

**101.116-24 – including *Taq* pol., IFU-01**  
**101.116-24u/03u – without *Taq* pol., IFU-02**

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

**Lot No.: 5G1**

**Lot-specific information**

## **Olerup SSP® DRB1\*13**

|                                         |                                                                                                      |
|-----------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Product number:</b>                  | <b>101.116-24/03 – including <i>Taq</i> pol.</b><br><b>101.116-24u/03u – without <i>Taq</i> pol.</b> |
| <b>Lot number:</b>                      | <b>5G1</b>                                                                                           |
| <b>Expiry date:</b>                     | <b>2021-01-01</b>                                                                                    |
| <b>Number of tests:</b>                 | <b>24 tests – Product No. 101.116-24/24u</b><br><b>3 tests – Product No. 101.116-03/03u</b>          |
| <b>Number of wells per test:</b>        | <b>57+1</b>                                                                                          |
| <b>Storage - pre-aliquoted primers:</b> | <b>dark at -20°C</b>                                                                                 |
| - PCR Master Mix:                       | <b>-20°C</b>                                                                                         |
| - Adhesive PCR seals                    | <b>RT</b>                                                                                            |
| - Product Insert                        | <b>RT</b>                                                                                            |

**This Product Description is only valid for Lot No. 5G1.**

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

### **CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® DRB1\*13 Lot (1F6)**

The DRB1\*13 kit is updated for new alleles to enable separation of:

- Null and Alternatively expressed alleles
- The product documentation has been updated for new alleles of IMGT 3.31

The format of the Worksheet has been changed.

The DRB1\*13 primer set, specificity and interpretation tables have been updated for the DRB alleles described since the previous Olerup SSP® DRB1\*13 lot was made (**Lot No. 1F6**).

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

| Well | 5'-primer | 3'-primer | rationale                                                                           |
|------|-----------|-----------|-------------------------------------------------------------------------------------|
| 29   | Modified  | -         | 5'-primer modified for improved HLA-specific amplification.                         |
| 47   | Modified  | Exchanged | 5'-primer modified and 3'-primer exchanged for improved HLA-specific amplification. |
| 56   | -         | Added     | 3'-primer added for the DRB1*13:34 allele.                                          |

Changes in revision R01 compared to R00:

1. Primer mix 44 may give rise to a lower yield of HLA-specific product compared to the other DRB1\*13 primer mixes. A footnote reflecting the statement above was added to the Specificity table and the Worksheet of this lot.

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Well **58** 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

### DRB1\*13 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1\*13:01 to DRB1\*13:247 alleles.

#### PLATE LAYOUT

Each test consists of 58 PCR reactions in a 64 well cut PCR plate. Wells 59 to 64 are empty.

|    |    |       |       |       |       |       |       |
|----|----|-------|-------|-------|-------|-------|-------|
| 1  | 2  | 3     | 4     | 5     | 6     | 7     | 8     |
| 9  | 10 | 11    | 12    | 13    | 14    | 15    | 16    |
| 17 | 18 | 19    | 20    | 21    | 22    | 23    | 24    |
| 25 | 26 | 27    | 28    | 29    | 30    | 31    | 32    |
| 33 | 34 | 35    | 36    | 37    | 38    | 39    | 40    |
| 41 | 42 | 43    | 44    | 45    | 46    | 47    | 48    |
| 49 | 50 | 51    | 52    | 53    | 54    | 55    | 56    |
| 57 | NC | empty | empty | empty | empty | empty | empty |

The 64 well cut PCR plate is marked with ‘DRB1\*13’ in silver/gray ink.

Well No. 1 is marked with the Lot No ‘5G1’.

Wells 1 to 57 – DRB1\*13 high resolution primers.

Well 58 – Negative Control (NC).

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded. The PCR plates are covered with a PCR-compatible foil.

#### INTERPRETATION

Due to the sharing of sequence motifs between DRB1 alleles non-DRB1\*13 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the DRB1\*13 alleles, i.e. **DRB1\*13:01 to DRB1\*13:247**, recognized by the HLA Nomenclature Committee in January 2018<sup>1,2</sup> will be amplified by the primers in the DRB1\*13 subtyping kit<sup>3</sup>.

The DRB1\*13 kit enables separation of the confirmed DRB1\*13 alleles as listed in the IMGT/HLA database 3.26.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for DRB1\*13 alleles is listed below.

The DRB1\*13 kit also enables identification of null and alternatively expressed alleles.

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The following DRB1\*13 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

| Alleles               | Primer mix |
|-----------------------|------------|
| DRB1*13:28, 13:221    | 23         |
| DRB1*13:80, 13:242:01 | 34         |
| DRB1*13:92, 13:98     | 36         |

<sup>1</sup>DRB1 alleles listed on the IMGT/HLA web page 2018-January-19, release 3.31.0, [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 DRB1\*13 primer set cannot separate the DRB1\*13:165 and 13:171:01 from DRB1\*11:20 alleles. These alleles can be distinguished by the DR low resolution kit and/or DRB1\*11 high resolution kit.

The DRB1\*13 primer set cannot separate the DRB1\*13:193 from DRB1\*14:95 alleles. These alleles can be distinguished by the DR low resolution kit and/or DRB1\*14 high resolution kit.

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## ALLELE CONFIRMATION STATUS

