the A\*11:94, 11:112 and 11:211 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mixes 1 and 11.  
The A\*23:66, A\*24:14:01:01-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138, 24:188, 24:222N, 24:228, 24:291, 24:296, 24:304, 24:316 and 24:324 and the C\*04:01:03 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 5.

<sup>5</sup>Holdsworth, R Hurley, C K Marsh, S G E Lau, M Noreen, H J Kempenich, J H Setterholm, M Maiers, M: 'The HLA dictionary 2008 : a summary of HLA-A , -B , -C , -DRB1 / 3 / 4 / 5 , and -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR and -DQ antigens', Tissue Antigens, 2009, 73(2), pp. 95-170.

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## SPECIFICITY TABLE

### HLA-A low resolution primer set

Specificities and sizes of the PCR products of the 24 primer mixes used for HLA-A low resolution SSP typing

| Primer Mix             | Size of spec. PCR product <sup>1</sup>             | Size of control band <sup>2</sup> | HLA-A serology <sup>3</sup>    | Amplified HLA-A alleles <sup>4,5</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|----------------------------------------------------|-----------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1<sup>5</sup></b>   | 120 bp,<br>145 bp,<br>225 bp                       | <b>800 bp</b>                     | 1, 36                          | *01:01:01:01-01:04N, 01:06-01:33, 01:35-01:240N, 03:18, 03:135, 03:260, 11:94, 11:112, 11:211, 11:226, 26:120, 36:01-36:05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>2</b>               | 175 bp,<br>215 bp,<br>255 bp,<br>365 bp,<br>415 bp | <b>800 bp</b>                     | 2, 203, 210, 19, 28,           | *02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:22:02, 02:24:01-02:35:01, 02:35:03-02:47, 02:49-02:77, 02:78 <sup>w</sup> , 02:79:01-02:97:02, 02:99, 02:101:01-02:128, 02:130-02:570, 02:572-02:643N, 02:645-02:694                                                                                                                                                                                                                                                                                                                                                                              |
| <b>3<sup>6</sup></b>   | 205 bp,<br>235 bp                                  | 1070 bp                           | 1, 3, 11, 32, 34, 36           | *01:12, 01:19, 01:21, 01:126, 01:200, 02:338, 03:01:01:01-03:17:02, 03:19-03:74, 03:76-03:94, 03:96-03:134, 03:136-03:176, 03:178N-03:186, 03:188-03:193, 03:195-03:214, 03:216-03:224, 03:226-03:248, 03:250-03:282, 11:03, 11:20, 11:25:01-11:25:02, 11:60, 11:130, 11:158, 11:175, 11:183, 11:209, 24:92, 32:04, 34:02:01-34:04, 34:07-34:10N, 34:13, 34:15, 36:02, 74:23                                                                                                                                                                                                                                               |
| <b>4</b>               | 190 bp                                             | <b>800 bp</b>                     | 1, 3, 11, 30, 36, 68           | *01:01:01:01-01:01:22, 01:01:24-01:01:47, 01:01:49-01:01:64, 01:01:67-01:01:78, 01:01:80-01:04N, 01:06-01:07, 01:09:01-01:11N, 01:13, 01:15N-01:18N, 01:20-01:29, 01:31N-01:33, 01:35-01:78, 01:80-01:98, 01:100-01:144, 01:146, 01:148, 01:150-01:158, 01:160N-01:166, 01:168-01:177, 01:179N-01:199, 01:201-01:204, 01:206-01:207, 01:209-01:213, 01:215-01:227, 01:229-01:235, 01:237-01:240N, 02:78, 02:169, 03:12, 03:18, 03:88, 03:135, 11:01:01:01-11:27, 11:29-11:52Q, 11:54-11:264, 25:43, 26:19, 26:72, 29:67, 30:08, 32:64, 36:04, 66:23, 68:13:01, 68:66:01-68:66:02, 68:134, 74:19, <b>C*03:365, C*12:131</b> |
| <b>5</b>               | 160 bp,<br>335 bp,<br>505 bp                       | 1070 bp                           | 3, 9, 23, 24, 2403, 29, 31, 32 | *03:15, 03:19, 03:30, 03:152, 03:273, 11:139, 23:01:01:01-23:68, 23:70-23:83, 24:02:01:01-24:11N, 24:13:01-24:15, 24:17-24:64, 24:66-24:210, 24:212-24:384, 29:07, 29:49, 31:08, 31:29, 32:05, 32:79, 33:19, 33:53, <b>C*04:01:03</b>                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>6<sup>7,9</sup></b> | 135 bp,<br>200 bp                                  | <b>800 bp</b>                     | 9, 23, 24, 29, 80              | *11:166, 23:01:01:01-23:56, 23:58-23:65, 23:67-23:68, 23:70-23:83, 24:24, 24:71, 24:315, 29:07, 29:49, 31:29, 31:85, 32:72, 80:01:01:01-80:03, <b>B*18:27</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>7</b>               | 175 bp,<br>205 bp                                  | 1070 bp                           | 2, 3, 9, 23, 24, 2403, 26      | *02:17:01 <sup>w</sup> -02:17:04 <sup>w</sup> , 11:139, 23:14:01-23:14:02, 24:02:01:01-24:11N, 24:13:01-24:13:02, 24:17-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:91, 24:93, 24:95-24:113, 24:115-24:137, 24:139-24:187, 24:189-24:210, 24:212-24:221, 24:223-24:227, 24:229-24:290, 24:292-24:295,                                                                                                                                                                                                                                                                                                                        |

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|                         |                              |                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------|----------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         |                              |                |                                                    | 24:297-24:303N, 24:305-24:315, 24:317-24:323N, 24:325-24:384, 26:16, 33:19, 33:119, 68:45, 68:117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>8</b>                | 165 bp,<br>200 bp            | <b>800 bp</b>  | 2, 3, 10, 11, 25,<br>26, 28, 32, 34,<br>66, 68, 69 | *01:51, 02:55, 02:527, 02:582, 02:644, 03:24, 03:50, 11:10, 11:183, 11:191, 25:01:01:01-25:16, 25:18-25:33, 25:35-25:45, 26:01:01:01-26:06, 26:08-26:15, 26:17-26:18, 26:20-26:43:02, 26:45-26:63, 26:65-26:71N, 26:73-26:88, 26:90-26:91, 26:93-26:145N, 29:28, 32:15, 33:51, 34:01:01-34:17, 66:01:01:01-66:22, 66:24-66:28N, 68:01:01:01-68:166, 69:01:01:01-69:03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>9<sup>5,8</sup></b>  | 80 bp                        | <b>800 bp</b>  | 2, 3, 25, 32                                       | *02:81, 02:124, 25:01:01:01-25:45, 32:01:01:01-32:02, 32:04, 32:06-32:37, 32:39-32:59, 32:61-32:70, 32:72-32:77, 32:81-32:103, <b>B*07:81, B*08:52, B*18:67, B*38:41, B*38:67, B*51:185, B*53:05:01-53:05:02, B*53:16, B*53:33, B*57:60</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>10<sup>5,9</sup></b> | 80 bp,<br>240 bp             | <b>800 bp</b>  | 10, 26, 43                                         | *01:43, 01:51, 02:644, 11:17, 11:40, 11:223, 26:01:01:01-26:02:02, 26:04, 26:07:01-26:20, 26:22-26:29, 26:31-26:43:02, 26:45-26:77, 26:79-26:91, 26:93-26:110, 26:112-26:145N, 33:13, 33:48, 43:01, 68:84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>11<sup>5</sup></b>   | 80 bp,<br>175 bp,<br>500 bp  | <b>1070 bp</b> | 1, 9, 10, 11, 26,<br>31, 34, 66                    | *01:13, 01:26, 01:28, 01:136, 01:176, 01:192, 01:229, 02:662, 03:63, 03:88, 11:01:01:01-11:27, 11:29-11:52Q, 11:54-11:264, 24:19, 24:44, 26:03:01, 26:06, 26:21, 26:78, 26:92, 26:111, 34:01:01-34:08, 34:10N-34:17, 66:01:01:01-66:01:03, 66:04-66:11, 66:13-66:14, 66:17-66:20, 66:22-66:24, 66:27N, 69:02, 80:02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>12<sup>5</sup></b>   | 125 bp,<br>160 bp,<br>190 bp | <b>800 bp</b>  | 3, 10, 25, 26, 31,<br>34, 43, 66                   | *01:01:56, 02:309, 02:454, 03:01:19, 11:11, 25:05-25:06, 26:09, 26:54, 26:91, 31:03-31:04, 31:123, 34:01:01-34:17, 43:01, 66:02-66:03, 66:16, 66:19, 66:21, 66:25-66:26Q, 66:28N, 68:130:01, 74:01:03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>13</b>               | 180 bp,<br>225 bp            | <b>1070 bp</b> | 1, 2, 3, 10, 25,<br>26, 34, 43, 66                 | *01:13, 01:176, 01:194, 02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:103, 02:135, 02:580, 03:01:01:01-03:01:22, 03:01:24-03:07:02, 03:09-03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:56, 03:58, 03:60-03:71, 03:73-03:87, 03:90-03:106, 03:109-03:110, 03:112-03:141, 03:143-03:151, 03:153-03:171, 03:174-03:175, 03:177, 03:179-03:193, 03:195-03:197N, 03:201-03:202, 03:204, 03:206-03:210, 03:212-03:218, 03:220-03:251, 03:253-03:259, 03:261-03:266N, 03:268-03:272, 03:274-03:282, 11:116, 11:140, 11:199:01-11:199:02, 11:222, 25:01:01:01-25:05, 25:07-25:35, 25:37-25:42N, 25:44-25:45, 26:01:01:01-26:01:42, 26:02:01 <sup>w</sup> -26:02:02 <sup>w</sup> , 26:03:01, 26:05-26:08, 26:10-26:28, 26:29 <sup>w</sup> , 26:30-26:43:02, 26:45-26:48, 26:49 <sup>w</sup> , 26:50-26:74, 26:76-26:77, 26:79-26:90, 26:92-26:145N, 30:55, 31:24-31:25, 32:26:01-32:26:02, 33:61, 34:08, 43:01, 66:01:01:01-66:01:03, 66:04-66:09, 66:10 <sup>w</sup> , 66:11-66:15, 66:17-66:20, 66:22-66:24, 66:27N, 68:71, 74:13 |
| <b>14<sup>5,9</sup></b> | 80 bp,<br>115 bp,<br>200 bp, | <b>1070 bp</b> | 3, 26, 29, 31, 34,<br>36, 68                       | *02:237, 02:309, 02:454, 03:01:38, 03:95, 03:123:02, 03:171, 03:231:01, 11:130, 26:19,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                             |                                         |               |                                         |                                                                                                                                                                                                                                                                      |
|-----------------------------|-----------------------------------------|---------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | 240 bp,<br>460 bp                       |               |                                         | 26:22, 29:01:01:01-29:103, 31:03-31:04, 31:123,<br>32:42, 34:04, 36:02, 66:09, 68:19, 68:130:02                                                                                                                                                                      |
| <b>15<sup>5,11,12</sup></b> | 90 bp,<br>135 bp,<br>205 bp             | 1070 bp       | 1, 30                                   | *01:13, 01:28, 01:176, 01:194, 01:229, 03:43,<br>03:82, 03:186, 03:260, 11:113, 11:162, 30:01:01-<br>30:02:11, 30:02:13-30:04:02, 30:06-30:20, 30:22-<br>30:119, 31:35, <b>B*07:260</b>                                                                              |
| <b>16</b>                   | 240 bp,<br>380 bp,<br>410 bp            | 1070 bp       | 24, 31, 32                              | *02:237, 03:95, 29:14, 31:01:02:01-31:127, 32:05,<br>32:79, 33:53, 33:125, 74:13                                                                                                                                                                                     |
| <b>17</b>                   | 140 bp,<br>180 bp,<br>240 bp,<br>260 bp | 1070 bp       | 1, 3, 25, 32, 74                        | *01:07, 01:95, 03:32, 03:43, 03:82, 03:152, 03:186,<br>03:219, 03:273, 23:64, 24:104, 24:243, 25:03,<br>25:30, 29:13, 29:39, 29:98, 30:89, 31:21, 31:35,<br>32:01:01:01-32:103, 74:07                                                                                |
| <b>18</b>                   | 200 bp,<br>390 bp                       | 1070 bp       | 24, 31, 32, 33,<br>68, 74               | *02:243:01-02:243:02, 24:82, 29:48, 31:08, 31:109,<br>32:05, 32:15, 32:79, 32:93, 33:01:01:01-33:01:10,<br>33:03:01-33:37, 33:39-33:130, 68:29, 74:04, 74:21                                                                                                         |
| <b>19</b>                   | 340 bp,<br>375 bp                       | <b>800 bp</b> | 2, 19, 68, 74                           | *01:121, 02:65, 02:407, 02:449, 03:246, 03:282,<br>32:62, 68:25, 74:01:01-74:28                                                                                                                                                                                      |
| <b>20<sup>9,12</sup></b>    | 210 bp,<br>240 bp                       | <b>800 bp</b> | 2, 210, 25, 68                          | *02:34-02:35:03, 02:46, 02:48, 02:56:01-02:56:02,<br>02:62, 02:70, 02:78, 02:103, 02:129, 02:571,<br>02:580, 02:651, 11:199:02, 23:01:13, 24:340,<br>25:05, 26:54, 26:122, 34:02:04, 68:01:01:01-<br>68:166                                                          |
| <b>21<sup>5</sup></b>       | 65 bp<br>240 bp,<br>375 bp,<br>545 bp   | <b>800 bp</b> | 2, 23, 24, 26, 28,<br>32,<br>66, 68, 69 | *02:55, 02:149, 02:243:01-02:243:02, 02:309,<br>02:644, 23:57, 24:82, 25:30, 26:22, 29:80, 31:41,<br>32:06, 33:22, 66:06, 66:09, 68:08:02, 68:29,<br>68:105, 68:157, 69:01:01:01-69:03                                                                               |
| <b>22<sup>5,10</sup></b>    | 85 bp,<br>240 bp,<br>400 bp             | <b>800 bp</b> | 2, 23, 34 36, 68                        | *02:34-02:35:03, 02:46, 02:48, 02:56:01-02:56:02,<br>02:62, 02:70, 02:78, 02:103, 02:129, 02:571,<br>02:576, 02:580, 02:682, 03:187, 11:155, 11:226,<br>31:62, 36:01-36:05, 68:11N, 68:41, <b>B*40:359,</b><br><b>B*57:65, C*04:31, C*06:137, C*07:569</b>           |
| <b>23<sup>5</sup></b>       | 80 bp,<br>160 bp,<br>240 bp,<br>495 bp  | <b>800 bp</b> | 2, 3, 24, 26, 28,<br>36, 68, 80         | *02:55, 02:237, 02:671, 03:41, 03:63, 03:75, 03:88,<br>03:95, 03:177, 11:130, 24:18, 24:204, 24:213,<br>26:03:01, 26:05-26:06, 26:21, 26:30, 26:78,<br>26:111, 33:24, 36:02, 68:05, 68:15, 68:20, 68:109,<br>68:136, 80:01:01:01-80:01:01:02, 80:03, <b>C*06:187</b> |
| <b>24<sup>11</sup></b>      | 360 bp,<br>445 bp                       | 1070 bp       | 3, 10, 26, 31, 66,<br>74                | *02:135, 02:309, 02:454, 03:01:19, 25:13,<br>26:07:01-26:07:02, 26:30, 26:65, 26:92, 31:04,<br>31:123, 34:09, 66:02-66:03, 66:12, 66:16, 66:21,<br>66:25-66:26Q, 66:28N, 74:01:03                                                                                    |

<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-A low resolution SSP typings. When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length. Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers. PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings. PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings. Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an 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,

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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>The serological reactivity of all HLA-A alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

<sup>4</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>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 mix 3 may faintly amplify the A\*30:04:01-30:04:02, 30:06, 30:09, 30:17, 30:29, 30:46, 30:77, 30:90, 30:99, 30:103, 30:105 and 30:117 alleles.

<sup>7</sup>Primer mix 6 may give rise to a lower yield of A\*23 alleles than the other A low primer mixes.

<sup>8</sup>Primer mix 9 may weakly amplify the A\*34 alleles.

<sup>9</sup>Primer mixes 6, 10, 14 and 20 have a tendency to giving rise to primer oligomer formation.

<sup>10</sup>Primer mix 22 might faintly amplify most A\*11 alleles.

<sup>11</sup>Primer mixes 15 and 24 may give rise to a lower yield of HLA-specific PCR product than the other HLA-A low primer mixes.

<sup>12</sup>Primer mixes 15 and 20 may have tendencies of unspecific amplifications.