| Allele           | Status <sup>1</sup> | Allele        | Status <sup>1</sup> | Allele        | Status <sup>1</sup> | Allele       | Status <sup>1</sup> |
|------------------|---------------------|---------------|---------------------|---------------|---------------------|--------------|---------------------|
| DRB1*13:01:01:01 | Confirmed           | DRB1*13:13    | Confirmed           | DRB1*13:55    | Unconfirmed         | DRB1*13:101  | Confirmed           |
| DRB1*13:01:01:02 | Unconfirmed         | DRB1*13:14:01 | Confirmed           | DRB1*13:56    | Confirmed           | DRB1*13:102  | Unconfirmed         |
| DRB1*13:01:02    | Unconfirmed         | DRB1*13:14:02 | Confirmed           | DRB1*13:57    | Unconfirmed         | DRB1*13:103  | Unconfirmed         |
| DRB1*13:01:03    | Confirmed           | DRB1*13:14:03 | Unconfirmed         | DRB1*13:59    | Confirmed           | DRB1*13:104  | Confirmed           |
| DRB1*13:01:04    | Unconfirmed         | DRB1*13:15    | Confirmed           | DRB1*13:60    | Unconfirmed         | DRB1*13:105  | Confirmed           |
| DRB1*13:01:05    | Unconfirmed         | DRB1*13:16    | Confirmed           | DRB1*13:61:01 | Unconfirmed         | DRB1*13:106  | Confirmed           |
| DRB1*13:01:06    | Unconfirmed         | DRB1*13:17    | Confirmed           | DRB1*13:61:02 | Confirmed           | DRB1*13:107  | Unconfirmed         |
| DRB1*13:01:07    | Unconfirmed         | DRB1*13:18    | Confirmed           | DRB1*13:62    | Unconfirmed         | DRB1*13:109  | Unconfirmed         |
| DRB1*13:01:08    | Confirmed           | DRB1*13:19    | Confirmed           | DRB1*13:63    | Unconfirmed         | DRB1*13:110  | Unconfirmed         |
| DRB1*13:01:09    | Unconfirmed         | DRB1*13:20    | Confirmed           | DRB1*13:64    | Unconfirmed         | DRB1*13:111  | Confirmed           |
| DRB1*13:01:10    | Confirmed           | DRB1*13:21:01 | Confirmed           | DRB1*13:65    | Unconfirmed         | DRB1*13:112  | Confirmed           |
| DRB1*13:01:11    | Unconfirmed         | DRB1*13:21:02 | Confirmed           | DRB1*13:66:01 | Unconfirmed         | DRB1*13:113N | Unconfirmed         |
| DRB1*13:01:12    | Unconfirmed         | DRB1*13:22    | Confirmed           | DRB1*13:66:02 | Confirmed           | DRB1*13:114  | Confirmed           |
| DRB1*13:01:13    | Unconfirmed         | DRB1*13:23:01 | Confirmed           | DRB1*13:67    | Unconfirmed         | DRB1*13:115  | Unconfirmed         |
| DRB1*13:01:14    | Unconfirmed         | DRB1*13:23:02 | Unconfirmed         | DRB1*13:68    | Unconfirmed         | DRB1*13:116  | Unconfirmed         |
| DRB1*13:01:15    | Unconfirmed         | DRB1*13:24    | Unconfirmed         | DRB1*13:69    | Unconfirmed         | DRB1*13:117  | Unconfirmed         |
| DRB1*13:01:16    | Unconfirmed         | DRB1*13:25    | Confirmed           | DRB1*13:70    | Confirmed           | DRB1*13:118  | Unconfirmed         |
| DRB1*13:02:01    | Confirmed           | DRB1*13:26:01 | Confirmed           | DRB1*13:71    | Unconfirmed         | DRB1*13:119  | Unconfirmed         |
| DRB1*13:02:02    | Confirmed           | DRB1*13:26:02 | Unconfirmed         | DRB1*13:72    | Unconfirmed         | DRB1*13:120  | Confirmed           |
| DRB1*13:02:03    | Unconfirmed         | DRB1*13:27    | Confirmed           | DRB1*13:73    | Unconfirmed         | DRB1*13:121  | Unconfirmed         |
| DRB1*13:02:04    | Unconfirmed         | DRB1*13:28    | Confirmed           | DRB1*13:74    | Unconfirmed         | DRB1*13:122  | Unconfirmed         |
| DRB1*13:02:05    | Confirmed           | DRB1*13:29    | Confirmed           | DRB1*13:75    | Unconfirmed         | DRB1*13:123  | Unconfirmed         |
| DRB1*13:02:06    | Unconfirmed         | DRB1*13:30    | Unconfirmed         | DRB1*13:76    | Unconfirmed         | DRB1*13:124  | Confirmed           |
| DRB1*13:02:07    | Unconfirmed         | DRB1*13:31    | Confirmed           | DRB1*13:77    | Unconfirmed         | DRB1*13:125  | Unconfirmed         |
| DRB1*13:02:08    | Unconfirmed         | DRB1*13:32    | Unconfirmed         | DRB1*13:78    | Unconfirmed         | DRB1*13:126  | Unconfirmed         |
| DRB1*13:02:09    | Unconfirmed         | DRB1*13:33:01 | Unconfirmed         | DRB1*13:79    | Confirmed           | DRB1*13:127  | Unconfirmed         |
| DRB1*13:02:10    | Unconfirmed         | DRB1*13:33:03 | Confirmed           | DRB1*13:80    | Unconfirmed         | DRB1*13:128  | Confirmed           |
| DRB1*13:02:11    | Unconfirmed         | DRB1*13:34    | Unconfirmed         | DRB1*13:81    | Confirmed           | DRB1*13:129  | Unconfirmed         |
| DRB1*13:02:12    | Unconfirmed         | DRB1*13:35    | Unconfirmed         | DRB1*13:82    | Confirmed           | DRB1*13:130  | Unconfirmed         |
| DRB1*13:03:01    | Confirmed           | DRB1*13:36    | Confirmed           | DRB1*13:83    | Unconfirmed         | DRB1*13:131  | Unconfirmed         |
| DRB1*13:03:02    | Confirmed           | DRB1*13:37    | Confirmed           | DRB1*13:84    | Unconfirmed         | DRB1*13:132  | Unconfirmed         |
| DRB1*13:03:04    | Confirmed           | DRB1*13:38    | Confirmed           | DRB1*13:85    | Unconfirmed         | DRB1*13:133  | Unconfirmed         |
| DRB1*13:03:05    | Unconfirmed         | DRB1*13:39    | Unconfirmed         | DRB1*13:86    | Unconfirmed         | DRB1*13:134  | Confirmed           |
| DRB1*13:03:06    | Unconfirmed         | DRB1*13:40    | Confirmed           | DRB1*13:87    | Confirmed           | DRB1*13:135  | Unconfirmed         |
| DRB1*13:04       | Confirmed           | DRB1*13:41    | Confirmed           | DRB1*13:88    | Unconfirmed         | DRB1*13:136  | Unconfirmed         |
| DRB1*13:05:01    | Confirmed           | DRB1*13:42    | Confirmed           | DRB1*13:89    | Confirmed           | DRB1*13:137N | Confirmed           |
| DRB1*13:05:02    | Unconfirmed         | DRB1*13:43    | Unconfirmed         | DRB1*13:90    | Confirmed           | DRB1*13:139  | Unconfirmed         |
| DRB1*13:05:03    | Unconfirmed         | DRB1*13:44    | Unconfirmed         | DRB1*13:91    | Confirmed           | DRB1*13:140  | Unconfirmed         |
| DRB1*13:06       | Confirmed           | DRB1*13:45    | Confirmed           | DRB1*13:92    | Confirmed           | DRB1*13:141  | Confirmed           |
| DRB1*13:07:01    | Confirmed           | DRB1*13:46    | Unconfirmed         | DRB1*13:93    | Confirmed           | DRB1*13:142N | Unconfirmed         |
| DRB1*13:07:02    | Unconfirmed         | DRB1*13:47    | Unconfirmed         | DRB1*13:94:01 | Unconfirmed         | DRB1*13:143  | Unconfirmed         |
| DRB1*13:08       | Confirmed           | DRB1*13:48    | Confirmed           | DRB1*13:94:02 | Unconfirmed         | DRB1*13:144  | Unconfirmed         |
| DRB1*13:09       | Confirmed           | DRB1*13:49    | Confirmed           | DRB1*13:95    | Confirmed           | DRB1*13:145  | Unconfirmed         |
| DRB1*13:10       | Confirmed           | DRB1*13:50:01 | Confirmed           | DRB1*13:96:01 | Confirmed           | DRB1*13:146  | Unconfirmed         |
| DRB1*13:11:01    | Confirmed           | DRB1*13:50:02 | Unconfirmed         | DRB1*13:96:02 | Confirmed           | DRB1*13:147  | Confirmed           |
| DRB1*13:11:02    | Confirmed           | DRB1*13:50:03 | Confirmed           | DRB1*13:97:01 | Confirmed           | DRB1*13:148  | Confirmed           |
| DRB1*13:12:01    | Confirmed           | DRB1*13:51    | Unconfirmed         | DRB1*13:97:02 | Unconfirmed         | DRB1*13:149  | Unconfirmed         |
| DRB1*13:12:02    | Unconfirmed         | DRB1*13:52    | Confirmed           | DRB1*13:98    | Unconfirmed         | DRB1*13:150  | Confirmed           |
| DRB1*13:12:03    | Unconfirmed         | DRB1*13:53    | Unconfirmed         | DRB1*13:99    | Unconfirmed         | DRB1*13:151  | Unconfirmed         |
| DRB1*13:12:04    | Unconfirmed         | DRB1*13:54    | Confirmed           | DRB1*13:100   | Unconfirmed         | DRB1*13:152  | Confirmed           |

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|--------------------|---------------------|--------------------|---------------------|-------------|---------------------|
| DRB1*13:153        | Unconfirmed         | <b>DRB1*13:183</b> | <b>Confirmed</b>    | DRB1*13:214 | Unconfirmed         |
| DRB1*13:154        | Unconfirmed         | DRB1*13:184        | Unconfirmed         | DRB1*13:215 | Unconfirmed         |
| DRB1*13:155        | Unconfirmed         | DRB1*13:185N       | Unconfirmed         | DRB1*13:216 | Unconfirmed         |
| DRB1*13:156        | Unconfirmed         | DRB1*13:186        | Unconfirmed         | DRB1*13:217 | Unconfirmed         |
| DRB1*13:157        | Unconfirmed         | DRB1*13:187        | Unconfirmed         | DRB1*13:218 | Unconfirmed         |
| <b>DRB1*13:158</b> | <b>Confirmed</b>    | DRB1*13:188        | Unconfirmed         | DRB1*13:219 | Unconfirmed         |
| DRB1*13:159        | Unconfirmed         | DRB1*13:189        | Unconfirmed         | DRB1*13:220 | Unconfirmed         |
| DRB1*13:160        | Unconfirmed         | DRB1*13:190        | Unconfirmed         | DRB1*13:221 | Unconfirmed         |
| DRB1*13:161        | Unconfirmed         | DRB1*13:191        | Unconfirmed         | DRB1*13:222 | Unconfirmed         |
| DRB1*13:162        | Unconfirmed         | DRB1*13:192        | Unconfirmed         | DRB1*13:223 | Unconfirmed         |
| DRB1*13:163        | Unconfirmed         | DRB1*13:193        | Unconfirmed         | DRB1*13:224 | Unconfirmed         |
| DRB1*13:164        | Unconfirmed         | DRB1*13:194        | Unconfirmed         | DRB1*13:225 | Unconfirmed         |
| DRB1*13:165        | Unconfirmed         | DRB1*13:195        | Unconfirmed         | DRB1*13:226 | Unconfirmed         |
| <b>DRB1*13:166</b> | <b>Confirmed</b>    | DRB1*13:197        | Unconfirmed         |             |                     |
| DRB1*13:167        | Unconfirmed         | DRB1*13:198        | Unconfirmed         |             |                     |
| <b>DRB1*13:169</b> | <b>Confirmed</b>    | <b>DRB1*13:199</b> | <b>Confirmed</b>    |             |                     |
| DRB1*13:170        | Unconfirmed         | DRB1*13:200N       | Unconfirmed         |             |                     |
| DRB1*13:171:01     | Unconfirmed         | DRB1*13:201        | Unconfirmed         |             |                     |
| DRB1*13:171:02     | Unconfirmed         | DRB1*13:202        | Unconfirmed         |             |                     |
| DRB1*13:172        | Unconfirmed         | DRB1*13:203        | Unconfirmed         |             |                     |
| DRB1*13:173        | Unconfirmed         | DRB1*13:204        | Unconfirmed         |             |                     |
| DRB1*13:174        | Unconfirmed         | DRB1*13:205        | Unconfirmed         |             |                     |
| DRB1*13:175        | Unconfirmed         | <b>DRB1*13:206</b> | <b>Confirmed</b>    |             |                     |
| DRB1*13:176        | Unconfirmed         | DRB1*13:207        | Unconfirmed         |             |                     |
| DRB1*13:177        | Unconfirmed         | DRB1*13:208        | Unconfirmed         |             |                     |
| DRB1*13:178        | Unconfirmed         | DRB1*13:209        | Unconfirmed         |             |                     |
| DRB1*13:179        | Unconfirmed         | DRB1*13:210        | Unconfirmed         |             |                     |
| DRB1*13:180        | Unconfirmed         | DRB1*13:211        | Unconfirmed         |             |                     |
| DRB1*13:181        | Unconfirmed         | DRB1*13:212        | Unconfirmed         |             |                     |
| DRB1*13:182        | Unconfirmed         | <b>DRB1*13:213</b> | <b>Confirmed</b>    |             |                     |

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

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## SPECIFICITY TABLE

### DRB1\*13 SSP subtyping

Specificities and sizes of the PCR products of the 57+1 primer mixes used for  
DRB1\*13 SSP subtyping

| Primer Mix | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | Amplified DRB1*13 alleles <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Other amplified DRB alleles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|----------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>   | 175 bp                                 | 515 bp                            | *13:01:01:01-13:16, 13:18-13:42, 13:44, 13:46-13:66:02, 13:68-13:102, 13:104-13:115, 13:117-13:121, 13:123-13:158, 13:161-13:164, 13:166-13:170, 13:171:02-13:174, 13:176-13:178, 13:180-13:182, 13:184-13:190, 13:192-13:194, 13:196, 13:198-13:213, 13:215-13:216, 13:218-13:227, 13:229-13:247                                                                                                                                                                                                                                                                                                                                                             | *03:01:01:01-03:01:05, 03:01:07-03:01:08, 03:01:10-03:07, 03:09, 03:11:01-03:41:02, 03:43-03:45, 03:47-03:63, 03:66-03:68N, 03:70-03:86, 03:88-03:91, 03:93-03:110, 03:112-03:129, 03:131-03:139, 03:141-03:142, 08:20, 14:02:01:01-14:03:02, 14:05:01:01-14:06:03, 14:09, 14:12:01-14:14, 14:17-14:21, 14:23:01, 14:23:03-14:24, 14:27:01-14:27:02, 14:29-14:30, 14:33, 14:36-14:37, 14:40-14:45, 14:47-14:48, 14:51, 14:56, 14:59, 14:63-14:65, 14:67, 14:77-14:78, 14:80-14:81, 14:83-14:85, 14:89, 14:91, 14:94-14:96, 14:98, 14:100, 14:102-14:103, 14:106, 14:108-14:109, 14:115-14:116, 14:121, 14:123, 14:127:01-14:127:02, 14:134-14:136, 14:144, 14:154-14:156, 14:159-14:161, 14:165, 14:167, 14:169-14:170, 14:174, 14:176-14:177, 14:179, 14:181, 14:183, 14:187-14:188N, <b>DRB3*01:14</b> |
| <b>2</b>   | 200 bp                                 | 430 bp                            | *13:01:01:01-13:04, 13:06, 13:08-13:10, 13:12:01-13:13, 13:15-13:16, 13:19, 13:22-13:23:02, 13:27-13:28, 13:30-13:41, 13:45, 13:48, 13:51-13:53, 13:57-13:59, 13:61:01-13:61:02, 13:64-13:66:02, 13:68-13:70, 13:72-13:73, 13:74 <sup>w</sup> , 13:76-13:77, 13:79-13:85, 13:87, 13:89-13:99, 13:101-13:102, 13:104-13:107, 13:109-13:110, 13:112-13:113N, 13:115, 13:117-13:118, 13:120-13:131, 13:135, 13:137N-13:139, 13:141-13:143, 13:145-13:148, 13:151-13:157, 13:159, 13:161-13:163, 13:165-13:168, 13:170-13:174, 13:176-13:177, 13:179, 13:181-13:182, 13:185N-13:188, 13:190-13:191, 13:194, 13:198, 13:200N-13:202, 13:204-13:205, 13:207-13:213, | *03:125, 11:02:01-11:02:05, 11:14:01-11:14:02, 11:16, 11:18-11:21, 11:31, 11:45, 11:48, 11:65:01-11:65:02, 11:70, 11:73, 11:82, 11:86, 11:98, 11:118-11:119, 11:124, 11:127, 11:132, 11:171, 11:184, 11:191, 14:16, 14:24, 14:37, 14:63, 14:67, 14:78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



101.116-24 – including *Taq* pol., IFU-01  
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Lot No.: **5G1**

**Lot-specific information**

|          |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3</b> | 200 bp | 430 bp | 13:215-13:222, 13:225-13:228,<br>13:233-13:234, 13:236-13:245                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>4</b> | 170 bp | 430 bp | *13:03:01-13:04, 13:12:01-<br>13:13, 13:21:01-13:21:02,<br>13:30, 13:32-13:33:03, 13:38,<br>13:48-13:49, 13:55, 13:58,<br>13:65-13:66:02, 13:75, 13:81,<br>13:88-13:90, 13:93-13:95,<br>13:101, 13:108, 13:115,<br>13:118, 13:120, 13:122,<br>13:133-13:134, 13:139,<br>13:151-13:152, 13:154,<br>13:161, 13:164, 13:167,<br>13:169, 13:174, 13:188,<br>13:194, 13:216, 13:219,<br>13:227-13:228, 13:230                                                                                                                                                                                                                                                                             | *03:12, 14:13, 14:63, 14:65, 14:78, 14:85,<br>14:169-14:170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>5</b> | 220 bp | 430 bp | *13:03:01-13:03:06, 13:05:01-<br>13:07:02, 13:10-13:14:03,<br>13:18, 13:21:01-13:21:02,<br>13:25-13:26:02, 13:30,<br>13:33:01-13:33:03, 13:37,<br>13:42, 13:44, 13:46-13:47,<br>13:49-13:50:03, 13:55-13:56,<br>13:58, 13:60, 13:62, 13:66:01-<br>13:66:02, 13:77, 13:81-13:82,<br>13:85-13:86, 13:88-13:90,<br>13:94:01-13:95, 13:100-<br>13:101, 13:108, 13:115,<br>13:118-13:120, 13:122,<br>13:132-13:134, 13:136,<br>13:144, 13:146, 13:150-<br>13:152, 13:154, 13:156-<br>13:158, 13:161, 13:163-<br>13:164, 13:169-13:170,<br>13:172, 13:174, 13:176,<br>13:178, 13:180, 13:181 <sup>w</sup> ,<br>13:189, 13:193-13:194,<br>13:196-13:197, 13:199,<br>13:203, 13:206, 13:216, | *03:76, 03:126, 08:20, 11:01:01:01-<br>11:01:26, 11:01:27 <sup>w</sup> , 11:01:28 <sup>?</sup> , 11:01:29,<br>11:04:01-11:04:15, 11:06:01-11:06:03,<br>11:08:01-11:08:02, 11:08:03 <sup>w</sup> , 11:09-<br>11:10:02, 11:12:01-11:13:02, 11:15, 11:17-<br>11:19:03, 11:23:01-11:29:02, 11:31-11:35,<br>11:37:01-11:39, 11:42:01, 11:42:02 <sup>w</sup> ,<br>11:43-11:47, 11:49:01-11:50, 11:52,<br>11:54:01-11:58:02, 11:60-11:62:02, 11:64,<br>11:66, 11:72-11:75, 11:77-11:81, 11:83-<br>11:84:03, 11:87-11:97, 11:99-11:102:02,<br>11:106, 11:108-11:117, 11:119-11:121,<br>11:123, 11:126, 11:128-11:135, 11:137,<br>11:140-11:150, 11:152-11:160, 11:162-<br>11:163, 11:165-11:167, 11:169N-11:170,<br>11:172, 11:174-11:175, 11:177-11:192,<br>11:194-11:208, 11:210-11:212, 11:214-<br>11:220, 14:01:01-14:03:02, 14:05:01:01-<br>14:09, 14:12:01-14:14, 14:17-14:23:04,<br>14:25-14:27:02, 14:29-14:30, 14:32:01-<br>14:36, 14:38:01-14:45, 14:47-14:49, 14:51,<br>14:53-14:55, 14:58-14:60, 14:62-14:65,<br>14:67, 14:69-14:70, 14:72, 14:74-14:75, |