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

‘w’ , might be weakly amplified.

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## SPECIFICITY TABLE

### HLA-B low resolution primer set

Specificities and sizes of the PCR products of the 48 primer mixes used for  
HLA-B low resolution SSP typing

| Primer Mix              | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | HLA-B serol. <sup>3</sup>                                                                          | Amplified HLA-B alleles <sup>4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|----------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>25<sup>5,9</sup></b> | 110 bp                                 | <b>800 bp</b>                     | 7, 703, 35, 40, 41, 42, 48, 61                                                                     | *07:02:01:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:47, 07:49N-07:52, 07:54-07:59, 07:61-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:163, 07:166-07:208, 07:210-07:222, 07:224-07:225, 07:227-07:234, 07:236-07:296, 08:79, 08:156, 15:138, 15:230, 15:241, 15:297, 35:66, 37:07, 40:15-40:16, 40:23, 40:32, 40:98, 40:128, 40:136, 40:158, 40:183, 40:198, 40:231, 40:279, 40:355, 41:08, 42:05:01-42:05:02, 44:150, 48:05, 48:08, 48:15, <b>C*02:23, C*03:260, C*04:77</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>26</b>               | 215 bp                                 | 1070 bp                           | 8, 44                                                                                              | *08:01:01:01-08:05, 08:07-08:25, 08:27-08:49, 08:51-08:61, 08:63-08:64, 08:66-08:84, 08:86N-08:93, 08:95-08:122, 08:124-08:131, 08:133-08:145, 08:147-08:184, 13:93, 15:142, 15:180, 15:429, 35:218, 35:256, 37:62, 40:328, 44:49, 44:156, 49:25, 51:68, 51:176, <b>C*06:147</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>27<sup>9</sup></b>   | 140 bp, 235 bp                         | 1070 bp                           | 7, 8, 13, 15, 35, 4005, 44, 49, 50, 61, 62, 77                                                     | *07:20, 07:24, 07:60, 07:100, 07:131, 07:220, 07:223, 08:21, 08:25, 08:175, 13:01:01:01-13:04, 13:06-13:08, 13:10-13:23, 13:25-13:38, 13:40-13:57, 13:59-13:66, 13:68-13:96, 13:99-13:103N, 15:07:01:01-15:07:03, 15:36 <sup>w</sup> , 15:45, 15:55, 15:68, 15:89 <sup>w</sup> , 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 35:05:01:01-35:05:03, 35:16-35:17:02, 35:22, 35:30, 35:51, 35:58, 35:72, 35:89, 35:97, 35:113-35:114, 35:125, 35:164, 35:199, 35:232, 35:242, 35:318, 35:346, 40:05:01:01-40:05:01:02, 40:71, 40:174, 44:08 <sup>w</sup> , 44:54, 44:57 <sup>w</sup> , 44:60, 44:106, 44:110, 44:135, 44:158, 44:184, 44:211, 44:213, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, <b>C*03:05, C*03:25, C*03:27, C*03:143, C*03:167, C*03:296, C*03:335, C*03:346</b>                                                                                                                                                                                                                                                                                                                                                    |
| <b>28<sup>6,7</sup></b> | 140 bp, 265 bp                         | <b>800 bp</b>                     | 12, 13, 14, 15, 17, 18, 21, 27, 35, 39, 40, 41, 44, 45, 47, 48, 49, 50, 57, 58, 60, 61, 62, 64, 65 | *07:68:01-07:68:03, 07:100, 07:218, 07:220, 07:237, 07:262, 08:71, 08:118, 13:01:01:01-13:01:09, 13:01:11-13:04, 13:06-13:13:02, 13:15-13:23, 13:25-13:57, 13:59-13:82, 13:84-13:92, 13:94-13:96, 13:99-13:101, 13:102 <sup>w</sup> , 13:103N, 14:01:01:01-14:02:08, 14:02:10-14:05, 14:07N, 14:09, 14:11-14:36, 14:38-14:54, 14:57, 15:07:01:01-15:07:03, 15:45-15:46, 15:53, 15:55, 15:68, 15:106, 15:126, 15:197:02, 15:207, 15:212, 15:324, 15:329, 15:331, 15:336, 15:360, 15:383, 15:399, 15:405, 18:14, 18:44:01-18:44:02, 18:107, 27:32, 27:138, 35:05:01:01-35:05:03, 35:22, 35:46-35:47, 35:51, 35:58, 35:63, 35:66, 35:72, 35:89, 35:97, 35:154, 35:199, 35:207, 35:217, 35:232, 35:317, 38:19, 39:03:01:01-39:03:01:02, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 39:76, 39:79, 39:120, 40:01:01-40:01:39, 40:01:42-40:01:49, 40:07, 40:10:01:01-40:10:02, 40:14:01-40:16, 40:22N-40:23, 40:25, 40:30-40:36, 40:38, 40:42-40:43, 40:45, 40:47-40:49, 40:51-40:55, 40:58-40:63, 40:65-40:67, 40:69, 40:71-40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:110, 40:112-40:114:02, 40:116-40:118N, 40:121, |

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| <b>44<sup>9</sup></b>   | 210 bp                        | <b>800 bp</b> | 27, 37                                                | *07:27, 07:236, 07:273, 08:49, 08:126, 18:54, 37:01:01-37:68, 38:17, <b>C*07:302</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>45</b>               | 170 bp                        | <b>800 bp</b> | 16, 35, 38, 39, 3901, 3902, 67, 72                    | *08:55, 15:69, 15:186, 35:35, 35:276, 38:01:01-38:02:05, 38:02:07-38:09, 38:11-38:21, 38:23-38:29, 38:31-38:35, 38:38-38:44, 38:46-38:49, 38:51, 38:53-38:62, 38:64, 38:66-38:68Q, 39:01:01:01-39:01:01:07, 39:01:03:01-39:01:18, 39:01:20-39:20, 39:22-39:24:02, 39:26-39:29, 39:31, 39:35, 39:37-39:42,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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| <b>46<sup>5</sup></b> | 110 bp         | 1070 bp | 38                                                                                                | *27:07:04, 38:01:01-38:01:07, 38:01:09-38:02:02, 38:02:04-38:03, 38:05, 38:08-38:24, 38:26-38:34N, 38:36-38:68Q, 49:26, 52:01:10, <b>A*23:01:18, A*25:01:08</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>49<sup>11</sup></b> | 180 bp         | 1070 bp | 15, 40, 44, 48, 60, 62, 71 | *15:116, 15:124, 15:352, 15:412, 27:125, 35:230, 35:331, 38:63, 40:01:01-40:01:06, 40:01:08-40:01:17, 40:01:19-40:01:49, 40:07, 40:10:01:01-40:10:02, 40:12, 40:21-40:23, 40:25, 40:30, 40:33-40:34, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:51-40:52, 40:54-40:55, 40:59-40:63, 40:65-40:67, 40:69, 40:73-40:74, 40:76, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:112-40:114:02, 40:116-40:118N, 40:123-40:126, 40:128, 40:130:01-40:130:02, 40:132, 40:134-40:135, 40:137-40:141, 40:146-40:147, 40:149-40:156, 40:160:01-40:160:02, 40:163, 40:166, 40:168, 40:170-40:172, 40:175, 40:178-40:179, 40:182-40:183, 40:185-40:188, 40:191, 40:193-40:196, 40:198-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:234-40:236, 40:238-40:242, 40:245, 40:247, 40:249-40:253, 40:257-40:265N, 40:272-40:273, 40:277-40:282, 40:285-40:286N, 40:288, 40:299-40:301, 40:308, 40:310, 40:312, 40:315, 40:319, 40:321, 40:323-40:329, 40:332-40:333, 40:336, 40:338N-40:339, 40:344, 40:346, 40:352-40:353, 40:355, 40:357-40:358, 40:360, 44:31, 44:169, 44:182, 46:06, 46:43, 48:03:01-48:03:02, 48:17, 48:23, 48:40, 57:59, <b>C*03:129, C*03:234, C*05:136, C*17:16</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>51<sup>5</sup></b>  | 105 bp         | 1070 bp | 7, 8, 22, 41, 42           | *07:04, 07:25, 07:146, 08:01:01:01-08:01:24, 08:01:26-08:05, 08:07-08:12:03, 08:14-08:19N, 08:21-08:24, 08:26:01-08:30N, 08:32-08:39, 08:41-08:54:02, 08:56:01-08:69, 08:71-08:78, 08:80-08:102, 08:104-08:112, 08:114-08:115, 08:117-08:133, 08:135-08:142, 08:144-08:155, 08:157-08:168, 08:170, 08:172-08:174, 08:176-08:184, 35:87, 40:136, 40:231, 40:279, 41:01:01-41:05, 41:07-41:08, 41:10-41:14, 41:16-41:28, 41:30-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| <b>54</b>                | 215 bp                                        | <b>800 bp</b>  | 5, 8, 12, 17, 21, 22, 41, 42, 44, 45, 51, 5102, 5103, 52, 53, 56, 62 | *08:09, 08:84, 13:46, 15:83, 41:01:01-41:01:05, 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, 41:44, 41:50, 42:04, 44:06, 44:15, 44:18, 44:20, 44:100, 45:01:01-45:20, 49:03, 51:01:01:01-51:01:01:21, 51:01:03-51:01:08, 51:01:10-51:01:39, 51:01:41-51:02:01:02, 51:02:03-51:04, 51:06:01-51:07:01, 51:08:01-51:09:01, 51:09:03-51:14, 51:16-51:24:05, 51:26-51:46, 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, 51:145-51:147, 51:149N-51:175, 51:177-51:178N, 51:181-51:217, 51:219-51:225, 52:01:02:01-52:01:02:03, 52:01:04, 52:01:09, 52:02:01, 52:03, 52:06:01-52:06:02, 52:09, 52:10:03, 52:19, 52:21, 52:31:02, 53:06, 55:20, 55:56, 56:13, 57:01:20, 58:08:01, <b>A*23:01:14</b>                                                                                                                     |
| <b>55</b>                | 130 bp, 280 bp                                | <b>800 bp</b>  | 7, 17, 18, 22, 35, 37, 40, 46, 51, 53, 60, 62, 78                    | *07:12, 07:14, 07:18:01-07:18:02, 07:137, 07:162-07:163, 07:199, 07:225, 07:227, 07:248, 14:10, 15:57 <sup>w</sup> , 15:289, 15:297, 15:318, 18:22, 18:69, 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, 37:04:01-37:04:02, 40:28, 40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02, 44:150, 44:190, 44:203, 46:01:01-46:39, 46:41N-46:46, 46:48-46:71, 48:17, 51:04, 51:46, 51:56:01-51:56:03, 51:139, 53:02, 53:06, 53:28, 57:14:01-57:14:02, 58:09, 58:76, <b>C*01:73, C*03:260, C*15:39, C*15:130</b>                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>56<sup>5,12</sup></b> | 90 bp, 410 bp                                 | <b>1070 bp</b> | 15, 22, 27, 35, 47, 54, 55, 56, 78, 81, 82                           | *07:65, 27:01 <sup>w</sup> , 27:02:01:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:118, 27:120-27:128, 27:130-27:136, 27:138-27:152, 27:154-27:164, 35:76, 35:186, 35:229, 37:60, 44:90, 44:97, 47:01:01:01-47:03, 47:06-47:10, 54:01:01-54:29, 54:31-54:38, 55:01:01-55:05, 55:07-55:17, 55:19-55:77, 55:79-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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| <b>57<sup>5</sup></b> | 90 bp,<br>175 bp  | 1070 bp       | 15, 27, 35,<br>48, 60, 62,<br>75, 77, 81                                                    | *07:174, 07:202, 07:222, 07:279, 13:36, 15:02:01-15:02:11, 15:08:01-15:08:02, 15:11:01-15:11:07, 15:13:01-15:13:02, 15:15, 15:21, 15:31, 15:44, 15:55, 15:76 <sup>w</sup> , 15:88-15:89, 15:112, 15:121, 15:139, 15:144, 15:148, 15:170, 15:189, 15:191, 15:194, 15:209N, 15:213-15:215, 15:223, 15:265, 15:283-15:284, 15:291, 15:297, 15:301-15:303, 15:305, 15:319, 15:325, 15:328, 15:330, 15:341, 15:345, 15:350, 15:357-15:358, 15:367, 15:374, 15:378, 15:384, 15:394, 15:399, 15:404, 15:418, 15:420, 15:425, 27:24, 35:46, 35:311, 40:31, 40:45, 40:80, 48:01:01:01-48:01:06, 48:04:01-48:04:02, 48:06-48:07, 48:09, 48:11, 48:15-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:39, 48:41, 56:39 <sup>w</sup> , 81:01-81:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>58<sup>9</sup></b> | 145 bp,<br>430 bp | 1070 bp       | 44, 49, 59,<br>61                                                                           | *40:13, 40:19, 40:109, 40:117, 40:292, 40:340, 41:46, 44:18, 44:25, 44:50:01, 44:95, 49:01:01:01-49:01:10, 49:04:01-49:14, 49:16-49:25, 49:27-49:48, 51:112, 53:30, 53:39, 54:12, 56:21, 57:45, 57:51, 57:69, 59:01:01:01-59:07, 59:09-59:10N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>59<sup>5</sup></b> | 120 bp,<br>210 bp | <b>800 bp</b> | 5, 13, 15,<br>17, 22, 35,<br>45, 49, 50,<br>51, 5102,<br>5103, 52,<br>55, 56, 62,<br>63, 78 | *07:78, 07:84, 13:16, 13:31 <sup>w</sup> , 13:48, 13:62, 14:37, 15:04:01:01 <sup>w</sup> -15:04:04 <sup>w</sup> , 15:16:01:01-15:16:03, 15:42, 15:67, 15:95, 15:137 <sup>w</sup> , 15:254, 15:293, 15:303 <sup>w</sup> , 15:310, 15:362, 15:408, 27:153, 35:265 <sup>w</sup> , 40:95, 40:148, 40:161, 46:32 <sup>w</sup> , 49:01:01:01-49:01:01:02, 49:01:03-49:10, 49:12-49:14, 49:16-49:44, 49:46, 49:48, 50:01:01:01-50:02, 50:04-50:11, 50:13-50:16, 50:18-50:20, 50:31-50:46, 50:47 <sup>w</sup> , 50:48, 50:50, 50:52-50:53, 51:01:01:01-51:03, 51:05, 51:07:01-51:09:03, 51:11N-51:14, 51:16-51:24:05, 51:26-51:41N, 51:43-51:44N, 51:48-51:55, 51:57-51:58, 51:60-51:61:02, 51:63:01-51:63:02, 51:65-51:80, 51:82-51:134, 51:136-51:138, 51:140-51:147, 51:149N-51:156, 51:158:01-51:193, 51:195-51:212, 51:214-51:219, 51:221-51:226, 52:01:01:01-52:71, 54:20, 54:33 <sup>w</sup> , 55:01:01-55:01:06, 55:01:08-55:01:16, 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, 55:58-55:60, 55:64, 55:66, 55:68, 55:73-55:76, 55:78-55:79, 55:84-55:85, 56:05:01-56:06, 56:21, 56:25, 56:37, 58:08:01-58:08:02, 78:01:01:01-78:09, <b>C*05:152, C*12:183<sup>w</sup></b> |
| <b>60</b>             | 430 bp            | 1070 bp       | 5, 17, 27,<br>44, 51,<br>5102,<br>5103, 52,<br>53, 57, 58,<br>61                            | *18:67, 18:136, 27:02:01:01-27:02:03, 27:30, 27:53, 27:57, 27:62, 27:65N, 27:75, 27:77, 27:83, 27:95, 27:102, 27:119, 27:126, 27:134, 27:157, 27:163, 37:34, 40:13, 40:19, 40:109, 40:292, 40:340 <sup>?</sup> , 44:06, 44:25, 44:50:01, 44:95, 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, 51:79-51:226, 52:01:01:01-52:01:28, 52:02:01-52:19, 52:21-52:71, 53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:30, 53:32-53:35, 53:37, 53:39-53:48N, 57:01:01-57:11, 57:13-57:90, 58:01:01:01-58:02:02, 58:04-58:16:02, 58:18-58:29, 58:31N-58:63, 58:65-58:91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>61</b>             | 145 bp            | 1070 bp       | 12, 21, 35,<br>40, 4005,<br>41, 45, 47,<br>50, 60, 61                                       | *07:133, 08:155, 15:46, 15:53, 15:106, 15:143, 15:212, 18:48, 18:107, 35:19, 35:47, 35:63, 35:154, 35:217, 35:274, 35:317, 39:69, 40:01:01-40:11:02, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:40, 40:42-40:45, 40:48-40:75, 40:77-40:92, 40:94-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:136, 40:138-40:156, 40:158-40:184, 40:186:01-40:187, 40:189-40:200, 40:202-40:207, 40:210-40:264, 40:266-40:291N, 40:293-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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| <b>65</b>                  | 180 bp,<br>205 bp | 1070 bp       | 7, 12, 15,<br>21, 22, 44,<br>45, 49, 50,<br>56, 61, 62,<br>82        | *07:29, 07:186, 08:123, 08:132, 13:03, 13:48, 15:73, 15:303, 40:71, 44:10, 44:15, 44:18, 44:140, 45:01:01-45:01:02, 45:04-45:07, 45:11-45:20, 46:11, 49:01:01:01-49:01:07, 49:01:09-49:03, 49:06, 49:08-49:14, 49:16-49:17, 49:19N-49:48, 50:01:01:01-50:02, 50:04-50:08, 50:10-50:13, 50:15-50:19, 50:32, 50:34-50:38, 50:40-50:44, 50:46-50:48, 50:50-50:53, 51:15, 51:62, 51:106, 51:223, 51:225, 52:25:01-52:25:02, 54:03, 54:33, 56:01:01:01-56:01:04, 56:01:06-56:02:02, 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, 56:51-56:53, 58:73, 59:04, 82:01-82:03, <b>C*03:19, C*03:102</b>                                                                                                                                                                                                                                                                                                                             |
| <b>66<sup>5</sup></b>      | 90 bp,<br>240 bp  | <b>800 bp</b> | 57                                                                   | *08:181, 55:14, 57:01:01-57:01:22, 57:01:24-57:04:01, 57:05-57:44, 57:46-57:50, 57:52-57:68, 57:70-57:88, 57:90, 58:36, <b>C*06:72</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>67<sup>5,9,12</sup></b> | 90 bp             | 1070 bp       | 5, 13, 17,<br>39, 55, 56,<br>58, 60, 61,<br>62, 71                   | *07:182N, 13:11, 15:18:03, 15:73, 15:224, 39:17, 40:48, 40:71, 51:62, 56:02:01-56:02:02, 56:04, 56:10, 56:51, 58:01:01:01-58:02:02, 58:04-58:29, 58:31N-58:35, 58:37-58:43, 58:45:01-58:91, <b>C*02:06:01<sup>w</sup>, C*02:47<sup>w</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>68<sup>5</sup></b>      | 95 bp             | 1070 bp       | 8, 18, 22,<br>35, 37, 38,<br>39, 44, 51,<br>5102,<br>5103, 53,<br>78 | *07:65 <sup>w</sup> , 07:134 <sup>w</sup> , 08:32, 08:133, 08:180, 15:308, 18:01:01:01-18:11, 18:13-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:106, 18:108-18:124, 18:126-18:139, 35:01:01:01-35:08:04, 35:08:06-35:09:03, 35:11:01-35:12:04, 35:14:01-35:15:02, 35:17:01-35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74-35:75, 35:76 <sup>w</sup> , 35:77-35:79, 35:81-35:153, 35:155-35:185, 35:187-35:190, 35:192-35:197, 35:199-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:253, 35:255-35:269, 35:272-35:273, 35:275-35:310, 35:312-35:316, 35:319-35:349, 37:08, 37:67, 38:06-38:07, 39:19:01-39:19:02, 44:06, 51:01:01:01-51:24:05, 51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:117, 51:119-51:146, 51:148-51:226, 53:01:01-53:16, 53:18-53:27, 53:29, 53:31-53:37, 53:40-53:48N, 56:06 <sup>w</sup> , 56:45 <sup>w</sup> , 78:01:01:01-78:04, 78:07-78:09 |
| <b>69<sup>5,9</sup></b>    | 115 bp,<br>150 bp | 1070 bp       | 15, 18, 22,<br>27, 35, 39,<br>46, 55, 62,<br>72, 73, 75,<br>76       | *07:100, 13:31, 13:41, 15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:18-15:01:30, 15:01:32-15:01:40, 15:04:01:01-15:04:04, 15:07:01:01-15:08:02, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24:01-15:24:02, 15:26N-15:28, 15:30, 15:32:01-15:32:02, 15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|                        |        |               |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>70<sup>14</sup></b> | 360 bp | 1070 bp       | Bw4                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>71</b>              | 350 bp | 1070 bp       | Bw6                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>72</b>              | 285 bp | <b>800 bp</b> | 7, 703, 8, 35, 40, 41, 42, 48, 53, 60, 61, 81 | *07:02:01:01-07:02:38, 07:02:40-07:06:02, 07:08:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:52, 07:54-07:59, 07:61-07:76, 07:79-07:83, 07:85-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:164, 07:166-07:192, 07:194-07:195, 07:199-07:213, 07:215-07:234, 07:236-07:238, 07:240-07:254, 07:256-07:296, 08:01:01:01-08:01:20, 08:01:22-08:01:24, 08:01:26-08:05, 08:07-08:08N, 08:10-08:11, 08:13-08:15, 08:17-08:30N, 08:32-08:83, 08:85-08:88, 08:90-08:102, 08:104-08:106, 08:108-08:112, 08:114-08:115, 08:117-08:133, 08:135-08:168, 08:170-08:174, 08:176-08:183, 15:297, 27:164, 35:66, 35:87, 37:07, 40:15-40:16, 40:30-40:32, 40:34, 40:45, 40:59, 40:80, 40:98, 40:137, 40:160:01-40:160:02, 41:02:01-41:02:07, 41:04, 41:10-41:11, 41:13, 41:18-41:19, 41:23-41:24, 41:27, 41:31, 41:36, 41:38-41:43, 41:45N-41:49, 41:51-41:52, 42:01:01-42:02:01:02, 42:05:01-42:07, 42:09-42:13, 42:15-42:24, 44:150, 44:166, 48:01:01:01-48:01:06, 48:05-48:12, 48:14-48:20, 48:22, 48:27-48:39, 48:41, 53:15, 81:01-81:08, <b>C*03:260</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 low resolution SSP typings.