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Lot No.: **5G1**

Lot-specific information

|          |        |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>6</b> | 215 bp | <b>515 bp</b> | *13:01:01:01-13:02:13, 13:04,<br>13:08-13:09, 13:15-13:16,<br>13:19-13:20, 13:22-13:24,<br>13:27-13:29, 13:31-13:32,<br>13:34-13:36, 13:38-13:41,<br>13:43, 13:45, 13:48, 13:51-<br>13:54, 13:57, 13:59, 13:61:01-<br>13:61:02, 13:63-13:65, 13:68-<br>13:76, 13:78-13:80, 13:83-<br>13:84, 13:87, 13:91-13:93,<br>13:96:01-13:99, 13:102,<br>13:104-13:107, 13:109,<br>13:111-13:114, 13:117,<br>13:121, 13:123-13:131,<br>13:135, 13:138-13:143,<br>13:145-13:149, 13:153,<br>13:155, 13:159, 13:162,<br>13:165-13:166, 13:168,<br>13:171:01-13:171:02, 13:173,<br>13:177, 13:179, 13:182,<br>13:184-13:187, 13:190-13:192,<br>13:198, 13:200N-13:202,<br>13:204-13:205, 13:207-13:213,<br>13:215, 13:217-13:218,<br>13:221-13:223, 13:225-13:226,<br>13:233-13:234, 13:236-13:245,<br>13:247 | *03:125, 11:02:01-11:03:02, 11:11:01,<br>11:11:03, 11:14:01-11:14:02, 11:16, 11:20-<br>11:21, 11:36, 11:40-11:41, 11:48, 11:55,<br>11:59, 11:63:01-11:63:02, 11:65:01-<br>11:65:02, 11:68-11:70, 11:76, 11:82,<br>11:85-11:86, 11:118, 11:122, 11:124,<br>11:127, 11:138-11:139, 11:151, 11:161,<br>11:168, 11:171, 11:176, 11:213, 14:16,<br>14:24, 14:37                                                                                                                                                                                    |
| <b>7</b> | 200 bp | <b>430 bp</b> | *13:02:01:01-13:02:13,<br>13:05:01-13:05:03, 13:26:01-<br>13:26:02, 13:29, 13:31, 13:34,<br>13:36, 13:39, 13:41, 13:50:01-<br>13:50:03, 13:56, 13:63, 13:65,<br>13:67, 13:73-13:74, 13:85,<br>13:96:01-13:96:02, 13:99,<br>13:103-13:104, 13:115,<br>13:119-13:120, 13:123-13:124,<br>13:126, 13:128, 13:136,<br>13:139-13:140, 13:142N-<br>13:143, 13:145, 13:147,<br>13:155, 13:157-13:159,<br>13:165, 13:168, 13:170-<br>13:172, 13:179, 13:189,<br>13:196, 13:198-13:199,<br>13:202-13:203, 13:207-13:212,<br>13:220, 13:225, 13:235-<br>13:237, 13:239-13:241,<br>13:243-13:244                                                                                                                                                                                                            | *03:02:01-03:02:03, 03:05:01-03:05:03,<br>03:09, 03:14, 03:27, 03:29, 03:38, 03:53,<br>03:74, 03:81, 03:88, 03:90, 03:102-03:103,<br>03:115, 03:122, 03:130-03:131, 04:77,<br>04:102, 04:113, 04:225, 08:73, 11:09,<br>11:20, 11:28:01-11:28:02, 11:87, 11:122,<br>14:02:01:01-14:03:02, 14:09, 14:13, 14:19,<br>14:24, 14:27:01-14:27:02, 14:30, 14:46-<br>14:48, 14:51, 14:63, 14:67, 14:85, 14:89,<br>14:98, 14:109, 14:115, 14:134-14:135,<br>14:144, 14:174, 14:179, 16:08,<br><b>DRB3*01:08, DRB3*01:46, DRB3*02:06,<br/>DRB3*02:20</b> |
| <b>8</b> | 190 bp | <b>430 bp</b> | *13:01:01:01-13:01:18, 13:06,<br>13:09-13:10, 13:15, 13:18,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | *03:01:01:01-03:01:26, 03:03, 03:06-<br>03:08, 03:10-03:13:02, 03:15:01-03:16,                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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Lot No.: **5G1**

**Lot-specific information**

|           |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>9</b>  | 270 bp | 430 bp | *13:02:01:01-13:03:06,<br>13:05:01-13:05:03, 13:07:01-<br>13:07:02, 13:12:01-13:14:03,<br>13:21:01-13:21:02, 13:23:01-<br>13:23:02, 13:25-13:26:02,<br>13:29-13:31, 13:33:01-13:34,<br>13:36-13:39, 13:41, 13:45-<br>13:47, 13:49-13:50:03, 13:55-<br>13:56, 13:60, 13:62-13:63,<br>13:65-13:66:02, 13:73-13:74,<br>13:82, 13:85-13:86, 13:88,<br>13:90, 13:95-13:97:02, 13:99-<br>13:101, 13:104, 13:107,<br>13:115, 13:118-13:120,<br>13:122-13:124, 13:126,<br>13:128, 13:132-13:136,<br>13:139-13:140, 13:142N-<br>13:143, 13:145, 13:147,<br>13:151-13:152, 13:154-13:155,<br>13:157-13:159, 13:161,<br>13:165, 13:167-13:168,<br>13:170-13:172, 13:174,<br>13:179-13:180, 13:182,<br>13:188-13:189, 13:194,<br>13:196-13:199, 13:202-13:203,<br>13:207-13:212, 13:216,<br>13:219-13:220, 13:224-13:225,<br>13:227-13:230, 13:232,<br>13:235-13:237, 13:239-13:241,<br>13:243-13:244, 13:247 | *03:02:01-03:02:03, 03:05:01-03:05:03,<br>03:09, 03:14, 03:17, 03:27, 03:29, 03:35,<br>03:38, 03:40-03:41:02, 03:53, 03:74,<br>03:81, 03:88, 03:90, 03:102-03:103,<br>03:115, 03:122, 03:130-03:131,<br>11:01:01:01-11:01:27, 11:01:28 <sup>?</sup> , 11:01:29,<br>11:08:01-11:11:01, 11:11:03-11:12:03,<br>11:14:01-11:15, 11:19:01-11:20, 11:23:01-<br>11:24, 11:26-11:29:02, 11:31-11:33,<br>11:37:01-11:37:02, 11:39, 11:45, 11:49:01-<br>11:49:02, 11:51, 11:53, 11:61-11:62:02,<br>11:64, 11:66, 11:68-11:69, 11:72-11:75,<br>11:79-11:82, 11:87, 11:90-11:91, 11:93-<br>11:97, 11:99-11:101:02, 11:103:01-<br>11:103:02, 11:105-11:112, 11:114, 11:117,<br>11:120-11:122, 11:125-11:126, 11:128,<br>11:133-11:134, 11:136, 11:140-11:145,<br>11:147:01-11:147:02, 11:149-11:150,<br>11:152, 11:154-11:155, 11:157-11:158,<br>11:162, 11:164, 11:166-11:170, 11:172,<br>11:175, 11:177-11:178, 11:183-11:186,<br>11:188, 11:191-11:192, 11:195, 11:197,<br>11:199, 11:204-11:205, 11:208, 11:212,<br>11:215, 11:219, 14:02:01:01-14:03:02,<br>14:07:01-14:07:02, 14:09, 14:13-14:14,<br>14:19, 14:22, 14:24-14:25, 14:27:01-<br>14:27:02, 14:30, 14:36, 14:40-14:42,<br>14:44:01-14:44:03, 14:47-14:49, 14:51,<br>14:53, 14:63, 14:67, 14:69, 14:77, 14:85,<br>14:89, 14:94, 14:98, 14:102, 14:109,<br>14:115-14:116, 14:119, 14:134-14:135,<br>14:144, 14:159, 14:164, 14:174, 14:179,<br>14:181, <b>DRB3*01:14</b> |
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|           |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>16</b>             | 150 bp           | 430 bp        | *13:01:01:01-13:02:01:03, 13:02:03-13:02:13, 13:08, 13:15-13:16, 13:19-13:20, 13:27-13:29, 13:31-13:32, 13:34-13:36, 13:39-13:41, 13:43, 13:51-13:53, 13:57, 13:59, 13:61:01-13:61:02, 13:63-13:65, 13:67-13:69, 13:71-13:74, 13:76, 13:78-13:80, 13:83-13:84, 13:87, 13:91-13:93, 13:96:01-13:97:01, 13:98-13:99, 13:102-13:107, 13:109, 13:111-13:114, 13:117, 13:121, 13:123-13:128, 13:130-13:131, 13:135, 13:138-13:143, 13:145, 13:147-13:148, 13:153, 13:155, 13:159-13:160, 13:165-13:166, 13:168, 13:171:01-13:171:02, 13:173, 13:175, 13:177, 13:179, 13:182-13:187, 13:190-13:191, 13:195, 13:198, 13:200N-13:202, 13:205, 13:207-13:212, 13:213 <sup>w</sup> , 13:214-13:215, 13:217-13:218, 13:221-13:223, 13:225-13:226, 13:233-13:234, 13:236-13:245 | *03:125, 11:02:05, 11:16, 11:20, 11:40, 11:59, 11:63:02, 11:118, 11:122, 14:16, 14:57, 15:10                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>17</b>             | 220 bp           | 430 bp        | *13:02:02, 13:26:01, 13:60, 13:77, 13:163, 13:181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | *11:01:03, 11:01:10-11:01:11, 11:04:07, 11:08:03, 11:19:02, 11:42:02, 14:32:03                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>18<sup>4</sup></b> | 110 bp<br>230 bp | 430 bp        | *13:87<br>*13:13, 13:18, 13:33:02-13:33:03, 13:47, 13:55, 13:61:01, 13:94:02, 13:96:02, 13:119, 13:144, 13:146, 13:154, 13:156, 13:158, 13:164, 13:232                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *03:01:02, 03:02:02, 03:05:03, 03:13:02, 03:17, 03:24, 03:27, 03:35, 03:81, 03:130, 08:20, 11:07:02, 11:23:01-11:23:02, 11:25, 11:27:01, 11:45, 11:55, 11:64, 11:84:01, 11:119, 11:124, 11:136, 11:138, 14:03:01-14:03:02, 14:12:01-14:12:02, 14:27:01-14:27:02, 14:38:01, 14:40, 14:47, 14:55, 14:63, 14:67, 14:77-14:78, 14:84-14:85, 14:89, 14:98, 14:102, 14:115-14:116, 14:127:01, 14:135-14:136, 14:144, 14:156, 14:164-14:165, 14:173-14:174, 14:181, <b>DRB3*01:14</b> |
| <b>19<sup>4</sup></b> | 110 bp           | 430 bp        | *13:87, 13:106, 13:216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *03:26, 03:33, 03:44, 11:44, 11:49:01-11:50, 11:85, 11:127, 14:97                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 205 bp<br>260 bp |               | *13:74<br>*13:16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | *11:86                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>20<sup>5</sup></b> | 215 bp           | <b>515 bp</b> | *13:17, 13:67, 13:116, 13:175, 13:195, 13:214                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | *08:40, <b>DRB3*02:27</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>21</b>             | 175 bp<br>220 bp | <b>515 bp</b> | *13:27, 13:41, 13:71, 13:176<br>*13:103, 13:160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | *03:76, 03:125, 11:59                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>22<sup>4</sup></b> | 110 bp           | 430 bp        | *13:68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *11:24                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                       | 175 bp           |               | *13:31, 13:46, 13:54, 13:77,<br>13:100, 13:162, 13:180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *03:38, 03:79, 03:85, 03:96, 14:48, 14:174,<br>14:177, <b>DRB3*01:14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                       | 280 bp           |               | *13:13 <sup>?</sup> , 13:30 <sup>?</sup> , 13:33:01 <sup>?</sup> ,<br>13:52 <sup>?</sup> , 13:105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | *03:12 <sup>?</sup> , 11:26 <sup>?</sup> , 11:40 <sup>?</sup> , 11:100, 14:19 <sup>?</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>23<sup>4</sup></b> | 115 bp           | 430 bp        | *13:34, 13:64, 13:136, 13:174,<br>13:204, 13:221                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *03:43, 03:71:01, 11:76, 11:114, 11:183,<br>11:196, 14:41, 14:77, 14:110, <b>DRB3*01:14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                       | 245 bp           |               | *13:01:03, 13:02:13, 13:28,<br>13:76, 13:163, 13:193,<br>13:242:02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | *03:01:17, 03:15:02, 03:73, 03:97,<br>11:01:05, 11:01:10, 11:04:03, 11:06:02,<br>11:13:01-11:13:02, 11:17, 11:52, 11:54:01,<br>11:159, 11:202, 14:01:01, 14:01:03-<br>14:01:04, 14:05:01:01-14:05:02, 14:05:04,<br>14:07:01-14:08, 14:14, 14:18, 14:23:01-<br>14:23:04, 14:26, 14:32:02-14:32:03, 14:34-<br>14:36, 14:39, 14:42-14:44:01, 14:44:03-<br>14:45, 14:54:01:01-14:56, 14:58-14:60,<br>14:62, 14:64-14:65, 14:70, 14:72, 14:82,<br>14:86-14:88, 14:90-14:92N, 14:95-14:97,<br>14:99-14:101, 14:104-14:105, 14:110-<br>14:114, 14:117-14:118, 14:122-14:125,<br>14:127:02, 14:129-14:134, 14:137N,<br>14:139-14:140, 14:142, 14:146-14:147,<br>14:149-14:151, 14:153-14:155, 14:157-<br>14:158, 14:160-14:163, 14:166N-14:169,<br>14:172-14:173, 14:178, 14:184-14:190                                                                                                                                                                                                                                                                                                                           |
| <b>24</b>             | 145 bp<br>180 bp | <b>515 bp</b> | *13:35, 13:161, 13:185N<br>*13:39, 13:54, 13:77-13:79,<br>13:100, 13:162-13:163, 13:181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | *03:13:01-03:13:02, 03:38, 03:79, 03:88,<br>11:116, 11:120, 14:48, 14:64, 14:109,<br>14:115, 14:177, <b>DRB3*01:14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                       | 280 bp           |               | *13:13 <sup>?</sup> , 13:30 <sup>?</sup> , 13:33:01 <sup>?</sup> ,<br>13:45 <sup>?</sup> , 13:52 <sup>?</sup> , 13:166                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *03:12 <sup>?</sup> , 03:16 <sup>?</sup> , 03:83, 11:26 <sup>?</sup> , 11:40 <sup>?</sup> ,<br>14:19 <sup>?</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>25<sup>4</sup></b> | 110 bp           | 430 bp        | *13:03:01-13:04, 13:07:01-<br>13:08, 13:11:01-13:14:03,<br>13:19, 13:21:01-13:25, 13:30,<br>13:33:01-13:33:03, 13:37-<br>13:38, 13:44-13:49, 13:52,<br>13:54-13:55, 13:57-13:58,<br>13:60, 13:66:01-13:66:02,<br>13:70, 13:72, 13:75-13:76,<br>13:81-13:84, 13:86, 13:88-<br>13:90, 13:94:01-13:95,<br>13:97:01-13:97:02, 13:100-<br>13:101, 13:107-13:108,<br>13:118, 13:122, 13:132-<br>13:135, 13:149-13:150,<br>13:152, 13:154, 13:161-<br>13:162, 13:164, 13:167,<br>13:169, 13:180, 13:182,<br>13:188, 13:194, 13:197,<br>13:206, 13:219, 13:224,<br>13:227-13:232, 13:246-13:247 | *03:04:01-03:04:02, 03:17, 03:21, 03:25,<br>03:30-03:31, 03:35, 03:40-03:41:02, 03:49,<br>03:75, 03:105, 03:118, 08:20, 11:01:01:01-<br>11:01:27, 11:01:28 <sup>?</sup> , 11:01:29-11:04:15,<br>11:06:01-11:08:03, 11:10:01-11:11:01,<br>11:11:03-11:14:02, 11:17-11:19:03, 11:21,<br>11:23:01-11:23:02, 11:25-11:27:03,<br>11:29:01-11:29:02, 11:31-11:39, 11:41-<br>11:43, 11:45-11:48, 11:51-11:57, 11:60-<br>11:66, 11:68-11:70, 11:72-11:75, 11:77-<br>11:82, 11:84:01-11:84:03, 11:86, 11:88-<br>11:103:02, 11:105-11:112, 11:116-11:121,<br>11:123-11:126, 11:128-11:181, 11:184-<br>11:192, 11:194-11:195, 11:197-11:208,<br>11:210-11:220, 14:01:01-14:01:04,<br>14:05:01:01-14:05:04, 14:07:01-14:08,<br>14:14, 14:16, 14:20, 14:22-14:23:04,<br>14:25-14:26, 14:32:01-14:32:03, 14:34-<br>14:40, 14:42-14:45, 14:49, 14:53-14:56,<br>14:58, 14:60, 14:62, 14:65, 14:69-14:70,<br>14:72, 14:74-14:75, 14:82, 14:84, 14:86-<br>14:88, 14:90-14:92N, 14:94, 14:96, 14:99-<br>14:105, 14:111-14:114, 14:116-14:119,<br>14:122-14:125, 14:127:01-14:131, 14:136-<br>14:137N, 14:139-14:140, 14:142, |