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

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

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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 25 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>The serological reactivity of all HLA-B alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

<sup>4</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>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 mix 28 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes in B\*40, B\*41, B\*45, B\*49 and B\*50 alleles.

<sup>7</sup>Primer mixes 28, 29, 33, 38 and 63 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes.

<sup>8</sup>Primer mixes 33, 52 and 62 may have tendencies of unspecific amplifications, most pronounced in primer mix 33.

<sup>9</sup>Primer mixes 25, 27, 38, 43, 44, 50, 58, 67 and 69 have a tendency to giving rise to primer oligomer formation.

<sup>10</sup>The B\*57 and B\*58 alleles might be faintly amplified by primer mix 33.

<sup>11</sup>The C\*17:01 to C\*17:04 alleles might be faintly amplified by primer mix 49.

<sup>12</sup>Primer mixes 56 and 67 may generate a false positive band of about 800 base pairs. This band should be disregarded when interpreting HLA-B low resolution typings.

<sup>13</sup>Primer mix 63 may give rise to a lower yield of B\*54 alleles than the other B low primer mixes.

<sup>14</sup>The Bw4-associated HLA-A specificities A9, A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 70.

‘w’, might be weakly amplified.

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

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## SPECIFICITY TABLE

### HLA-C low resolution SSP typing

Specificities and sizes of the PCR products of the 23+1 primer mixes used for  
HLA-C low resolution SSP typing