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| 26 <sup>4,5,7</sup> | 140 bp |        | *13:185N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                     | 90 bp  | 430 bp | *13:150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | *11:39, 11:43, 11:50, 11:115, 11:145, 11:151, 11:168, 11:174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>29</b>             | 155 bp | 430 bp        | *13:15, 13:19, 13:53, 13:57,<br>13:85, 13:104, 13:195, 13:198,<br>13:216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | *08:32, 12:01:01:01-12:01:09, 12:03:02-<br>12:06, 12:08-12:11, 12:14, 12:17, 12:22,<br>12:24N-12:25, 12:29-12:30, 12:34-12:36,<br>12:38-12:40, 12:46-12:48, 12:53-12:54,<br>12:58-12:59, 12:63, 12:68, 14:63, 14:67,<br>14:78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>30<sup>4</sup></b> | 85 bp  | <b>515 bp</b> | *13:01:01:01-13:01:06,<br>13:01:08-13:01:18, 13:04,<br>13:08, 13:15, 13:17, 13:19-<br>13:20, 13:22, 13:24, 13:27-<br>13:28, 13:32, 13:35, 13:40,<br>13:43, 13:48, 13:51-13:54,<br>13:57, 13:59, 13:61:01-<br>13:61:02, 13:64, 13:68-13:72,<br>13:75-13:76, 13:78-13:80,<br>13:83-13:84, 13:87, 13:91-<br>13:93, 13:98, 13:102, 13:105-<br>13:106, 13:110-13:114,<br>13:116-13:117, 13:121,<br>13:125, 13:127, 13:130-<br>13:131, 13:138, 13:141,<br>13:146, 13:148-13:149,<br>13:153, 13:160, 13:162,<br>13:166, 13:173, 13:175,<br>13:177, 13:183, 13:185N-<br>13:187, 13:190-13:191,<br>13:200N-13:201, 13:204-<br>13:205, 13:213-13:215,<br>13:217-13:218, 13:221-13:222, | *01:42, 01:61, 03:125, 04:02:01-04:02:05,<br>04:37, 04:124, 04:133-04:134, 04:138,<br>04:143, 04:161, 04:204, 04:210, 04:237,<br>11:02:01-11:03:02, 11:16, 11:21, 11:36,<br>11:40-11:41, 11:48, 11:55, 11:59,<br>11:63:01-11:63:02, 11:65:01-11:65:02,<br>11:70, 11:76, 11:85, 11:118, 11:124,<br>11:127, 11:138-11:139, 11:151, 11:161,<br>11:171, 11:176, 11:213, 14:16, 14:57,<br>15:10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

101.116-24 – including *Taq* pol., IFU-01  
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Lot No.: **5G1**

Lot-specific information

|                       |                  |               |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                             |
|-----------------------|------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>31</b>             | 145 bp           | <b>515 bp</b> | 13:226, 13:233-13:234,<br>13:238, 13:242:01-13:242:02,<br>13:245                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                             |
|                       | 175 bp           |               | *13:152, 13:204                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                             |
|                       | 205 bp           |               | *13:59                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                             |
| <b>32</b>             | 220 bp           | 430 bp        | *13:72                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                             |
|                       |                  |               | *13:02:02, 13:03:01-13:03:06,<br>13:10, 13:26:01, 13:33:01-<br>13:33:03, 13:37, 13:60,<br>13:66:01-13:66:02, 13:77,<br>13:81, 13:85, 13:88-13:90,<br>13:94:01-13:95, 13:101,<br>13:115, 13:120, 13:122,<br>13:133, 13:151-13:152,<br>13:163, 13:167, 13:170,<br>13:172, 13:174, 13:176,<br>13:178, 13:180-13:181,<br>13:188, 13:194, 13:196,<br>13:216, 13:219, 13:227,<br>13:230 | *03:76, 11:01:03, 11:01:10-11:01:11,<br>11:04:07, 11:08:03, 11:19:02, 11:42:02,<br>11:73, 11:79, 11:93, 11:131-11:132,<br>11:153, 11:184, 14:19, 14:21, 14:32:03,<br>14:109 |
| <b>33<sup>4</sup></b> | 80 bp            | 430 bp        | *13:43, 13:45, 13:179, 13:217                                                                                                                                                                                                                                                                                                                                                     | *03:10, 11:31, 11:96, 11:148, 14:35, 14:53,<br>14:72, 14:128, 14:132, 14:138, 14:186                                                                                        |
| <b>34</b>             | 145 bp           | <b>515 bp</b> | *13:80                                                                                                                                                                                                                                                                                                                                                                            | *03:16                                                                                                                                                                      |
|                       | 210 bp<br>255 bp |               | *13:178<br>*13:58, 13:81, 13:163,<br>13:242:01-13:242:02                                                                                                                                                                                                                                                                                                                          | *03:20, 11:06:01-11:06:03, 11:21, 11:47,<br>11:57, 11:129, 11:174, 14:29, 14:99                                                                                             |
| <b>35</b>             | 150 bp<br>280 bp | 430 bp        | *13:51<br>*13:13 <sup>?</sup> , 13:30 <sup>?</sup> , 13:33:01 <sup>?</sup> ,<br>13:52 <sup>?</sup> , 13:105                                                                                                                                                                                                                                                                       | *03:12 <sup>?</sup> , 11:26 <sup>?</sup> , 11:40 <sup>?</sup> , 11:100, 14:19 <sup>?</sup>                                                                                  |
| <b>36<sup>4</sup></b> | 75 bp            | 430 bp        | *13:92                                                                                                                                                                                                                                                                                                                                                                            | *11:177, 14:26                                                                                                                                                              |
|                       | 170 bp<br>260 bp |               | *13:90, 13:113N<br>*13:98                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                             |
| <b>37<sup>4</sup></b> | 100 bp           | <b>515 bp</b> | *13:32, 13:65, 13:93, 13:120,<br>13:139                                                                                                                                                                                                                                                                                                                                           | *03:12, 14:13, 14:63, 14:78, 14:85, 14:170                                                                                                                                  |
| <b>38<sup>4</sup></b> | 70 bp            | 430 bp        | *13:33:01, 13:61:02, 13:94:01,<br>13:96:01                                                                                                                                                                                                                                                                                                                                        | *03:19, 03:125, 15:37:01, 15:104:01                                                                                                                                         |
| <b>39<sup>4</sup></b> | 80 bp            | <b>515 bp</b> | *13:102                                                                                                                                                                                                                                                                                                                                                                           | *14:158<br>*03:12 <sup>?</sup> , 03:83, 11:26 <sup>?</sup> , 11:40 <sup>?</sup> , 14:19 <sup>?</sup>                                                                        |
|                       | 130 bp<br>280 bp |               | *13:95<br>*13:13 <sup>?</sup> , 13:30 <sup>?</sup> , 13:33:01 <sup>?</sup> ,<br>13:52 <sup>?</sup> , 13:166                                                                                                                                                                                                                                                                       |                                                                                                                                                                             |
| <b>40<sup>4</sup></b> | 90 bp            | <b>515 bp</b> | *13:101                                                                                                                                                                                                                                                                                                                                                                           | *14:118                                                                                                                                                                     |
|                       | 120 bp<br>160 bp |               | *13:91<br>*13:99, 13:113N                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                             |
| <b>41<sup>4</sup></b> | 55 bp            | 430 bp        | *13:50:01-13:50:03, 13:69,<br>13:115, 13:172, 13:189                                                                                                                                                                                                                                                                                                                              | *03:52, 04:41, 04:77, 04:102, 04:113,<br>04:225, 04:230, 08:73, 11:28:01-11:28:02,<br>11:58:01-11:58:02, 11:115, 16:08                                                      |
| <b>42</b>             | 225 bp           | 430 bp        | *13:112, 13:128, 13:183                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                             |
| <b>43</b>             | 195 bp           | 430 bp        | *13:117, 13:190                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                             |
| <b>44<sup>8</sup></b> | 145 bp           | 430 bp        | *13:01:01:01-13:02:08,<br>13:02:10-13:02:13, 13:08,<br>13:10, 13:15-13:16, 13:19,<br>13:27-13:28, 13:31-13:32,<br>13:34-13:36, 13:39-13:41,<br>13:51-13:53, 13:57,                                                                                                                                                                                                                | *03:125, 11:16, 11:20, 11:118, 14:16,<br>14:57                                                                                                                              |

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Lot No.: **5G1**

Lot-specific information

|                 |                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|----------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                            |        | 13:61:01-13:61:02, 13:64-13:65, 13:67-13:68, 13:72-13:73, 13:76, 13:79-13:80, 13:83-13:85, 13:87, 13:91-13:93, 13:96:01-13:99, 13:102-13:107, 13:109-13:110, 13:112-13:113N, 13:117, 13:120-13:121, 13:123-13:128, 13:130-13:131, 13:135, 13:137N-13:139, 13:141-13:143, 13:145-13:148, 13:153, 13:155, 13:159-13:160, 13:165-13:166, 13:168, 13:170-13:171:02, 13:173, 13:175-13:177, 13:179, 13:182-13:183, 13:185N-13:187, 13:190-13:191, 13:195, 13:198, 13:200N-13:202, 13:205, 13:207-13:215, 13:217-13:218, 13:220-13:222, 13:225-13:226, 13:233-13:234, 13:236-13:242:02, 13:244-13:245 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 45              | 135 bp<br>255 bp           | 430 bp | *13:148<br>*13:141, 13:147                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | *03:56, 11:160-11:161                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 46              | 135 bp<br>205 bp<br>260 bp | 430 bp | *13:148<br>*13:137N, 13:142N<br>*13:147                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 47 <sup>6</sup> | 165 bp                     | 430 bp | *13:73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 48 <sup>4</sup> | 115 bp                     | 430 bp | *13:45, 13:197                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *04:62, 04:69, 04:146, 04:235, 08:08, 14:25, 14:53, 14:58, 14:69, 14:128, 14:185-14:186                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 49              | 210 bp                     | 430 bp | *13:199                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 50              | 220 bp                     | 430 bp | *13:183, 13:200N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 51              | 150 bp                     | 430 bp | *13:188, 13:206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | *04:03:01:01-04:03:13, 04:07:01:01-04:07:06, 04:11:01-04:11:04, 04:17:01-04:17:02, 04:27, 04:39, 04:50-04:52, 04:59-04:60, 04:69, 04:71, 04:88, 04:92-04:93, 04:95:02-04:97, 04:100-04:101, 04:109-04:110, 04:129, 04:136, 04:142N, 04:146, 04:148, 04:150, 04:154, 04:156, 04:160, 04:163, 04:165, 04:169-04:170, 04:172, 04:181, 04:183, 04:188, 04:195, 04:197-04:199, 04:203, 04:209, 04:218, 04:222, 04:226, 04:228, 04:234, 08:29, 11:53-11:54:02, 11:89, 11:150, 11:159, 14:42, 14:58, 14:161, 14:186 |
| 52 <sup>4</sup> | 125 bp                     | 430 bp | *13:208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | *15:01:32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 53              | 150 bp                     | 430 bp | *13:124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 54              | 235 bp                     | 430 bp | *13:33:01, 13:61:02, 13:94:01, 13:96:01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | *03:01:01:01-03:01:01:03, 03:01:03-03:01:16, 03:01:18-03:02:01, 03:02:03-03:05:02, 03:06-03:13:01, 03:16, 03:18-03:23, 03:25-03:26, 03:28-03:34, 03:36-03:41:02, 03:43-03:68N, 03:70-03:77,                                                                                                                                                                                                                                                                                                                  |

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Lot-specific information

|                       |                         |        |                                                  |                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------|--------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                         |        |                                                  | 03:79-03:80, 03:82-03:86, 03:88-03:89,<br>03:91, 03:93-03:96, 03:98-03:110, 03:112-<br>03:125, 03:127-03:129, 03:131-03:132,<br>03:134-03:142, 11:07:01, 11:27:02-<br>11:27:03, 11:84:02-11:84:03, 11:103:01-<br>11:103:02, 11:107, 11:125, 11:173,<br>14:38:02, 14:171 |
| <b>55</b>             | 155 bp                  | 430 bp | *13:213                                          |                                                                                                                                                                                                                                                                         |
| <b>56<sup>4</sup></b> | 115 bp                  | 430 bp | *13:34, 13:64, 13:136, 13:174,<br>13:204, 13:221 | *03:43, 03:71:01, 11:76, 11:114, 11:183,<br>11:196, 14:41, 14:77, 14:110, <b>DRB3*01:14</b>                                                                                                                                                                             |
|                       | 210 bp                  |        | *13:178                                          |                                                                                                                                                                                                                                                                         |
|                       | 255 bp                  |        | *13:28                                           | *03:73                                                                                                                                                                                                                                                                  |
| <b>57</b>             | 155 bp                  | 430 bp | *13:215                                          |                                                                                                                                                                                                                                                                         |
| <b>58<sup>9</sup></b> | <b>Negative Control</b> |        |                                                  |                                                                                                                                                                                                                                                                         |

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of DRB1\*13 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 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 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 DRB1 alleles 1<sup>st</sup> and/or 3<sup>rd</sup> exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

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

<sup>5</sup>Primer mixes 20, 26 and 27 may have tendencies of unspecific amplifications.

<sup>6</sup>Primer mix 47 has a tendency to giving rise to primer oligomer formation.

<sup>7</sup>Primer mixes 26 may faintly amplify DRB1\*12:02 alleles.

<sup>8</sup>Primer mix 44 may give rise to a lower yield of HLA-specific PCR product than the other DRB1\*13 primer mixes.

<sup>9</sup>Primer mix 58 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’, may be weakly amplified.

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

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## PRIMER SPECIFICATION

| Well No.                                 | 1                    | 2                    | 3                    | 4                    | 5                    | 6                    | 7                    | 8                    | 9                    | 10                   | 11                   | 12                   |
|------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Length of spec. PCR product              | 175                  | 200                  | 200                  | 170                  | 220                  | 215                  | 200                  | 190                  | 270                  | 260                  | 210                  | 220                  |
| Length of int. pos. control <sup>1</sup> | 515                  | 430                  | 430                  | 430                  | 430                  | 515                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  |
| 5'-primer(s) <sup>2</sup>                | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 37(196)<br>5'-AgA 3' | 37(196)<br>5'-AgA 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' |
| 3'-primer(s) <sup>3</sup>                | 58(260)<br>5'-Cgg 3' | 67(286)<br>5'-gAT 3' | 67(286)<br>5'-gAA 3' | 57(256)<br>5'-gCT 3' | 71(298)<br>5'-CTT 3' | 71(298)<br>5'-CTC 3' | 86(344)<br>5'-CAC 3' | 86(344)<br>5'-CCA 3' | 86(344)<br>5'-CAC 3' | 86(344)<br>5'-CCA 3' | 67(286)<br>5'-gAg 3' | 71(299)<br>5'-gCT 3' |
|                                          | 58(260)<br>5'-CAg 3' | 67(286)<br>5'-gAT 3' | 67(286)<br>5'-gAA 3' |                      | 71(298)<br>5'-CCT 3' | 71(298)<br>5'-CgC 3' | 93(364)<br>5'-CCT 3' |                      | 93(364)<br>5'-CCT 3' |                      | 67(286)<br>5'-gAg 3' | 72(303)<br>5'-gCg 3' |
|                                          |                      | 67(286)<br>5'-gAT 3' |                      |                      | 74(307)<br>5'-CAg 3' |                      |                      |                      |                      |                      | 71(299)<br>5'-gCg 3' |                      |
| Well No.                                 | 1                    | 2                    | 3                    | 4                    | 5                    | 6                    | 7                    | 8                    | 9                    | 10                   | 11                   | 12                   |