| Primer Mix              | Size of spec. PCR product <sup>1</sup>  | Size of control band <sup>2</sup> | Amplified HLA class I alleles <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|-----------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>73<sup>4</sup></b>   | 90 bp,<br>150 bp                        | <b>800 bp</b>                     | *01:02:01:01-01:145N, 04:71, 07:316, 07:338, 07:579, 14:58, 15:104, <b>B*39:76, B*54:18</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>74<sup>5</sup></b>   | 130 bp,<br>200 bp,<br>270 bp,<br>300 bp | <b>800 bp</b>                     | *01:10, 01:43, 02:02:01-02:02:03, 02:02:05-02:40:02, 02:42-02:57, 02:59-02:130, 04:32, 04:77, 04:265, 05:105, 06:08, 07:101, 07:148, 07:161, 07:583, 08:31, 12:119, 12:198, 14:25, 15:42, 15:111, 16:29, 16:50, 17:01:01-02-17:06, 17:08-17:16, 17:18-17:22, 17:24-17:32, 17:34-17:38, 18:03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>75<sup>12</sup></b>  | 280 bp                                  | <b>800 bp</b>                     | *02:02:01-02:02:03, 02:02:05-02:02:29, 02:02:31-02:03, 02:04 <sup>w</sup> , 02:05:01-02:13, 02:14:01 <sup>w</sup> , 02:15-02:25Q, 02:26:02-02:40:02, 02:42-02:86, 02:88-02:106, 02:108-02:130, 03:02:01-03:02:09, 03:02:11-03:02:16, 03:04:01-01-03:04:25, 03:04:27-03:10, 03:14-03:17:02, 03:19, 03:23-03:29, 03:32-03:38:02, 03:40:01-03:42, 03:44-03:48, 03:51, 03:54, 03:57:01-03:57:02, 03:60, 03:63-03:64:01, 03:65, 03:70-03:74, 03:77-03:78, 03:80:01-03:80:02, 03:82, 03:84, 03:87:01-03:87:02, 03:89-03:95, 03:98, 03:99:02-03:101, 03:104-03:111, 03:113:01-03:115, 03:117-03:118, 03:121N, 03:123, 03:125, 03:128-03:131, 03:134-03:136, 03:138-03:140, 03:143, 03:145-03:149, 03:153-03:155, 03:157, 03:159, 03:162-03:164, 03:169Q, 03:172-03:174, 03:178-03:181, 03:183-03:184:02, 03:186:01-03:186:02, 03:190-03:191, 03:193-03:194, 03:197-03:201N, 03:208N-03:213, 03:215-03:216, 03:218-03:219, 03:221-03:222, 03:224N-03:226, 03:232-03:236, 03:238-03:240, 03:244Q-03:250, 03:252, 03:255-03:261, 03:263:01-03:263:02, 03:265N-03:266, 03:269-03:270, 03:277N, 03:278 <sup>w</sup> , 03:279-03:283, 03:286-03:287, 03:292-03:294, 03:296-03:303, 03:305-03:306, 03:309-03:311, 03:313-03:315, 03:317-03:318N, 03:322-03:323N, 03:326, 03:328-03:335, 03:337-03:338, 03:340, 03:342-03:343, 03:347-03:350, 03:353-03:355, 03:358-03:359, 03:362, 03:365, 04:03:01-04:03:03, 04:06, 04:16, 04:80, 04:107, 04:147, 04:160, 04:171, 04:256, 05:58:01, 05:58:03, 06:03:01, 06:132:01-06:132:02, 07:96:01-07:96:02, 07:314:02, 07:578, 12:03:23, 15:02:01-01-15:02:20, 15:02:22-15:02:24, 15:02:26-15:05:08, 15:05:10-15:09, 15:10:02-15:11, 15:13:01-01-15:13:01:02, 15:15-15:19, 15:21-15:22, 15:24-15:35, 15:37-15:60, 15:62, 15:64-15:106, 15:108-15:137, 15:139-15:143, 15:145N, 16:34, 16:70, <b>B*44:02:44, B*56:01:09, B*58:74</b> |
| <b>76<sup>4,6</sup></b> | 85 bp,<br>170 bp,<br>275 bp             | 1070 bp                           | *01:67, 01:122, 01:131, 03:02:01-03:02:12, 03:02:14-03:04:06, 03:04:08-03:11:02, 03:13:01-03:15, 03:17:01-03:40:04, 03:42-03:57:02, 03:59-03:79, 03:80:02-03:85, 03:87:01-03:93, 03:95-03:98, 03:100-03:109, 03:111-03:112, 03:114-03:150, 03:152-03:164, 03:166-03:250, 03:252-03:259, 03:261-03:266, 03:268-03:285, 03:287-03:292, 03:294-03:331, 03:333-03:360, 03:362-03:365, 04:212, 07:242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>77</b>               | 280 bp                                  | <b>800 bp</b>                     | *03:03:01-01-03:03:20, 03:03:22-03:03:36, 03:11:01-03:11:02, 03:13:01-03:13:02, 03:18:02, 03:20N-03:22Q, 03:30-03:31, 03:43:01-03:43:02, 03:49-03:50, 03:52-03:53, 03:55-03:56,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| <b>78<sup>12</sup></b>     | 135 bp,<br>330 bp            | <b>800 bp</b>  | *02:02:01-02:02:03, 02:02:05-02:02:12, 02:02:14-02:02:25, 02:02:27-02:02:28, 02:02:30-02:20, 02:22-02:25Q, 02:27:01-02:38N, 02:40:01-02:40:02, 02:42-02:44, 02:46-02:86, 02:88-02:100, 02:101 <sup>w</sup> , 02:102-02:106, 02:108-02:130, 03:231, 04:01:01:01-04:01:27, 04:01:29-04:01:60, 04:01:62, 04:01:64, 04:01:66-04:01:83, 04:03:01-04:15:03, 04:17-04:20, 04:23-04:41, 04:43-04:102, 04:104-04:139, 04:141-04:195, 04:197-04:212, 04:214-04:219, 04:221-04:235, 04:237-04:276, 04:278-04:279N, 05:26, 05:78:01-05:78:02, 07:02:09, 07:125, 07:356, 07:531, 07:583, 15:11, 15:36, 15:118, 16:34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>79</b>                  | 170 bp,<br>390 bp,<br>445 bp | <b>1070 bp</b> | *02:94, 04:129, 05:01:01:01-05:01:35, 05:03-05:154N, 06:05, 06:67, 08:10, 12:21, 12:33, 15:107, 16:40, 16:53, 16:110, 16:113, 17:05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>80<sup>4,12</sup></b>   | 125 bp,<br>355 bp            | <b>800 bp</b>  | *01:90, 01:101-01:102, 01:113, 01:136, 01:145N, 02:06:01-02:06:02, 02:23, 02:36:01-02:36:02, 02:47, 04:108 <sup>w</sup> , 04:178, 05:132, 06:02:01:01-06:02:01:08, 06:02:03-06:02:38, 06:02:40-06:16N, 06:18-06:31, 06:33-06:76:01, 06:77-06:93, 06:96-06:98, 06:100-06:132:01, 06:133-06:179, 06:181-06:204, 08:113, 12:02:11, 12:03:09, 12:03:26, 12:15, 12:113, 12:208, 15:02:01:01-15:03, 15:05:01 <sup>w</sup> -15:05:12 <sup>w</sup> , 15:06:01-15:13:01:02, 15:15-15:19, 15:21, 15:22 <sup>w</sup> -15:23 <sup>w</sup> , 15:26-15:28, 15:29 <sup>w</sup> , 15:31-15:35, 15:36 <sup>w</sup> , 15:37-15:39, 15:41-15:45, 15:46 <sup>w</sup> , 15:47-15:53, 15:54 <sup>w</sup> , 15:55-15:58, 15:59 <sup>w</sup> , 15:60-15:64, 15:67-15:68, 15:69 <sup>w</sup> -15:70 <sup>w</sup> , 15:71-15:75, 15:78:01-15:89, 15:90 <sup>w</sup> , 15:91-15:101, 15:103, 15:104 <sup>w</sup> -15:105Q <sup>w</sup> , 15:106-15:107, 15:108 <sup>w</sup> , 15:109, 15:110 <sup>w</sup> -15:111 <sup>w</sup> , 15:112-15:114, 15:115N <sup>w</sup> -15:117 <sup>w</sup> , 15:118-15:124, 15:125 <sup>w</sup> , 15:126-15:139, 15:140 <sup>w</sup> , 15:141-15:145N, 16:01:16, 16:20, 16:109, <b>B*58:02:01</b> |
| <b>81<sup>7</sup></b>      | 245 bp,<br>425 bp            | <b>800 bp</b>  | *07:01:01:01-07:33N, 07:35-07:294, 07:296-07:599, 12:181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>82<sup>4,8,12</sup></b> | 110 bp,<br>165 bp,<br>390 bp | <b>800 bp</b>  | *01:43, 02:87, 03:280, 07:101, 07:148, 07:161, 07:583, 08:01:01:01-08:63, 08:65-08:153, 12:127, 12:203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>83</b>                  | 155 bp,<br>255 bp,<br>340 bp | <b>1070 bp</b> | *01:14, 01:59, 01:118, 02:02:01-02:02:03, 02:02:05-02:40:02, 02:42-02:86, 02:88-02:130, 03:07:01-03:07:02, 03:15, 03:45, 03:130, 03:140, 03:163, 03:231, 03:243, 03:248, 03:268, 03:297, 03:308, 04:01:01:01-04:01:83, 04:03:01-04:20, 04:23-04:276, 04:278-04:279N, 05:01:01:01-05:01:35, 05:03-05:128N, 05:130-05:154N, 06:02:01:01-06:02:01:08, 06:02:03-06:02:11, 06:02:13-06:10, 06:12-06:51, 06:53:01-06:121, 06:123, 06:125-06:146, 06:148-06:204, 07:07, 07:09, 07:49, 07:53, 07:76:01-07:76:02, 07:125, 07:210, 07:216, 07:238, 07:247, 07:315, 07:328, 07:356, 07:403, 07:406, 07:531, 07:598, 08:10, 12:04:01-12:05, 12:09, 12:21, 12:33, 12:41, 12:54, 12:60, 12:146, 12:188, 12:194, 14:04,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>84<sup>4,10</sup></b> | 100 bp,<br>155 bp,<br>220 bp | <b>800 bp</b>  | *01:02:18, 01:04, 01:21, 06:02:38, 06:76:02, 12:02:01-12:02:13, 12:03:01:01-12:03:01:09, 12:03:03-12:03:07, 12:03:09-12:03:15, 12:03:17-12:03:19, 12:03:21-12:03:29, 12:03:31-12:03:33, 12:03:35-12:03:42, 12:04:02-12:08, 12:10:01-12:13, 12:14:02-12:18:01, 12:19-12:25, 12:27-12:32, 12:34-12:58, 12:60-12:143, 12:145-12:180, 12:182-12:184, 12:186-12:207, 12:209-12:214, 14:02:08, 16:01:17, 16:02:13, 16:15:02, <b>B*57:01:24</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>85<sup>4,10</sup></b> | 120 bp,<br>250 bp            | <b>800 bp</b>  | *01:21, 02:12, 02:49, 02:55:01-02:55:02, 02:115, 04:01:01:01-04:01:83, 04:03:01-04:09N, 04:12-04:20, 04:23-04:35, 04:37-04:54, 04:56-04:152, 04:154-04:168, 04:170N-04:191N, 04:193, 04:195-04:209, 04:211-04:213, 04:216-04:226, 04:228-04:248, 04:250-04:276, 04:279N <sup>w</sup> , 05:42, 05:46, 05:112, 06:76:02, 07:02:09, 07:125, 07:356, 07:531, 07:583, 08:05, 08:21, 08:25, 08:137, 12:02:01-12:02:10, 12:02:12-12:03:03, 12:03:05-12:03:08, 12:03:10-12:03:12, 12:03:13 <sup>w</sup> , 12:03:14-12:03:23, 12:03:24 <sup>w</sup> , 12:03:25-12:03:33, 12:03:35-12:03:42, 12:04:02, 12:06-12:08, 12:10:01-12:20, 12:22-12:32, 12:34-12:48, 12:50-12:97, 12:99:01-12:122, 12:124-12:187, 12:189-12:194, 12:195:02-12:214, 15:03, 15:16, 15:25, 15:75, 16:01:01:01-16:02:13, 16:06-16:28, 16:30N-16:32, 16:34, 16:36-16:39:02, 16:41, 16:43-16:47, 16:49-16:52, 16:54, 16:56-16:60, 16:62-16:65, 16:67, 16:69-16:77N, 16:79-16:81, 16:83-16:87, 16:89N-16:90, 16:92-16:102, 16:104-16:108, 16:111-16:113, 17:01:04, <b>B*67:02</b>                                                                                                                                                                 |
| <b>86<sup>13</sup></b>   | 160 bp,<br>210 bp            | <b>800 bp</b>  | *01:04, 01:09, 02:05:01-02:05:03, 02:17, 04:42:01-04:42:02, 04:220, 06:02:01:01-06:02:01:08, 06:02:03-06:02:15, 06:02:17-06:02:42, 06:02:44-06:03:02, 06:07-06:13, 06:15-06:34:02, 06:36-06:39, 06:41-06:71, 06:73-06:78, 06:80, 06:82-06:100, 06:102:01-06:122, 06:124-06:126, 06:128N-06:135, 06:137-06:142, 06:145-06:152N, 06:154-06:196, 06:198-06:202, 07:31:01-07:31:02, 07:125, 07:177, 07:356, 07:514, 07:531, 12:03:01:01-12:07, 12:11-12:13, 12:15, 12:19, 12:23, 12:25-12:26, 12:28-12:29, 12:31-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:50-12:55, 12:57:01-12:63, 12:65-12:66, 12:70-12:71, 12:75-12:79, 12:81-12:82, 12:87-12:95, 12:97-12:102, 12:107-12:111, 12:113, 12:115-12:116, 12:119-12:122, 12:125, 12:129, 12:131, 12:133, 12:135, 12:138-12:141, 12:143-12:144, 12:147, 12:149-12:150, 12:152, 12:154, 12:156-12:160, 12:163, 12:165, 12:167, 12:170-12:174, 12:176, 12:178, 12:180, 12:182, 12:184-12:187, 12:189-12:192, 12:194-12:195:02, 12:197, 12:199, 12:201-12:203, 12:205-12:206, 12:209-12:211, 12:213, 14:15-14:16, 14:87, 16:04:01:01-16:04:01:02, 16:04:03-16:04:05, 16:29, 16:33, 16:35, 16:42, 16:48, 16:55, 16:61, 16:66, 16:78, 16:82, 16:91, 16:109 |
| <b>87<sup>12</sup></b>   | 130 bp,<br>255 bp,<br>555 bp | <b>1070 bp</b> | *02:02:01-02:02:03, 02:02:05-02:13, 02:15-02:26:03, 02:28-02:40:02, 02:42-02:64, 02:66-02:86, 02:88-02:106, 02:108-02:114, 02:116-02:130, 03:07:01-03:07:02, 03:10, 03:15, 03:29, 03:45, 03:58, 03:86, 03:94, 03:99:01-03:99:02, 03:163, 03:209, 03:268, 03:297, 03:302, 04:03:01-04:03:03, 04:06, 04:16, 04:37, 04:80, 04:103, 04:107, 04:147, 04:160, 04:171, 04:190, 04:256,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| <b>88<sup>11</sup></b>  | 160 bp,<br>260 bp,<br>445 bp | 1070 bp | *01:67, 01:122, 03:155, 03:231, 04:11, 04:29, 04:36, 04:55, 04:114, 04:172, 07:64, 07:402, 07:449, 08:95, 12:55, 14:02:01:01-14:11, 14:13-14:48, 14:50-14:88, 16:40, 16:53, 16:110, 16:113, <b>A*29:86, A*30:62, A*33:63, B*35:252, B*39:114</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>89<sup>4,9</sup></b> | 110 bp,<br>325 bp            | 800 bp  | *01:90, 01:101-01:102, 01:113, 01:116, 02:06:01-02:06:02, 02:23, 02:36:01-02:36:02, 02:68, 03:81, 03:175, 03:199, 03:245, 03:317, 04:108, 04:112, 04:169, 04:178, 05:36, 05:132, 06:89, 07:123, 07:173, 07:294, 08:113, 12:08, 12:15, 12:81, 12:113, 12:188, 12:208, 15:02:01:01-15:13:01:02, 15:15-15:19, 15:21-15:24, 15:26-15:145N, 16:20, 16:64, 16:70, 16:87, 16:109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>90<sup>11</sup></b>  | 180 bp,<br>210 bp,<br>240 bp | 1070 bp | *02:13, 02:18, 02:33, 02:49, 02:75, 02:115, 04:01:01:01-04:01:22, 04:01:24-04:01:73, 04:01:74 <sup>w</sup> , 04:01:75-04:01:83, 04:03:01-04:10, 04:12-04:20, 04:23-04:32, 04:34-04:106, 04:108-04:115N, 04:117-04:129, 04:131-04:168, 04:170N-04:171, 04:173N-04:230, 04:232-04:276, 04:278-04:279N, 05:17, 05:25, 05:42, 05:55, 05:68, 05:76, 05:79, 05:115, 05:134, 05:143, 06:05, 06:31, 06:76:02, 06:118, 07:02:09, 07:31:01-07:31:02, 07:154, 07:177, 07:514, 07:583, 08:01:01:01-08:01:17, 08:01:19-08:01:21, 08:03:01-08:03:04, 08:06, 08:08:01-08:11, 08:14, 08:16:01-08:16:02, 08:20-08:22, 08:24, 08:26N, 08:28, 08:36N, 08:38, 08:40-08:42, 08:44, 08:46-08:47, 08:50, 08:56-08:61, 08:65, 08:72:01-08:72:02, 08:78-08:89N, 08:91, 08:95-08:99, 08:101-08:102, 08:105-08:106, 08:109, 08:117-08:119, 08:121N-08:122, 08:124, 08:127N-08:131, 08:133, 08:135-08:137, 08:141Q, 08:143-08:145, 08:147-08:149, 08:153, 12:14:01-12:14:02, 12:28, 12:58, 12:132, 12:135, 12:146, 12:169, 12:176, 12:181, 14:10, 14:15, 14:17, 14:87, 15:12, 15:25, 15:31, 15:62, 15:65, 15:75, 15:144, 16:01:01:01-16:02:13, 16:04:01:01-16:04:01:02, 16:04:03-16:04:05, 16:06-16:39:02, 16:41-16:42, 16:44-16:52, 16:54-16:109, 16:111-16:112 |
| <b>91<sup>10</sup></b>  | 225 bp,<br>250 bp,<br>290 bp | 800 bp  | *01:60, 02:40:01-02:40:02, 04:58, 04:160, 05:23, 05:62, 05:134, 05:143, 05:146, 05:151, 06:118, 08:07, 08:47, 08:104, 08:142, 12:14:01-12:14:02, 12:92, 12:176, 14:17, 15:25, 15:65, 17:01:01:02-17:38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>92</b>               | 215 bp,<br>420 bp            | 800 bp  | *01:02:01:01-01:20, 01:22-01:145N, 03:58, 03:86, 03:94, 03:99:01-03:99:02, 04:37, 04:230, 04:263, 05:16, 05:85, 05:107, 06:05-06:06, 06:17, 06:31, 06:204, 07:07, 07:09, 07:39-07:40, 07:49, 07:76:01-07:76:02, 07:177, 07:210, 07:238, 07:247, 07:315, 07:328, 07:335, 07:403, 07:406, 07:563, 07:598, 08:12, 12:09, 12:24, 12:176, 14:02:01:01-14:05, 14:07N, 14:10-14:14, 14:17-14:27, 14:29-14:52, 14:55-14:62, 14:64-14:76, 14:78-14:86, 14:88, 15:102, 16:04:01:01-16:04:01:02, 16:04:03-16:04:05, 16:29, 16:33, 16:42, 16:53, 16:55, 16:61, 16:66, 16:68,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|------------------------|-------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        |                   |               | 16:78, 16:82, 16:88, 16:91, 16:109, 18:01-18:10, <b>B*07:239, B*14:03</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>93</b>              | 325 bp,<br>380 bp | 1070 bp       | *01:03, 01:24, 01:34, 01:49:01-01:50, 01:55, 01:78, 01:131, 02:22, 02:62, 02:118, 03:03:01-03:04:55, 03:06:01-03:11:02, 03:14, 03:18:01-03:24, 03:26, 03:28-03:32, 03:34, 03:37:01-03:59, 03:61-03:70, 03:72-03:83, 03:85, 03:87:01-03:88, 03:90-03:93, 03:96, 03:98, 03:100-03:107, 03:109, 03:111-03:120, 03:122-03:131, 03:133-03:134, 03:136-03:138, 03:140-03:145, 03:147-03:153, 03:155-03:166, 03:168, 03:170-03:176, 03:179-03:189N, 03:191-03:193, 03:195-03:196, 03:202-03:215, 03:217-03:220, 03:223, 03:227-03:237, 03:239-03:244Q, 03:246-03:247, 03:250-03:257, 03:259-03:261, 03:262 <sup>?</sup> , 03:263:01-03:263:02, 03:265N-03:270, 03:272-03:291, 03:293-03:295, 03:297, 03:303-03:314, 03:316N-03:325, 03:327-03:328, 03:331, 03:333-03:334, 03:336-03:337, 03:339-03:348, 03:351-03:360, 03:362-03:364, 04:01:01-04:01:15, 04:01:17-04:01:83, 04:03:01-04:20, 04:24-04:53, 04:55-04:71, 04:73-04:107, 04:109-04:276, 04:278-04:279N, 05:01:01-05:01:35, 05:03, 05:05:01-05:21, 05:23-05:102, 05:104-05:106:02, 05:108-05:122, 05:124-05:131, 05:133-05:134, 05:136-05:146, 05:148-05:154N, 06:09, 06:14, 06:35, 06:72, 06:143-06:144, 07:10, 07:28, 07:41, 07:43:01-07:43:02, 07:184, 07:196, 07:367, 07:536, 07:568, 08:01:01-08:08:02, 08:10, 08:12-08:47, 08:49-08:63, 08:65-08:82, 08:84-08:107, 08:109-08:112, 08:114-08:151, 08:153, 12:31, 12:44, 12:144, 14:54, 15:02:01-01-15:13:01:02, 15:15-15:19, 15:21, 15:23-15:36, 15:38-15:54, 15:56-15:57, 15:59-15:64, 15:66-15:71, 15:73-15:101, 15:103-15:124, 15:126-15:145N, 16:45, 17:01:01-02-17:38, 18:01-18:10, <b>B*73:01<sup>w</sup></b> |
| <b>94<sup>12</sup></b> | 135 bp            | <b>800 bp</b> | *02:02:13, 02:02:29, 03:02:01-03:02:09, 03:02:11-03:03:20, 03:03:22-03:04:24, 03:04:27-03:11:02, 03:13:01-03:17:02, 03:18:02-03:38:02, 03:40:01-03:64:01, 03:65-03:66, 03:67 <sup>w</sup> , 03:68-03:98, 03:99:02-03:136, 03:138-03:143, 03:146-03:155, 03:157-03:165, 03:167-03:169Q, 03:171, 03:173-03:181, 03:183-03:194, 03:196-03:230, 03:232-03:247, 03:249-03:263:02, 03:265N-03:277N, 03:278 <sup>w</sup> , 03:279-03:294, 03:295 <sup>w</sup> , 03:296-03:323N, 03:325-03:341, 03:343, 03:345-03:360, 03:362-03:365, 04:32, 04:77, 04:265, 06:03:01, 06:132:01-06:132:02, 07:96:01-07:96:02, 07:314:02, 07:578, 14:25, 15:02:10, 15:02:17, 15:43, 18:03, <b>B*13:13:02, B*40:01:49</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>95<sup>12</sup></b> | 160 bp,<br>230 bp | 1070 bp       | *04:14, 04:42:01-04:42:02, 04:68, 04:220, 05:112, 06:02:01-01-06:02:01:08, 06:02:03-06:02:50, 06:04:01-06:75, 06:78-06:131, 06:133-06:204, 07:01:01-01-07:01:40, 07:01:41 <sup>w</sup> , 07:01:42-07:02:07, 07:02:09-07:02:28, 07:02:30-07:02:40, 07:02:41 <sup>w</sup> , 07:02:42-07:25, 07:27:01-07:32N, 07:35-07:38:02, 07:41-07:63, 07:65-07:91, 07:93-07:95, 07:97-07:138, 07:140-07:151, 07:153-07:155, 07:157-07:176, 07:178-07:209, 07:211-07:222, 07:223 <sup>w</sup> , 07:224-07:237, 07:239-07:245, 07:247-07:266, 07:268-07:294, 07:297-07:313, 07:315-07:316, 07:318-07:321, 07:323-07:334, 07:336-07:350N, 07:352-07:401, 07:403-07:404, 07:406-07:414, 07:415 <sup>w</sup> -07:416 <sup>w</sup> , 07:417-07:448, 07:450-07:492, 07:494Q-07:516, 07:518-07:577, 07:579-07:582Q, 07:584-07:599, 12:16, 12:147, 12:195:01-12:195:02, 15:75, 16:01:01-01-16:02:13, 16:06-16:28, 16:30N-16:32, 16:34, 16:36-16:39:02, 16:41, 16:43-16:47, 16:49-16:52, 16:54, 16:56-16:60, 16:62-16:65, 16:67, 16:69-16:77N, 16:79-16:81, 16:83-16:87, 16:89N-16:90, 16:92-16:102, 16:104-16:108, 16:111-16:113, 17:20, 18:01-18:08,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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Lot-specific information

|                  |   |   |                                                                          |
|------------------|---|---|--------------------------------------------------------------------------|
|                  |   |   | 18:10, A*24:64, A*24:96, A*24:106, A*24:174, B*08:16, B*08:123, B*08:145 |
| 96 <sup>14</sup> | - | - | Negative control                                                         |

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-C low resolution SSP typings.

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

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

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an 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 73 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>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 mix 74 will for most C\*02 alleles give rise to two specific PCR fragments.

<sup>6</sup>Primer mix 76 will for most C\*03 alleles give rise to two specific PCR fragments.

<sup>7</sup>Primer mix 81 will for most C\*07 alleles give rise to two specific PCR fragments.

<sup>8</sup>Primer mix 82 will for most C\*08 alleles give rise to multiple specific PCR fragments.

<sup>9</sup>Primer mix 89 will for most C\*15 alleles give rise to two specific PCR fragments.

<sup>10</sup>Primer mixes 84, 85 and 91 may have tendencies of unspecific amplifications.

<sup>11</sup>Primer mixes 88 and 90 have a tendency to giving rise to primer oligomer formation.

<sup>12</sup>Primer mixes 75, 78, 80, 82, 87, 94 and 95 may give rise to a lower yield of HLA-specific PCR fragments than the other HLA-C low resolution primer mixes.

<sup>13</sup>Primer mix 86 might faintly amplify most C\*01 and the C\*14 alleles.

<sup>14</sup>Primer mix 96 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 No.: **8F0**

Lot-specific information

## HLA-A LOW PRIMER SPECIFICATION

| Well No.                  | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec.           | 120       | 175       | 205       | 190       | 160       | 135       | 175       | 165       | 80        | 80        | 80        | 125       |
| PCR product               | 145       | 215       | 235       |           | 335       | 200       | 205       | 200       |           | 240       | 175       | 160       |
|                           | 225       | 255       |           |           | 505       |           |           |           |           |           | 500       | 190       |
|                           |           | 365       |           |           |           |           |           |           |           |           |           |           |
|                           |           | 415       |           |           |           |           |           |           |           |           |           |           |
| Length of int.            | 800       | 800       | 1070      | 800       | 1070      | 800       | 1070      | 800       | 800       | 800       | 1070      | 800       |
| pos. control <sup>1</sup> |           |           |           |           |           |           |           |           |           |           |           |           |
| 5'-primer(s) <sup>2</sup> | 98        | 48        | 357       | 98        | 144       | 176       | 98        | 98        | 257       | 98        | 301       | 103       |
|                           | 5'-CTT 3' | 5'-gCT 3' | 5'-ATg 3' | 5'-CTA 3' | 5'-gCC 3' | 5'-gCA 3' | 5'-CTC 3' | 5'-CTA 3' | 5'-Cgg 3' | 5'-CTA 3' | 5'-Cgg 3' | 5'-CCT 3' |
|                           | 103       | 78        | 363       | 413       | 317       | 368       | 368       | 102       | 259       | 261       | 302       | 415       |
|                           | 5'-CCT 3' | 5'-TCT 3' | 5'-ATA 3' | 5'-CCg 3' | 5'-gCT 3' | 5'-gTT 3' | 5'-gTT 3' | 5'-ACA 3' | 5'-AgA 3' | 5'-AAC 3' | 5'-ggA 3' | 5'-ggT 3' |
|                           | 123       | 106       | 363       |           |           |           |           | 413       | 261       |           | 385       | 423       |
|                           | 5'-AgT 3' | 5'-CCA 3' | 5'-ATA 3' |           |           |           |           | 5'-CCg 3' | 5'-AAC 3' |           | 5'-ggC 3' | 5'-gCT 3' |
|                           | 363       |           |           |           |           |           |           |           | 266       |           |           |           |
|                           | 5'-ATA 3' |           |           |           |           |           |           |           | 5'-ACg 3' |           |           |           |
| 3'-primer(s) <sup>3</sup> | 203       | 240       | 527       | 256       | 265       | 270       | 259       | 259       | 302       | 299       | 341       | 257       |
|                           | 5'-TCT 3' | 5'-ggA 3' | 5'-CCA 3' | 5'-CTg 3' | 5'-CCC 3' | 5'-ACA 3' | 5'-gTT 3' | 5'-gTT 3' | 5'-ggC 3' | 5'-TCg 3' | 5'-CgT 3' | 5'-gCA 3' |
|                           | 545       | 292       | 527       | 559       | 368       | 521       | 502       | 259       | 303       | 308       | 521       | 506       |
|                           | 5'-AgA 3' | 5'-gTg 3' | 5'-CCT 3' | 5'-CCg 3' | 5'-CAA 3' | 5'-ggg 3' | 5'-CTT 3' | 5'-gTT 3' | 5'-AgA 3' | 5'-TCT 3' | 5'-ggg 3' | 5'-TgT 3' |
|                           |           |           | 527       |           |           | 534       | 539       | 538       |           |           |           | 538       |
|                           |           |           | 5'-CCT 3' |           |           | 5'-CgT 3' | 5'-TCT 3' | 5'-CCA 3' |           |           |           | 5'-CCg 3' |
|                           |           |           | 555       |           |           |           |           |           |           |           |           | 559       |
|                           |           |           | 5'-CCA 3' |           |           |           |           |           |           |           |           | 5'-CTC 3' |
|                           |           |           | 555       |           |           |           |           |           |           |           |           | 559       |
|                           |           |           | 5'-gCA 3' |           |           |           |           |           |           |           |           | 5'-CgT 3' |
|                           |           |           |           |           |           |           |           |           |           |           |           | 559       |
|                           |           |           |           |           |           |           |           |           |           |           |           | 5'-CgC 3' |
|                           |           |           |           |           |           |           |           |           |           |           |           | 563       |
|                           |           |           |           |           |           |           |           |           |           |           |           | 5'-CgA 3' |
| Well No.                  | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        |

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Lot-specific information

| Well No.                  | 13        | 14        | 15        | 16        | 17        | 18        | 19        | 20                | 21        | 22        | 23        | 24        |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|-----------|-----------|-----------|-----------|
| Length of spec.           | 180       | 80        | 90        | 240       | 140       | 200       | 340       | 210               | 65        | 85        | 80        | 360       |
| PCR product               | 225       | 115       | 135       | 380       | 180       | 390       | 375       | 240               | 240       | 240       | 160       | 445       |
|                           |           | 200       | 205       | 410       | 240       |           |           |                   | 375       | 400       | 240       |           |
|                           |           | 240       |           |           | 260       |           |           |                   | 545       |           | 495       |           |
|                           |           | 460       |           |           |           |           |           |                   |           |           |           |           |
| Length of int.            | 1070      | 1070      | 1070      | 1070      | 1070      | 1070      | 800       | 800               | 800       | 800       | 800       | 1070      |
| pos. control <sup>1</sup> |           |           |           |           |           |           |           |                   |           |           |           |           |
| 5'-primer(s) <sup>2</sup> | 98        | 98        | 203       | 41        | 98        | 41        | 302       | 78                | 28        | 47        | 176       | 257       |
|                           | 5'-CTT 3' | 5'-CAC 3' | 5'-gAA 3' | 5'-CTT 3' | 5'-CTT 3' | 5'-CTT 3' | 5'-ggA 3' | 5'-TCT 3'         | 5'-TCg 3' | 5'-g.T 3' | 5'-gCA 3' | 5'-Cgg 3' |
|                           | 414       | 219       | 362       | 355       | 180       | 98        | 302       | 106               | 261       | 78        | 261       | 341       |
|                           | 5'-CAg 3' | 5'-gCA 3' | 5'-ggT 3' | 5'-CCg 3' | 5'-TTT 3' | 5'-CAC 3' | 5'-ggA 3' | 5'-CCA 3'         | 5'-AAC 3' | 5'-TCT 3' | 5'-AAC 3' | 5'-ggC 3' |
|                           | 423       | 238       | 363       |           | 203       |           | 341       | 2 <sup>nd</sup> I | 502       | 521       | 341       |           |
|                           | 5'-gCT 3' | 5'-AgA 3' | 5'-ATA 3' |           | 5'-gAA 3' |           | 5'-ggA 3' | 5'-CCT 3'         | 5'-CCC 3' | 5'-ggT 3' | 5'-ggA 3' |           |
|                           |           | 355       | 363       |           | 418       |           |           |                   |           | 527       | 355       |           |
|                           |           | 5'-CCg 3' | 5'-ATA 3' |           | 5'-AgC 3' |           |           |                   |           | 5'-TgC 3' | 5'-CCC 3' |           |
|                           |           | 489       | 363       |           |           |           |           |                   |           |           | 362       |           |
|                           |           | 5'-gCA 3' | 5'-ATA 3' |           |           |           |           |                   |           |           | 5'-gAg 3' |           |
|                           |           |           | 369       |           |           |           |           |                   |           |           | 362       |           |
|                           |           |           | 5'-TAC 3' |           |           |           |           |                   |           |           | 5'-gAg 3' |           |
| 3'-primer(s) <sup>3</sup> | 282       | 180       | 299       | 238       | 290       | 256       | 397       | 265               | 97        | 265       | 292       | 418       |
|                           | 5'-gAC 3' | 5'-TCA 3' | 5'-CCA 3' | 5'-CCT 3' | 5'-CAA 3' | 5'-CCC 3' | 5'-gAg 3' | 5'-CCC 3'         | 5'-ggT 3' | 5'-CCC 3' | 5'-gTg 3' | 5'-gTC 3' |
|                           | 282       | 257       | 411       | 238       | 299       | 259       |           | 282               | 355       | 282       | 292       |           |
|                           | 5'-gAC 3' | 5'-gCA 3' | 5'-TCA 3' | 5'-CCT 3' | 5'-TCT 3' | 5'-gTT 3' |           | 5'-gAC 3'         | 5'-gAC 3' | 5'-gAC 3' | 5'-gTT 3' |           |
|                           | 559       | 418       | 526       | 243       | 317       | 265       |           | 282               | 524       | 282       | 299       |           |
|                           | 5'-CCC 3' | 5'-gTC 3' | 5'-CCA 3' | 5'-TCA 3' | 5'-ggA 3' | 5'-CCC 3' |           | 5'-gAC 3'         | 5'-CAT 3' | 5'-gAC 3' | 5'-TCT 3' |           |
|                           | 560       | 555       |           | 265       | 555       | 265       |           | 502               |           | 570       | 555       |           |
|                           | 5'-ACC 3' | 5'-CCA 3' |           | 5'-CCC 3' | 5'-CCA 3' | 5'-CCC 3' |           | 5'-CTT 3'         |           | 5'-CAC 3' | 5'-CCA 3' |           |
|                           |           |           |           | 282       |           |           |           | 506               |           |           |           |           |
|                           |           |           |           | 5'-gAC 3' |           |           |           | 5'-TgT 3'         |           |           |           |           |
|                           |           |           |           | 555       |           |           |           |                   |           |           |           |           |
|                           |           |           |           | 5'-CCA 3' |           |           |           |                   |           |           |           |           |
| Well No.                  | 13        | 14        | 15        | 16        | 17        | 18        | 19        | 20                | 21        | 22        | 23        | 24        |

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

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

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

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Lot-specific information

## HLA-B LOW PRIMER SPECIFICATION

| Well No.                                    | 25        | 26        | 27        | 28        | 29        | 30        | 31                | 32        | 33        | 34        | 35        | 36                |
|---------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|-----------|-----------|-----------|-----------|-------------------|
| Length of spec.<br>PCR product              | 110       | 215       | 140       | 140       | 185       | 190       | 180               | 165       | 165       | 180       | 100       | 280               |
|                                             |           |           | 235       | 265       | 235       |           | 290               | 225       | 190       |           | 195       |                   |
|                                             |           |           |           |           |           |           |                   | 285       | 390       |           |           |                   |
|                                             |           |           |           |           |           |           |                   | 330       |           |           |           |                   |
| Length of int.<br>pos. control <sup>1</sup> | 800       | 1070      | 1070      | 800       | 800       | 800       | 1070              | 1070      | 1070      | 800       | 1070      | 1070              |
| 5'-primer(s) <sup>2</sup>                   | 527       | 97        | 209       | 103       | 103       | 103       | 45                | 45        | 45        | 420       | 206       | 419               |
|                                             | 5'-TgA 3' | 5'-TCg 3' | 5'-ggC 3' | 5'-CCg 3' | 5'-CCT 3' | 5'-CCg 3' | 5'-ggA 3'         | 5'-ggA 3' | 5'-ggA 3' | 5'-TTA 3' | 5'-AgA 3' | 5'-gTC 3'         |
|                                             | 539       |           | 363       | 103       | 103       | 418       |                   | 357       | 435       |           | 416       |                   |
|                                             | 5'-gCg 3' |           | 5'-AgC 3' | 5'-CCg 3' | 5'-CCT 3' | 5'-Agg 3' |                   | 5'-Tgg 3' | 5'-AAA 3' |           | 5'-CCg 3' |                   |
|                                             | 540       |           | 363       | 361       | 363       |           |                   | 412       |           |           | 420       |                   |
|                                             | 5'-gAC 3' |           | 5'-AgC 3' | 5'-AgT 3' | 5'-AAT 3' |           |                   | 5'-ATA 3' |           |           | 5'-TTA 3' |                   |
|                                             |           |           |           | 363       |           |           |                   |           |           |           | 420       |                   |
|                                             |           |           |           | 5'-AgC 3' |           |           |                   |           |           |           | 5'-TTC 3' |                   |
| 3'-primer(s) <sup>3</sup>                   | 605       | 272       | 309       | 193       | 246       | 246       | 1 <sup>st</sup> I | 206       | 266       | 559       | 256       | 3 <sup>rd</sup> I |
|                                             | 5'-gCT 3' | 5'-Tgg 3' | 5'-gTg 3' | 5'-CgT 3' | 5'-TAT 3' | 5'-TAT 3' | 5'-gAC 3'         | 5'-CCT 3' | 5'-TCC 3' | 5'-CTC 3' | 5'-CCC 3' | 5'-TAT 3'         |
|                                             |           | 272       | 312       | 193       | 246       | 572       | 165               | 538       | 559       |           | 272       |                   |
|                                             |           | 5'-TgA 3' | 5'-gCC 3' | 5'-CgT 3' | 5'-TAT 3' | 5'-gCC 3' | 5'-Tgg 3'         | 5'-gTC 3' | 5'-CAg 3' |           | 5'-Tgg 3' |                   |
|                                             |           |           | 559       | 463       | 559       |           |                   | 603       | 583       |           | 572       |                   |
|                                             |           |           | 5'-CAg 3' | 5'-gCT 3' | 5'-CTC 3' |           |                   | 5'-gTg 3' | 5'-gTg 3' |           | 5'-gCg 3' |                   |
|                                             |           |           |           | 583       |           |           |                   |           |           |           |           |                   |
|                                             |           |           |           | 5'-gTg 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.<br>PCR product              | 195       | 105       | 115       | 80        | 100       | 140       | 55        | 210       | 170       | 110       | 395       | 160       |
|                                             |           | 395       | 150       |           | 150       |           | 245       |           |           |           |           | 425       |
|                                             |           | 435       |           |           |           |           | 390       |           |           |           |           |           |
|                                             |           |           |           |           |           |           | 415       |           |           |           |           |           |
| Length of int.<br>pos. control <sup>1</sup> | 1070      | 1070      | 1070      | 1070      | 800       | 1070      | 1070      | 800       | 800       | 1070      | 1070      | 1070      |
| 5'-primer(s) <sup>2</sup>                   | 142       | 45        | 161       | 167       | 349       | 206       | 45        | 142       | 409       | 246       | 44        | 44        |
|                                             | 5'-TCT 3' | 5'-ggA 3' | 5'-Cgg 3' | 5'-gCT 3' | 5'-CTT 3' | 5'-gAC 3' | 5'-ggA 3' | 5'-TCT 3' | 5'-ggC 3' | 5'-gAA 3' | 5'-ggC 3' | 5'-ggC 3' |
|                                             | 419       | 540       |           |           | 355       |           | 368       | 368       | 420       |           |           | 357       |
|                                             | 5'-gTC 3' | 5'-gAC 3' |           |           | 5'-TCA 3' |           | 5'-gTT 3' | 5'-gTC 3' | 5'-TTA 3' |           |           | 5'-Tgg 3' |
|                                             |           |           |           |           |           |           | 557       |           |           |           |           |           |
|                                             |           |           |           |           |           |           | 5'-ggA 3' |           |           |           |           |           |
| 3'-primer(s) <sup>3</sup>                   | 301       | 272       | 234       | 204       | 412       | 301       | 259       | 311       | 544       | 317       | 272       | 302       |
|                                             | 5'-gTC 3' | 5'-TgC 3' | 5'-TCT 3' | 5'-TCT 3' | 5'-gTT 3' | 5'-gCT 3' | 5'-gTT 3' | 5'-ggg 3' | 5'-ggT 3' | 5'-ggA 3' | 5'-TgC 3' | 5'-ggC 3' |
|                                             | 301       | 272       | 272       |           | 463       | 302       | 259       | 311       |           | 320       |           | 302       |
|                                             | 5'-gTC 3' | 5'-TgT 3' | 5'-TgA 3' |           | 5'-gCT 3' | 5'-ggC 3' | 5'-gTT 3' | 5'-ggg 3' |           | 5'-AgT 3' |           | 5'-ggT 3' |
|                                             | 570       | 309       | 272       |           |           | 311       | 266       | 538       |           |           |           | 477       |
|                                             | 5'-CCg 3' | 5'-ATC 3' | 5'-Tgg 3' |           |           | 5'-ggT 3' | 5'-TCC 3' | 5'-gTC 3' |           |           |           | 5'-gCg 3' |
|                                             | 572       | 605       |           |           |           | 312       | 272       |           |           |           |           |           |
|                                             | 5'-gCg 3' | 5'-gCT 3' |           |           |           | 5'-AgT 3' | 5'-Tgg 3' |           |           |           |           |           |
|                                             |           |           |           |           |           |           | 292       |           |           |           |           |           |
|                                             |           |           |           |           |           |           | 5'-gTA 3' |           |           |           |           |           |
|                                             |           |           |           |           |           |           | 572       |           |           |           |           |           |
|                                             |           |           |           |           |           |           | 5'-gCg 3' |           |           |           |           |           |
| Well No.                                    | 37        | 38        | 39        | 40        | 41        | 42        | 43        | 44        | 45        | 46        | 47        | 48        |

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Lot-specific information

| Well No.                  | 49               | 50               | 51               | 52                             | 53               | 54               | 55               | 56               | 57               | 58               | 59               | 60               |
|---------------------------|------------------|------------------|------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Length of spec.           | 180              | 290              | 105              | 325                            | 80               | 215              | 130              | 90               | 90               | 145              | 120              | 430              |
| PCR product               |                  | 465              |                  |                                | 115              |                  | 280              | 410              | 175              | 430              | 210              |                  |
|                           |                  |                  |                  |                                | 160              |                  |                  |                  |                  |                  |                  |                  |
|                           |                  |                  |                  |                                | 195              |                  |                  |                  |                  |                  |                  |                  |
|                           |                  |                  |                  |                                | 225              |                  |                  |                  |                  |                  |                  |                  |
|                           |                  |                  |                  |                                | 260              |                  |                  |                  |                  |                  |                  |                  |
| Length of int.            | 1070             | 1070             | 1070             | 800                            | 1070             | 800              | 800              | 1070             | 1070             | 1070             | 800              | 1070             |
| pos. control <sup>1</sup> |                  |                  |                  |                                |                  |                  |                  |                  |                  |                  |                  |                  |
| 5'-primer(s) <sup>2</sup> | 355<br>5'-TCA 3' | 72<br>5'-gCT 3'  | 540<br>5'-gAC 3' | 1 <sup>st</sup> I<br>5'-CAg 3' | 355<br>5'-TCA 3' | 141<br>5'-ATT 3' | 209<br>5'-ggC 3' | 41<br>5'-CTg 3'  | 209<br>5'-ggC 3' | 48<br>5'-gCC 3'  | 357<br>5'-Tgg 3' | 49<br>5'-CAg 3'  |
|                           | 363<br>5'-Agg 3' | 209<br>5'-ggC 3' |                  |                                | 418<br>5'-Agg 3' | 357<br>5'-Tgg 3' | 209<br>5'-ggg 3' | 368<br>5'-gTT 3' | 363<br>5'-AgC 3' | 206<br>5'-gAA 3' |                  |                  |
|                           |                  |                  |                  |                                | 499<br>5'-TCT 3' |                  | 355<br>5'-TCA 3' |                  |                  |                  |                  |                  |
| 3'-primer(s) <sup>3</sup> | 499<br>5'-ggA 3' | 193<br>5'-CgT 3' | 603<br>5'-gTg 3' | 282<br>5'-gCC 3'               | 538<br>5'-gTC 3' | 309<br>5'-ATC 3' | 299<br>5'-TCA 3' | 282<br>5'-gCC 3' | 259<br>5'-gTT 3' | 309<br>5'-ATC 3' | 435<br>5'-TCT 3' | 309<br>5'-ATC 3' |
|                           |                  | 193<br>5'-TgT 3' | 605<br>5'-gCT 3' |                                | 572<br>5'-gCA 3' | 538<br>5'-gTC 3' | 583<br>5'-gTg 3' | 418<br>5'-gTC 3' | 499<br>5'-ggA 3' |                  | 527<br>5'-CCT 3' |                  |
|                           |                  | 387<br>5'-TCg 3' |                  |                                | 572<br>5'-gCg 3' |                  | 605<br>5'-gCT 3' |                  |                  |                  |                  |                  |
|                           |                  |                  |                  |                                | 573<br>5'-AgT 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.           | 145              | 300                            | 160              | 180              | 180              | 90               | 90               | 95               | 115              | 360                            | 350                            | 285              |
| PCR product               |                  |                                | 370              | 210              | 205              | 240              |                  |                  | 150              |                                |                                |                  |
| Length of int.            | 1070             | 1070                           | 1070             | 1070             | 1070             | 800              | 1070             | 1070             | 1070             | 1070                           | 1070                           | 800              |
| pos. control <sup>1</sup> |                  |                                |                  |                  |                  |                  |                  |                  |                  |                                |                                |                  |
| 5'-primer(s) <sup>2</sup> | 206<br>5'-gAA 3' | 1 <sup>st</sup> I<br>5'-CAg 3' | 15<br>5'-gCA 3'  | 141<br>5'-ATT 3' | 97<br>5'-TCg 3'  | 209<br>5'-ggC 3' | 207<br>5'-ACC 3' | 206<br>5'-gAC 3' | 165<br>5'-ACC 3' | 1 <sup>st</sup> I<br>5'-CAg 3' | 1 <sup>st</sup> I<br>5'-CAg 3' | 355<br>5'-TCA 3' |
|                           |                  |                                | 418<br>5'-Agg 3' | 420<br>5'-TTA 3' | 420<br>5'-TTA 3' | 209<br>5'-ggA 3' | 208<br>5'-CgT 3' |                  | 463<br>5'-TgA 3' |                                |                                | 363<br>5'-AgC 3' |
|                           |                  |                                |                  |                  |                  | 362<br>5'-ggT 3' | 209<br>5'-ggA 3' |                  |                  |                                |                                |                  |
|                           |                  |                                |                  |                  |                  |                  | 369<br>5'-TAC 3' |                  |                  |                                |                                |                  |
| 3'-primer(s) <sup>3</sup> | 311<br>5'-ggT 3' | 259<br>5'-CTC 3'               | 207<br>5'-TCC 3' | 311<br>5'-ggT 3' | 259<br>5'-gTT 3' | 256<br>5'-CCC 3' | 256<br>5'-CTC 3' | 259<br>5'-gTT 3' | 272<br>5'-TgC 3' | 317<br>5'-ggA 3'               | 311<br>5'-ggT 3'               | 603<br>5'-gTg 3' |
|                           |                  | 259<br>5'-CTC 3'               | 226<br>5'-CAC 3' | 559<br>5'-CgT 3' | 559<br>5'-CAg 3' | 259<br>5'-CTT 3' | 256<br>5'-CCC 3' |                  | 538<br>5'-CCA 3' | 320<br>5'-AgT 3'               |                                | 605<br>5'-gCT 3' |
|                           |                  | 262<br>5'-TgC 3'               | 538<br>5'-gTC 3' |                  |                  | 263<br>5'-gTT 3' | 420<br>5'-gCT 3' |                  |                  |                                |                                |                  |
|                           |                  |                                |                  |                  |                  | 559<br>5'-CgT 3' |                  |                  |                  |                                |                                |                  |
| Well No.                  | 61               | 62                             | 63               | 64               | 65               | 66               | 67               | 68               | 69               | 70                             | 71                             | 72               |

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#### Lot-specific information

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 25 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

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

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

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Lot-specific information

## HLA-C LOW PRIMER SPECIFICATION

| Well No.                  | 73        | 74              | 75        | 76        | 77        | 78        | 79              | 80              | 81        | 82              | 83              | 84        |
|---------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------------|-----------------|-----------|-----------------|-----------------|-----------|
| Length of spec.           | 90        | 130             | 280       | 85        | 280       | 135       | 170             | 125             | 245       | 110             | 155             | 100       |
| PCR product               | 150       | 200             |           | 170       |           | 330       | 390             | 355             | 425       | 165             | 255             | 155       |
|                           |           | 270             |           | 275       |           |           | 445             |                 |           | 390             | 340             | 220       |
|                           |           | 300             |           |           |           |           |                 |                 |           |                 |                 |           |
| Length of int.            | 800       | 800             | 800       | 1070      | 800       | 800       | 1070            | 800             | 800       | 800             | 1070            | 800       |
| pos. control <sup>1</sup> |           |                 |           |           |           |           |                 |                 |           |                 |                 |           |
| 5'-primer(s) <sup>2</sup> | 89        | 47              | 105       | 98        | 105       | 47        | 1 <sup>st</sup> | 28              | 47        | 1 <sup>st</sup> | 1 <sup>st</sup> | 361       |
|                           | 5'-gAA 3' | 5'-Agg 3'       | 5'-gCT 3' | 5'-CTT 3' | 5'-gCT 3' | 5'-Agg 3' | 5'-CgA 3'       | 5'-TCA 3'       | 5'-Agg 3' | 5'-CgA 3'       | 5'-CgA 3'       | 5'-AgT 3' |
|                           | 89        | 89              |           | 355       |           | 112       | 176             | 2 <sup>nd</sup> | 648       | 176             | 419             | 419       |
|                           | 5'-gAA 3' | 5'-gAA 3'       |           | 5'-TCA 3' |           | 5'-CCT 3' | 5'-gCA 3'       | 5'-CCA 3'       | 5'-CAC 3' | 5'-gCA 3'       | 5'-gTC 3'       | 5'-gTC 3' |
|                           | 89        | 2 <sup>nd</sup> |           | 459       |           | 118       | 527             |                 |           | 527             |                 |           |
|                           | 5'-gAA 3' | 5'-CCA 3'       |           | 5'-gAT 3' |           | 5'-CCA 3' | 5'-TgA 3'       |                 |           | 5'-TAC 3'       |                 |           |
|                           | 98        | 703             |           |           |           |           |                 |                 |           |                 |                 |           |
|                           | 5'-CTT 3' | 5'-CTA 3'       |           |           |           |           |                 |                 |           |                 |                 |           |
| 3'-primer(s) <sup>3</sup> | 142       | 176             | 343       | 142       | 343       | 201       | 302             | 213             | 302       | 302             | 118             | 474       |
|                           | 5'-TgA 3' | 5'-ACT 3'       | 5'-C 3'   | 5'-TgA 3' | 5'-T 3'   | 5'-CTT 3' | 5'-ggT 3'       | 5'-Cgg 3'       | 5'-ggC 3' | 5'-ggC 3'       | 5'-gCT 3'       | 5'-gCA 3' |
|                           | 201       | 559             | 343       | 589       |           | 218       | 307             | 409             | 853       | 595             | 218             | 477       |
|                           | 5'-CTT 3' | 5'-CTC 3'       | 5'-g 3'   | 5'-CTT 3' |           | 5'-gCT 3' | 5'-CCA 3'       | 5'-ATg 3'       | 5'-CAT 3' | 5'-CCC 3'       | 5'-gCT 3'       | 5'-gCA 3' |
|                           | 201       | 861             |           |           |           |           | 3 <sup>rd</sup> | 420             |           |                 | 302             | 538       |
|                           | 5'-CTC 3' | 5'-TCg 3'       |           |           |           |           | 5'-gCA 3'       | 5'-gCT 3'       |           |                 | 5'-ggT 3'       | 5'-gCA 3' |
|                           |           |                 |           |           |           |           |                 |                 |           |                 | 304             |           |
|                           |           |                 |           |           |           |           |                 |                 |           |                 | 5'-CAA 3'       |           |
|                           |           |                 |           |           |           |           |                 |                 |           |                 | 539             |           |
|                           |           |                 |           |           |           |           |                 |                 |           |                 | 5'-TCT 3'       |           |
| Well No.                  | 73        | 74              | 75        | 76        | 77        | 78        | 79              | 80              | 81        | 82              | 83              | 84        |

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Lot-specific information

| Well No.                  | 85                | 86        | 87        | 88                | 89                | 90                | 91                | 92        | 93                | 94        | 95        |
|---------------------------|-------------------|-----------|-----------|-------------------|-------------------|-------------------|-------------------|-----------|-------------------|-----------|-----------|
| Length of spec.           | 120               | 160       | 130       | 160               | 110               | 180               | 225               | 215       | 325               | 135       | 160       |
| PCR product               | 250               | 210       | 255       | 260               | 325               | 210               | 250               | 420       | 380               |           | 230       |
|                           |                   |           | 555       | 445               |                   | 240               | 290               |           |                   |           |           |
| Length of int.            | 800               | 800       | 1070      | 1070              | 800               | 1070              | 800               | 800       | 1070              | 800       | 1070      |
| pos. control <sup>1</sup> |                   |           |           |                   |                   |                   |                   |           |                   |           |           |
| 5'-primer(s) <sup>2</sup> | 201               | 97        | 98        | 97                | 201               | 201               | 2 <sup>nd</sup> I | 47        | 355               | 105       | 97        |
|                           | 5'-CCA 3'         | 5'-TCg 3' | 5'-CTA 3' | 5'-TCA 3'         | 5'-CCA 3'         | 5'-CCA 3'         | 5'-CCA 3'         | 5'-Agg 3' | 5'-TCA 3'         | 5'-gCT 3' | 5'-TCg 3' |
|                           | 218               | 361       | 368       | 98                | 409               | 2 <sup>nd</sup> I |                   | 117       | 412               | 459       | 97        |
|                           | 5'-ggA 3'         | 5'-AgT 3' | 5'-gTg 3' | 5'-CTC 3'         | 5'-ggC 3'         | 5'-CCA 3'         |                   | 5'-CCT 3' | 5'-ATA 3'         | 5'-gAT 3' | 5'-TTg 3' |
|                           | 2 <sup>nd</sup> I |           |           | 98                |                   | 361               |                   | 361       |                   |           | 361       |
|                           | 5'-CCA 3'         |           |           | 5'-CTT 3'         |                   | 5'-AgT 3'         |                   | 5'-AgT 3' |                   |           | 5'-AgT 3' |
|                           |                   |           |           | 194               |                   |                   |                   |           |                   |           | 418       |
|                           |                   |           |           | 5'-CgT 3'         |                   |                   |                   |           |                   |           | 5'-Agg 3' |
|                           |                   |           |           | 527               |                   |                   |                   |           |                   |           | 419       |
|                           |                   |           |           | 5'-TgA 3'         |                   |                   |                   |           |                   |           | 5'-gTC 3' |
|                           |                   |           |           |                   |                   |                   |                   |           |                   |           | 419       |
|                           |                   |           |           |                   |                   |                   |                   |           |                   |           | 5'-gTT 3' |
| 3'-primer(s) <sup>3</sup> | 289               | 218       | 312       | 311               | 270               | 341               | 512               | 289       | 3 <sup>rd</sup> I | 201       | 213       |
|                           | 5'-AgC 3'         | 5'-gCT 3' | 5'-AgT 3' | 5'-ggT 3'         | 5'-TAG 3'         | 5'-CgT 3'         | 5'-CCA 3'         | 5'-AgT 3' | 5'-CTC 3'         | 5'-CTC 3' | 5'-Cgg 3' |
|                           | 289               | 527       | 312       | 317               | 3 <sup>rd</sup> I | 343               | 538               | 302       |                   | 559       | 289       |
|                           | 5'-AgC 3'         | 5'-CCg 3' | 5'-AgT 3' | 5'-CgT 3'         | 5'-CTC 3'         | 5'-T 3'           | 5'-gTC 3'         | 5'-ggT 3' |                   | 5'-CTC 3' | 5'-AgC 3' |
|                           | 291               | 538       | 361       | 3 <sup>rd</sup> I |                   | 343               | 580               | 527       |                   |           | 289       |
|                           | 5'-TCg 3'         | 5'-CCA 3' | 5'-CCA 3' | 5'-gCA 3'         |                   | 5'-g 3'           | 5'-TCC 3'         | 5'-CCg 3' |                   |           | 5'-AgC 3' |
|                           | 539               | 538       | 459       |                   |                   | 527               |                   | 538       |                   |           | 539       |
|                           | 5'-TCT 3'         | 5'-gCA 3' | 5'-AgA 3' |                   |                   | 5'-CCg 3'         |                   | 5'-CCg 3' |                   |           | 5'-TCT 3' |
|                           |                   |           |           |                   |                   | 527               |                   |           |                   |           |           |
|                           |                   |           |           |                   |                   | 5'-CCg 3'         |                   |           |                   |           |           |
|                           |                   |           |           |                   |                   | 527               |                   |           |                   |           |           |
|                           |                   |           |           |                   |                   | 5'-CCg 3'         |                   |           |                   |           |           |
|                           |                   |           |           |                   |                   | 527               |                   |           |                   |           |           |
|                           |                   |           |           |                   |                   | 5'-CCg 3'         |                   |           |                   |           |           |
|                           |                   |           |           |                   |                   | 530               |                   |           |                   |           |           |
|                           |                   |           |           |                   |                   | 5'-CCA 3'         |                   |           |                   |           |           |
| Well No.                  | 85                | 86        | 87        | 88                | 89                | 90                | 91                | 92        | 93                | 94        | 95        |

<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 73 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

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

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

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Lot-specific information

| CELL LINE VALIDATION SHEET                   |                             |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|----------------------------------------------|-----------------------------|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A low resolution primer set <sup>2</sup> |                             |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                              |                             |        |        |            | Well      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                              |                             |        |        |            | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        | 13        | 14        | 15        | 16        |
|                                              |                             |        |        | Prod. No.: | 201787801 | 201785202 | 201787803 | 201785204 | 201674905 | 201785206 | 201674907 | 201785208 | 201785209 | 201787810 | 201785211 | 201785212 | 201785213 | 201674914 | 201674915 | 201785216 |
|                                              | IHWC cell line <sup>1</sup> | A*     | A*     |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 1                                            | 9001 SA                     | *24:02 |        |            | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 2                                            | 9280 LK707                  | *02:01 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 3                                            | 9011 E4181324               | *01:01 |        |            | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 4                                            | 9275 GU373                  | *30:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 5                                            | 9009 KAS011                 | *01:01 |        |            | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 6                                            | 9353 SM                     | *02:01 | *26:03 |            | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | +         | -         | -         | -         |
| 7                                            | 9020 QBL                    | *26:01 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         | +         | -         | -         | -         |
| 8                                            | 9025 DEU                    | *31:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 9                                            | 9026 YAR                    | *26:01 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         | +         | -         | -         | -         |
| 10                                           | 9107 LKT3                   | *24:02 |        |            | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 11                                           | 9051 PITOUT                 | *29:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 12                                           | 9052 DBB                    | *02:01 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 13                                           | 9004 JESTHOM                | *02:01 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 14                                           | 9071 OLGA                   | *31:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 15                                           | 9075 DKB                    | *24:02 |        |            | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 16                                           | 9037 SWEIG007               | *29:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 17                                           | 9282 CTM3953540             | *03:01 | *80:01 |            | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 18                                           | 9257 32367                  | *33:03 | *74:01 |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 19                                           | 9038 BM16                   | *02:01 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 20                                           | 9059 SLE005                 | *02:01 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 21                                           | 9064 AMALA                  | *02:17 |        |            | -         | +         | -         | -         | -         | -         | W         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 22                                           | 9056 KOSE                   | *02:01 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 23                                           | 9124 IHL                    | *02:01 | *34:01 |            | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | +         | +         | -         | -         | -         | -         |
| 24                                           | 9035 JBUSH                  | *32:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 25                                           | 9049 IBW9                   | *33:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 26                                           | 9285 WT49                   | *02:05 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 27                                           | 9191 CH1007                 | *24:10 | *29:01 |            | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 28                                           | 9320 BEL5GB                 | *02:01 | *29:02 |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 29                                           | 9050 MOU                    | *29:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 30                                           | 9021 RSH                    | *30:01 | *68:02 |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         |
| 31                                           | 9019 DUCAF                  | *30:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 32                                           | 9297 HAG                    | *02:01 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 33                                           | 9098 MT14B                  | *31:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 34                                           | 9104 DHIF                   | *31:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 35                                           | 9302 SSTO                   | *32:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 36                                           | 9024 KT17                   | *02:06 | *11:01 |            | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         |
| 37                                           | 9065 HHKB                   | *03:01 |        |            | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 38                                           | 9099 LZL                    | *02:17 |        |            | -         | +         | -         | -         | -         | -         | W         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 39                                           | 9315 CML                    | *01:01 | *03:01 |            | +         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 40                                           | 9134 WHONP199               | *02:07 | *30:01 |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 41                                           | 9055 H0301                  | *03:01 |        |            | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 42                                           | 9066 TAB089                 | *02:07 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 43                                           | 9076 T7526                  | *02:06 | *02:07 |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 44                                           | 9057 TEM                    | *66:01 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | +         | -         | -         | -         |
| 45                                           | 9239 SHJO                   | *23:01 | *24:02 |            | -         | -         | -         | -         | +         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 46                                           | 9013 SCHU                   | *03:01 |        |            | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 47                                           | 9045 TUBO                   | *02:16 | *03:01 |            | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 48                                           | 9303 TER-ND                 | *02:01 | *11:01 |            | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         |

101.702-24/06 – including *Taq* pol., IFU-01  
101.702-24u/06u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **8F0**

Lot-specific information

| CELL LINE VALIDATION SHEET                   |                             |            |        |        |            |           |           |           |           |           |           |           |           |
|----------------------------------------------|-----------------------------|------------|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A low resolution primer set <sup>2</sup> |                             |            |        |        |            |           |           |           |           |           |           |           |           |
|                                              |                             |            |        |        | Prod. No.: | Well      |           |           |           |           |           |           |           |
|                                              |                             |            |        |        |            | 17        | 18        | 19        | 20        | 21        | 22        | 23        | 24        |
|                                              |                             |            |        |        |            | 201787817 | 201785218 | 201674919 | 201674920 | 201787821 | 201787822 | 201779223 | 201787824 |
|                                              | IHCW cell line <sup>1</sup> |            | A*     | A*     |            |           |           |           |           |           |           |           |           |
| 1                                            | 9001                        | SA         | *24:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 2                                            | 9280                        | LK707      | *02:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 3                                            | 9011                        | E4181324   | *01:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 4                                            | 9275                        | GU373      | *30:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 5                                            | 9009                        | KAS011     | *01:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 6                                            | 9353                        | SM         | *02:01 | *26:03 |            | -         | -         | -         | -         | -         | -         | +         | -         |
| 7                                            | 9020                        | QBL        | *26:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 8                                            | 9025                        | DEU        | *31:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 9                                            | 9026                        | YAR        | *26:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 10                                           | 9107                        | LKT3       | *24:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 11                                           | 9051                        | PITOUT     | *29:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 12                                           | 9052                        | DBB        | *02:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 13                                           | 9004                        | JESTHOM    | *02:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 14                                           | 9071                        | OLGA       | *31:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 15                                           | 9075                        | DKB        | *24:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 16                                           | 9037                        | SWEIG007   | *29:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 17                                           | 9282                        | CTM3953540 | *03:01 | *80:01 |            | -         | -         | -         | -         | -         | -         | +         | -         |
| 18                                           | 9257                        | 32367      | *33:03 | *74:01 |            | -         | +         | +         | -         | -         | -         | -         | -         |
| 19                                           | 9038                        | BM16       | *02:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 20                                           | 9059                        | SLE005     | *02:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 21                                           | 9064                        | AMALA      | *02:17 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 22                                           | 9056                        | KOSE       | *02:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 23                                           | 9124                        | IHL        | *02:01 | *34:01 |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 24                                           | 9035                        | JBUSH      | *32:01 |        |            | +         | -         | -         | -         | -         | -         | -         | -         |
| 25                                           | 9049                        | IBW9       | *33:01 |        |            | -         | +         | -         | -         | -         | -         | -         | -         |
| 26                                           | 9285                        | WT49       | *02:05 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 27                                           | 9191                        | CH1007     | *24:10 | *29:01 |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 28                                           | 9320                        | BEL5GB     | *02:01 | *29:02 |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 29                                           | 9050                        | MOU        | *29:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 30                                           | 9021                        | RSH        | *30:01 | *68:02 |            | -         | -         | -         | +         | -         | -         | -         | -         |
| 31                                           | 9019                        | DUCAF      | *30:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 32                                           | 9297                        | HAG        | *02:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 33                                           | 9098                        | MT14B      | *31:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 34                                           | 9104                        | DHIF       | *31:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 35                                           | 9302                        | SSTO       | *32:01 |        |            | +         | -         | -         | -         | -         | -         | -         | -         |
| 36                                           | 9024                        | KT17       | *02:06 | *11:01 |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 37                                           | 9065                        | HHKB       | *03:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 38                                           | 9099                        | LZL        | *02:17 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 39                                           | 9315                        | CML        | *01:01 | *03:01 |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 40                                           | 9134                        | WHONP199   | *02:07 | *30:01 |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 41                                           | 9055                        | H0301      | *03:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 42                                           | 9066                        | TAB089     | *02:07 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 43                                           | 9076                        | T7526      | *02:06 | *02:07 |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 44                                           | 9057                        | TEM        | *66:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 45                                           | 9239                        | SHJO       | *23:01 | *24:02 |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 46                                           | 9013                        | SCHU       | *03:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 47                                           | 9045                        | TUBO       | *02:16 | *03:01 |            | -         | -         | -         | -         | -         | -         | -         | -         |
| 48                                           | 9303                        | TER-ND     | *02:01 | *11:01 |            | -         | -         | -         | -         | -         | -         | -         | -         |

<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.

101.702-24/06 – including *Taq* pol., IFU-01  
101.702-24u/06u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **8F0**

#### Lot-specific information

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

Additional 5'- and 3'-primers in primer solutions 4, 5, 7, 8, 12, 14 to 17 and 20 to 23 were tested by separately adding one or more 3'-primers, respectively one or more 5'-primers.

Additional 5'-primers in primer solution 1, 9, 13, 19 and 24 were tested by separately adding one or two 3'-primers.

Additional 3'-primers in primer solutions 3, 10 and 18 were tested by separately adding one or two 5'-primers. In primer solutions 2, 3, 9, 11, 12, 15 and 22 one or two 5'-primers were not possible to test, and in primer solutions 3, 6, 8, 9, 12, 13, 16 and 18 one or two 3'-primers were not possible to test.

101.702-24/06 – including *Taq* pol., IFU-01  
101.702-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **8F0**

Lot-specific information

| CELL LINE VALIDATION SHEET                |                             |            |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|-------------------------------------------|-----------------------------|------------|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B low resolution SSP kit <sup>2</sup> |                             |            |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                           |                             |            |        |        | Prod. No.: | Well      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                           |                             |            |        |        |            | 25        | 26        | 27        | 28        | 29        | 30        | 31        | 32        | 33        | 34        | 35        | 36        | 37        | 38        | 39        | 40        |
|                                           |                             |            |        |        |            | 201673601 | 201673602 | 201673603 | 201673604 | 201673605 | 201673606 | 201673607 | 201673608 | 201785309 | 201776710 | 201776711 | 201673612 | 201673613 | 201673614 | 201673615 | 201673616 |
|                                           | IHWC cell line <sup>1</sup> |            | B*     |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 1                                         | 9001                        | SA         | *07:02 |        | +          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 2                                         | 9280                        | LK707      | *52:01 | *73:01 | -          | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         |           |
| 3                                         | 9011                        | E4181324   | *52:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         |           |
| 4                                         | 9275                        | GU373      | *15:10 | *53:01 | -          | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | +         | -         |           |
| 5                                         | 9009                        | KAS011     | *37:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |           |
| 6                                         | 9353                        | SM         | *39:01 | *51:01 | -          | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         |           |
| 7                                         | 9020                        | QBL        | *18:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |           |
| 8                                         | 9025                        | DEU        | *35:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |           |
| 9                                         | 9026                        | YAR        | *38:01 |        | -          | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 10                                        | 9107                        | LKT3       | *54:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 11                                        | 9051                        | PITOUT     | *44:03 |        | -          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 12                                        | 9052                        | DBB        | *57:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |           |
| 13                                        | 9004                        | JESTHOM    | *27:05 |        | -          | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |           |
| 14                                        | 9071                        | OLGA       | *15:01 | *15:20 | -          | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         |           |
| 15                                        | 9075                        | DKB        | *40:01 |        | -          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 16                                        | 9037                        | SWEIG007   | *40:02 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 17                                        | 9282                        | CTM3953540 | *08:01 | *55:01 | -          | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |           |
| 18                                        | 9257                        | 32367      | *14:01 | *56:01 | -          | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 19                                        | 9038                        | BM16       | *18:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |           |
| 20                                        | 9059                        | SLE005     | *40:01 |        | -          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 21                                        | 9064                        | AMALA      | *15:01 |        | -          | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         |           |
| 22                                        | 9056                        | KOSE       | *35:03 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 23                                        | 9124                        | IHL        | *40:02 | *56:02 | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 24                                        | 9035                        | JBUSH      | *38:01 |        | -          | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 25                                        | 9049                        | IBW9       | *14:02 |        | -          | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 26                                        | 9285                        | WT49       | *58:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |           |
| 27                                        | 9191                        | CH1007     | *07:05 | *51:01 | +          | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         |           |
| 28                                        | 9320                        | BEL5GB     | *44:02 | *44:03 | -          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 29                                        | 9050                        | MOU        | *44:03 |        | -          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 30                                        | 9021                        | RSH        | *42:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |           |
| 31                                        | 9019                        | DUCAF      | *18:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |           |
| 32                                        | 9297                        | HAG        | *41:02 |        | -          | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |           |
| 33                                        | 9098                        | MT14B      | *40:01 |        | -          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 34                                        | 9104                        | DHIF       | *38:01 |        | -          | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 35                                        | 9302                        | SSTO       | *44:02 |        | -          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 36                                        | 9024                        | KT17       | *15:01 | *35:01 | -          | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         |           |
| 37                                        | 9065                        | HHKB       | *07:02 |        | +          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 38                                        | 9099                        | LZL        | *15:01 |        | -          | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         |           |
| 39                                        | 9315                        | CML        | *08:01 | *27:05 | -          | +         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         |           |
| 40                                        | 9134                        | WHONP199   | *13:02 | *46:01 | -          | -         | +         | +         | -         | -         | -         | +         | -         | -         | +         | -         | +         | -         | -         | -         |           |
| 41                                        | 9055                        | H0301      | *14:02 |        | -          | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 42                                        | 9066                        | TAB089     | *46:01 |        | -          | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         |           |
| 43                                        | 9076                        | T7526      | *46:01 |        | -          | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         |           |
| 44                                        | 9057                        | TEM        | *38:01 |        | -          | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 45                                        | 9239                        | SHJO       | *42:01 | *50:01 | -          | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |           |
| 46                                        | 9013                        | SCHU       | *07:02 |        | +          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 47                                        | 9045                        | TUBO       | *51:01 |        | -          | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         |           |
| 48                                        | 9303                        | TER-ND     | *35:01 | *44:03 | -          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         |           |

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

### Lot-specific information

For *In Vitro* Diagnostic Use

101.702-24/06 – including *Taq* pol., IFU-01  
101.702-24u/06u – without *Taq* pol., IFU-02

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

Lot No.: **8F0**

Lot-specific information

| CELL LINE VALIDATION SHEET                |                             |  |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |  |
|-------------------------------------------|-----------------------------|--|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
| HLA-B low resolution SSP kit <sup>2</sup> |                             |  |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |  |
|                                           |                             |  |        |        | Prod. No.: | Well      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |  |
|                                           |                             |  |        |        |            | 57        | 58        | 59        | 60        | 61        | 62        | 63        | 64        | 65        | 66        | 67        | 68        | 69        | 70        | 71        | 72        |  |  |
|                                           |                             |  |        |        |            | 201673633 | 201673634 | 201673635 | 201673636 | 201673637 | 201673638 | 201673639 | 201673640 | 201776741 | 201673642 | 201673643 | 201673644 | 201673645 | 201785346 | 201673647 | 201673648 |  |  |
|                                           | IHWC cell line <sup>1</sup> |  | B*     |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |  |
| 1                                         | 9001 SA                     |  | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |  |  |
| 2                                         | 9280 LK707                  |  | *52:01 | *73:01 |            | -         | -         | +         | +         | -         | +         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |  |  |
| 3                                         | 9011 E4181324               |  | *52:01 |        |            | -         | -         | +         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 4                                         | 9275 GU373                  |  | *15:10 | *53:01 |            | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | +         | -         |  |  |
| 5                                         | 9009 KAS011                 |  | *37:01 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 6                                         | 9353 SM                     |  | *39:01 | *51:01 |            | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | +         | -         |  |  |
| 7                                         | 9020 QBL                    |  | *18:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |  |
| 8                                         | 9025 DEU                    |  | *35:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |  |
| 9                                         | 9026 YAR                    |  | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 10                                        | 9107 LKT3                   |  | *54:01 |        |            | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | +         | -         |  |  |
| 11                                        | 9051 PITOUT                 |  | *44:03 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 12                                        | 9052 DBB                    |  | *57:01 |        |            | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         |  |  |
| 13                                        | 9004 JESTHOM                |  | *27:05 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 14                                        | 9071 OLGA                   |  | *15:01 | *15:20 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |  |  |
| 15                                        | 9075 DKB                    |  | *40:01 |        |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |  |  |
| 16                                        | 9037 SWEIG007               |  | *40:02 |        |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |  |  |
| 17                                        | 9282 CTM3953540             |  | *08:01 | *55:01 |            | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | +         |  |  |
| 18                                        | 9257 32367                  |  | *14:01 | *56:01 |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         |  |  |
| 19                                        | 9038 BM16                   |  | *18:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |  |
| 20                                        | 9059 SLE005                 |  | *40:01 |        |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |  |  |
| 21                                        | 9064 AMALA                  |  | *15:01 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |  |  |
| 22                                        | 9056 KOSE                   |  | *35:03 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |  |
| 23                                        | 9124 IHL                    |  | *40:02 | *56:02 |            | -         | -         | -         | -         | +         | +         | -         | -         | +         | -         | +         | -         | -         | -         | +         | -         |  |  |
| 24                                        | 9035 JBUSH                  |  | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 25                                        | 9049 IBW9                   |  | *14:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |  |  |
| 26                                        | 9285 WT49                   |  | *58:01 |        |            | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         |  |  |
| 27                                        | 9191 CH1007                 |  | *07:05 | *51:01 |            | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | +         | +         |  |  |
| 28                                        | 9320 BEL5GB                 |  | *44:02 | *44:03 |            | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 29                                        | 9050 MOU                    |  | *44:03 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 30                                        | 9021 RSH                    |  | *42:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |  |  |
| 31                                        | 9019 DUCAF                  |  | *18:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |  |  |
| 32                                        | 9297 HAG                    |  | *41:02 |        |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |  |  |
| 33                                        | 9098 MT14B                  |  | *40:01 |        |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |  |  |
| 34                                        | 9104 DHIF                   |  | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 35                                        | 9302 SSTO                   |  | *44:02 |        |            | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 36                                        | 9024 KT17                   |  | *15:01 | *35:01 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | +         | -         | +         | -         |  |  |
| 37                                        | 9065 HHKB                   |  | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |  |  |
| 38                                        | 9099 LZL                    |  | *15:01 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |  |  |
| 39                                        | 9315 CML                    |  | *08:01 | *27:05 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         |  |  |
| 40                                        | 9134 WHONP199               |  | *13:02 | *46:01 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |  |  |
| 41                                        | 9055 H0301                  |  | *14:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |  |  |
| 42                                        | 9066 TAB089                 |  | *46:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |  |  |
| 43                                        | 9076 T7526                  |  | *46:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |  |  |
| 44                                        | 9057 TEM                    |  | *38:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |  |  |
| 45                                        | 9239 SHJO                   |  | *42:01 | *50:01 |            | -         | -         | +         | -         | +         | +         | -         | -         | +         | -         | -         | -         | -         | -         | +         | +         |  |  |
| 46                                        | 9013 SCHU                   |  | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |  |  |
| 47                                        | 9045 TUBO                   |  | *51:01 |        |            | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         |  |  |
| 48                                        | 9303 TER-ND                 |  | *35:01 | *44:03 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | +         | +         | -         |  |  |

<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.

101.702-24/06 – including *Taq* pol., IFU-01  
101.702-24u/06u – without *Taq* pol., IFU-02

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

**Lot No.: 8F0**

**Lot-specific information**

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

Additional 5'-primers and 3'-primers in primer solutions 27, 30, 35, 38, 43, 53, 55, 64 and 65 were tested by separately adding one or two additional 3'-primers, respectively one or two additional 5'-primers. Additional 3'-primers in primer solutions 26, 32, 37, 39 and 42 were tested by separately adding one, two or three additional 5'-primers. Additional 5'-primers in primer solutions 25, 45, 49 and 72 were tested by separately adding one or two additional 3'-primers.

In primer mixes 35, 41, 55, 66 and 67 one or two 5'-primers were not possible to test, and in primer mixes 27, 31, 46, 53, 62, 63, 66 and 70 one or two 3'-primer were not possible to test.

101.702-24/06 – including *Taq* pol., IFU-01  
101.702-24u/06u – without *Taq* pol., IFU-02

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

Lot No.: **8F0**

Lot-specific information

| CELL LINE VALIDATION SHEET                       |                             |            |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------------------------------------------|-----------------------------|------------|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-C low resolution SSP primer set <sup>2</sup> |                             |            |        |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                                  |                             |            |        |        | Prod. No.: | Well      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                                                  |                             |            |        |        |            | 73        | 74        | 75        | 76        | 77        | 78        | 79        | 80        | 81        | 82        | 83        | 84        | 85        | 86        | 87        | 88        |
|                                                  |                             |            |        |        |            | 201786701 | 201786702 | 201786703 | 201786704 | 201786705 | 201786706 | 201786707 | 201786708 | 201786709 | 201786710 | 201786711 | 201786712 | 201550813 | 201786714 | 201673015 | 201786716 |
|                                                  | IHWC cell line <sup>1</sup> |            | C*     |        |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 1                                                | 9001                        | SA         | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 2                                                | 9280                        | LK707      | *07:01 | *15:05 |            | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | +         | -         |
| 3                                                | 9011                        | E4181324   | *12:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         |
| 4                                                | 9275                        | GU373      | *03:04 | *04:01 |            | -         | -         | +         | +         | -         | +         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         |
| 5                                                | 9009                        | KAS011     | *06:02 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         | +         | -         | -         |
| 6                                                | 9353                        | SM         | *03:04 | *07:02 |            | -         | -         | +         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 7                                                | 9020                        | QBL        | *05:01 |        |            | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | +         | -         |
| 8                                                | 9007                        | DEM        | *04:01 |        |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         |
| 9                                                | 9026                        | YAR        | *12:03 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         | -         |
| 10                                               | 9107                        | LKT3       | *01:02 |        |            | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 11                                               | 9051                        | PITOUT     | *16:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         |
| 12                                               | 9052                        | DBB        | *06:02 |        |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         | +         | -         | -         |
| 13                                               | 9004                        | JESTHOM    | *01:02 |        |            | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 14                                               | 9071                        | OLGA       | *01:02 | *03:04 |            | +         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 15                                               | 9075                        | DKB        | *03:04 |        |            | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 16                                               | 9037                        | SWEIG007   | *02:02 |        |            | -         | +         | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 17                                               | 9282                        | CTM3953540 | *03:03 | *07:01 |            | -         | -         | -         | +         | +         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 18                                               | 9257                        | 32367      | *01:02 | *07:05 |            | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 19                                               | 9038                        | BM16       | *07:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 20                                               | 9059                        | SLE005     | *03:04 |        |            | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 21                                               | 9064                        | AMALA      | *03:03 |        |            | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 22                                               | 9056                        | KOSE       | *12:03 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         | -         |
| 23                                               | 9124                        | IHL        | *01:02 | *15:02 |            | +         | -         | +         | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         | -         | +         | -         |
| 24                                               | 9035                        | JBUSH      | *12:03 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         | -         |
| 25                                               | 9049                        | IBW9       | *08:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         |
| 26                                               | 9285                        | WT49       | *07:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 27                                               | 9191                        | CH1007     | *07:04 | *15:05 |            | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | +         | -         |
| 28                                               | 9320                        | BEL5GB     | *05:01 | *16:01 |            | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | +         | -         | +         | -         |
| 29                                               | 9050                        | MOU        | *16:01 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         |
| 30                                               | 9021                        | RSH        | *17:01 |        |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         |
| 31                                               | 9019                        | DUCAF      | *05:01 |        |            | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | +         | -         |
| 32                                               | 9297                        | HAG        | *17:01 | *17:03 |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         |
| 33                                               | 9098                        | MT14B      | *03:04 |        |            | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 34                                               | 9104                        | DHIF       | *12:03 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         | -         |
| 35                                               | 9302                        | SSTO       | *05:01 |        |            | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | +         | -         |
| 36                                               | 9024                        | KT17       | *03:03 | *04:01 |            | -         | -         | -         | +         | +         | +         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         |
| 37                                               | 9065                        | HHKB       | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 38                                               | 9099                        | LZL        | *03:03 |        |            | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 39                                               | 9315                        | CML        | *02:02 | *07:01 |            | -         | +         | +         | -         | -         | +         | -         | -         | +         | -         | +         | -         | -         | -         | +         | -         |
| 40                                               | 9134                        | WHONP199   | *01:02 | *06:02 |            | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         | +         | -         | -         |
| 41                                               | 9055                        | H0301      | *08:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         |
| 42                                               | 9066                        | TAB089     | *01:02 |        |            | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 43                                               | 9076                        | T7526      | *01:02 | *08:01 |            | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         |
| 44                                               | 9057                        | TEM        | *12:03 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         | -         |
| 45                                               | 9239                        | SHJO       | *06:02 | *17:01 |            | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         | +         | +         | -         |
| 46                                               | 9013                        | SCHU       | *07:02 |        |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 47                                               | 9045                        | TUBO       | *07:04 | *15:02 |            | -         | -         | +         | -         | -         | -         | -         | +         | +         | -         | +         | -         | -         | -         | +         | -         |
| 48                                               | 9303                        | TER-ND     | *04:01 | *16:01 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         |

101.702-24/06 – including *Taq* pol., IFU-01  
101.702-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **8F0**

Lot-specific information

| CELL LINE VALIDATION SHEET                       |                             |        |        |  |  |            |           |           |           |
|--------------------------------------------------|-----------------------------|--------|--------|--|--|------------|-----------|-----------|-----------|
| HLA-C low resolution SSP primer set <sup>2</sup> |                             |        |        |  |  |            |           |           |           |
|                                                  |                             |        |        |  |  | Well       |           |           |           |
|                                                  |                             |        |        |  |  | 89         | 90        | 91        | 92        |
|                                                  |                             |        |        |  |  | Prod. No.: | 201786717 | 201786718 | 201786719 |
|                                                  |                             |        |        |  |  |            |           |           |           |
|                                                  |                             |        |        |  |  |            | 201786720 | 201786721 | 201786722 |
|                                                  |                             |        |        |  |  |            |           |           |           |
|                                                  |                             |        |        |  |  |            | 201786723 |           |           |
|                                                  |                             |        |        |  |  |            |           |           |           |
|                                                  | IHWC cell line <sup>1</sup> | C*     |        |  |  |            |           |           |           |
| 1                                                | 9001 SA                     | *07:02 |        |  |  | -          | -         | -         | +         |
| 2                                                | 9280 LK707                  | *07:01 | *15:05 |  |  | +          | -         | -         | +         |
| 3                                                | 9011 E4181324               | *12:02 |        |  |  | -          | -         | -         | -         |
| 4                                                | 9275 GU373                  | *03:04 | *04:01 |  |  | -          | +         | -         | +         |
| 5                                                | 9009 KAS011                 | *06:02 |        |  |  | -          | -         | -         | +         |
| 6                                                | 9353 SM                     | *03:04 | *07:02 |  |  | -          | -         | -         | +         |
| 7                                                | 9020 QBL                    | *05:01 |        |  |  | -          | -         | -         | +         |
| 8                                                | 9007 DEM                    | *04:01 |        |  |  | -          | +         | -         | -         |
| 9                                                | 9026 YAR                    | *12:03 |        |  |  | -          | -         | -         | -         |
| 10                                               | 9107 LKT3                   | *01:02 |        |  |  | -          | -         | +         | -         |
| 11                                               | 9051 PITOUT                 | *16:01 |        |  |  | -          | +         | -         | +         |
| 12                                               | 9052 DBB                    | *06:02 |        |  |  | -          | -         | -         | +         |
| 13                                               | 9004 JESTHOM                | *01:02 |        |  |  | -          | -         | +         | -         |
| 14                                               | 9071 OLGA                   | *01:02 | *03:04 |  |  | -          | -         | +         | +         |
| 15                                               | 9075 DKB                    | *03:04 |        |  |  | -          | -         | -         | +         |
| 16                                               | 9037 SWEIG007               | *02:02 |        |  |  | -          | -         | -         | -         |
| 17                                               | 9282 CTM3953540             | *03:03 | *07:01 |  |  | -          | -         | -         | +         |
| 18                                               | 9257 32367                  | *01:02 | *07:05 |  |  | -          | -         | +         | -         |
| 19                                               | 9038 BM16                   | *07:01 |        |  |  | -          | -         | -         | +         |
| 20                                               | 9059 SLE005                 | *03:04 |        |  |  | -          | -         | -         | +         |
| 21                                               | 9064 AMALA                  | *03:03 |        |  |  | -          | -         | -         | +         |
| 22                                               | 9056 KOSE                   | *12:03 |        |  |  | -          | -         | -         | -         |
| 23                                               | 9124 IHL                    | *01:02 | *15:02 |  |  | +          | -         | +         | -         |
| 24                                               | 9035 JBUSH                  | *12:03 |        |  |  | -          | -         | -         | -         |
| 25                                               | 9049 IBW9                   | *08:02 |        |  |  | -          | -         | -         | +         |
| 26                                               | 9285 WT49                   | *07:01 |        |  |  | -          | -         | -         | +         |
| 27                                               | 9191 CH1007                 | *07:04 | *15:05 |  |  | +          | -         | -         | +         |
| 28                                               | 9320 BEL5GB                 | *05:01 | *16:01 |  |  | -          | +         | -         | +         |
| 29                                               | 9050 MOU                    | *16:01 |        |  |  | -          | +         | -         | +         |
| 30                                               | 9021 RSH                    | *17:01 |        |  |  | -          | -         | +         | -         |
| 31                                               | 9019 DUCAF                  | *05:01 |        |  |  | -          | -         | -         | +         |
| 32                                               | 9297 HAG                    | *17:01 | *17:03 |  |  | -          | -         | +         | -         |
| 33                                               | 9098 MT14B                  | *03:04 |        |  |  | -          | -         | -         | +         |
| 34                                               | 9104 DHIF                   | *12:03 |        |  |  | -          | -         | -         | -         |
| 35                                               | 9302 SSTO                   | *05:01 |        |  |  | -          | -         | -         | +         |
| 36                                               | 9024 KT17                   | *03:03 | *04:01 |  |  | -          | +         | -         | +         |
| 37                                               | 9065 HHKB                   | *07:02 |        |  |  | -          | -         | -         | +         |
| 38                                               | 9099 LZL                    | *03:03 |        |  |  | -          | -         | -         | +         |
| 39                                               | 9315 CML                    | *02:02 | *07:01 |  |  | -          | -         | -         | +         |
| 40                                               | 9134 WHONP199               | *01:02 | *06:02 |  |  | -          | -         | +         | +         |
| 41                                               | 9055 H0301                  | *08:02 |        |  |  | -          | -         | -         | +         |
| 42                                               | 9066 TAB089                 | *01:02 |        |  |  | -          | -         | +         | -         |
| 43                                               | 9076 T7526                  | *01:02 | *08:01 |  |  | -          | +         | -         | +         |
| 44                                               | 9057 TEM                    | *12:03 |        |  |  | -          | -         | -         | -         |
| 45                                               | 9239 SHJO                   | *06:02 | *17:01 |  |  | -          | -         | +         | +         |
| 46                                               | 9013 SCHU                   | *07:02 |        |  |  | -          | -         | -         | +         |
| 47                                               | 9045 TUBO                   | *07:04 | *15:02 |  |  | +          | -         | -         | +         |
| 48                                               | 9303 TER-ND                 | *04:01 | *16:01 |  |  | -          | +         | -         | +         |

101.702-24/06 – including *Taq* pol., IFU-01  
101.702-24u/06u – without *Taq* pol., IFU-02

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**Lot No.: 8F0**

**Lot-specific information**

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

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

Additional 5'-primers and 3'-primers in primer solutions 73, 74, 76, 79, 86 to 88, 92 and 94 were tested by separately adding one, two or three additional 3'-primers, respectively one or two additional 5'-primers. Additional 3'-primers in primer solution 80, 83, 90 and 91 were tested by separately adding one or two additional 5'-primers. Additional 5'-primers in primer solutions 78, 85 and 95 were tested by separately adding one, two or three additional 3'-primers.

In primer solutions 73, 88 and 95 one 5'-primer was not possible to test, and in primer solutions 75, 79, 83 to 88 and 90 one or two 3'-primers were not possible to test.

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Lot-specific information

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