| Well No.                                 | 13                   | 14                   | 15                   | 16                   | 17                   | 18                   | 19                   | 20                   | 21                   | 22                   | 23                   | 24                   |
|------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Length of spec. PCR product              | 145                  | 145                  | 85                   | 150                  | 220                  | 110                  | 110                  | 215                  | 175                  | 110                  | 115                  | 145                  |
|                                          |                      |                      |                      |                      |                      | 230                  | 205                  |                      | 220                  | 175                  | 245                  | 180                  |
|                                          |                      |                      |                      |                      |                      |                      | 260                  |                      |                      | 280                  |                      | 280                  |
| Length of int. pos. control <sup>1</sup> | 515                  | 430                  | 515                  | 430                  | 430                  | 430                  | 430                  | 515                  | 515                  | 430                  | 430                  | 515                  |
| 5'-primer(s) <sup>2</sup>                | 13(125)<br>5'-gTC 3' | 34(189)<br>5'-CAA 3' | 13(125)<br>5'-gTC 3' | 34(189)<br>5'-CAg 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 10(116)<br>5'-gCT 3' | 12(122)<br>5'-TAT 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' |
|                                          |                      | 34(189)<br>5'-CAA 3' |                      | 34(189)<br>5'-CAg 3' |                      |                      |                      | 16(133)<br>5'-gTT 3' | 26(164)<br>5'-gTA 3' |                      |                      |                      |
|                                          |                      | 37(197)<br>5'-gTT 3' |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3'-primer(s) <sup>3</sup>                | 47(227)<br>5'-ggT 3' | 71(298)<br>5'-CTC 3' | 28(171)<br>5'-CTC 3' | 71(298)<br>5'-CTC 3' | 72(303)<br>5'-gCg 3' | 37(196)<br>5'-gAT 3' | 37(196)<br>5'-gAT 3' | 71(299)<br>5'-gCT 3' | 71(299)<br>5'-gCT 3' | 37(196)<br>5'-gTC 3' | 38(199)<br>5'-CAg 3' | 46(223)<br>5'-CTA 3' |
|                                          |                      |                      |                      |                      |                      | 74(307)<br>5'-CAg 3' | 38(200)<br>5'-gCg 3' |                      |                      | 57(257)<br>5'-CgA 3' | 78(321)<br>5'-CAA 3' | 48(230)<br>5'-CCA 3' |
|                                          |                      |                      |                      |                      |                      | 77(318)<br>5'-TAA 3' | 68(290)<br>5'-CCC 3' |                      |                      | 93(365)<br>5'-gCT 3' | 84(337)<br>5'-CCg 3' | 60(266)<br>5'-Agg 3' |
|                                          |                      |                      |                      |                      |                      |                      | 86(344)<br>5'-CAT 3' |                      |                      |                      |                      | 93(365)<br>5'-gCg 3' |
| Well No.                                 | 13                   | 14                   | 15                   | 16                   | 17                   | 18                   | 19                   | 20                   | 21                   | 22                   | 23                   | 24                   |

101.116-24 – including *Taq* pol., IFU-01  
101.116-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **5G1**

Lot-specific information

| Well No.                  | 25                   | 26                   | 27                   | 28                   | 29                   | 30                   | 31                   | 32                   | 33                   | 34                   | 35                   | 36                   |
|---------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Length of spec.           | 110                  | 90                   | 145                  | 160                  | 155                  | 85                   | 145                  | 220                  | 80                   | 145                  | 150                  | 75                   |
| PCR product               | 140                  | 140                  |                      |                      |                      |                      | 175                  |                      |                      | 210                  | 280                  | 170                  |
|                           |                      |                      |                      |                      |                      |                      | 205                  |                      |                      | 255                  |                      | 260                  |
| Length of int.            | 430                  | 430                  | 515                  | 430                  | 430                  | 515                  | 515                  | 430                  | 430                  | 515                  | 430                  | 430                  |
| pos. control <sup>1</sup> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 5'-primer(s) <sup>2</sup> | 13(125)<br>5'-gTC 3' | 34(189)<br>5'-CAg 3' | 13(125)<br>5'-gTC 3' | 47(227)<br>5'-gTT 3' | 28(171)<br>5'-gAg 3' | 71(299)<br>5'-CgA 3' | 16(135)<br>5'-CAA 3' | 13(125)<br>5'-gTC 3' | 47(227)<br>5'-gTT 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' |
|                           |                      | 34(189)<br>5'-CAg 3' |                      |                      | 28(171)<br>5'-gAg 3' |                      | 27(167)<br>5'-CCA 3' |                      |                      |                      |                      |                      |
|                           |                      | 51(239)<br>5'-gAg 3' |                      |                      |                      |                      | 37(197)<br>5'-gTT 3' |                      |                      |                      |                      |                      |
| 3'-primer(s) <sup>3</sup> | 37(196)<br>5'-gTA 3' | 67(286)<br>5'-gAA 3' | 47(227)<br>5'-ggA 3' | 86(344)<br>5'-CCA 3' | 67(286)<br>5'-gAT 3' | 86(344)<br>5'-CCA 3' | 71(299)<br>5'-gCT 3' | 71(298)<br>5'-CTT 3' | 60(265)<br>5'-gTg 3' | 48(229)<br>5'-CCA 3' | 50(235)<br>5'-CAA 3' | 25(161)<br>5'-ACT 3' |
|                           | 37(196)<br>5'-ggA 3' | 67(286)<br>5'-gAA 3' | 48(229)<br>5'-CCA 3' |                      | 67(286)<br>5'-gAT 3' |                      |                      | 72(303)<br>5'-gCg 3' |                      | 70(295)<br>5'-CTC 3' | 93(365)<br>5'-gCT 3' | 53(245)<br>5'-CCA 3' |
|                           | 37(196)<br>5'-gAA 3' |                      |                      |                      |                      |                      |                      |                      |                      | 85(341)<br>5'-CAg 3' |                      | 56(254)<br>5'-TAA 3' |
|                           | 46(223)<br>5'-CTA 3' |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 86(343)<br>5'-CAT 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.           | 100                  | 70                   | 80                   | 90                   | 55                   | 225                  | 195                   | 145                  | 135                  | 135                  | 165                  | 115                  |
| PCR product               |                      |                      | 130                  | 120                  |                      |                      |                       |                      | 255                  | 205                  |                      |                      |
|                           |                      |                      | 280                  | 160                  |                      |                      |                       |                      |                      | 260                  |                      |                      |
| Length of int.            | 515                  | 430                  | 515                  | 515                  | 430                  | 430                  | 430                   | 430                  | 430                  | 430                  | 430                  | 430                  |
| pos. control <sup>1</sup> |                      |                      |                      |                      |                      |                      |                       |                      |                      |                      |                      |                      |
| 5'-primer(s) <sup>2</sup> | 37(196)<br>5'-AgA 3' | 67(286)<br>5'-ACA 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 32(181)<br>5'-TCT 3' | 6(103)<br>5'-CAT 3'  | 126(464)<br>5'-CAT 3' | 32(181)<br>5'-TCC 3' | 13(125)<br>5'-gTC 3' | 13(125)<br>5'-gTC 3' | 25(161)<br>5'-gCT 3' | 32(181)<br>5'-TCT 3' |
|                           |                      |                      |                      |                      |                      | 13(125)<br>5'-gTg 3' | 133(484)<br>5'-TCT 3' |                      |                      |                      |                      |                      |
| 3'-primer(s) <sup>3</sup> | 57(256)<br>5'-gCT 3' | 77(317)<br>5'-AgT 3' | 26(164)<br>5'-ggg 3' | 30(176)<br>5'-Agg 3' | 37(196)<br>5'-gTT 3' | 71(299)<br>5'-gCT 3' | 181(630)<br>5'-CTT 3' | 67(286)<br>5'-gAT 3' | 44(217)<br>5'-CAA 3' | 44(217)<br>5'-CAA 3' | 67(286)<br>5'-gAT 3' | 57(257)<br>5'-CAg 3' |
|                           |                      |                      | 43(214)<br>5'-gTA 3' | 39(202)<br>5'-gCA 3' |                      |                      |                       |                      | 82(332)<br>5'-AgC 3' | 64(277)<br>5'-CTA 3' |                      |                      |
|                           |                      |                      | 93(365)<br>5'-gCg 3' | 51(239)<br>5'-CCT 3' |                      |                      |                       |                      | 86(343)<br>5'-ACT 3' | 71(298)<br>5'-CTA 3' |                      |                      |
|                           |                      |                      |                      | 53(245)<br>5'-CCA 3' |                      |                      |                       |                      |                      | 86(343)<br>5'-ACT 3' |                      |                      |
| Well No.                  | 37                   | 38                   | 39                   | 40                   | 41                   | 42                   | 43                    | 44                   | 45                   | 46                   | 47                   | 48                   |

101.116-24 – including *Taq* pol., IFU-01  
101.116-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **5G1**

Lot-specific information

| Well No.                                 | 49                   | 50                   | 51                   | 52                    | 53                   | 54                   | 55                   | 56                   | 57                    |
|------------------------------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| Length of spec. PCR product              | 210                  | 220                  | 150                  | 125                   | 150                  | 235                  | 155                  | 115                  | 155                   |
|                                          |                      |                      |                      |                       |                      |                      |                      | 210                  |                       |
|                                          |                      |                      |                      |                       |                      |                      |                      | 255                  |                       |
| Length of int. pos. control <sup>1</sup> | 430                  | 430                  | 430                  | 430                   | 430                  | 430                  | 430                  | 430                  | 430                   |
| 5'-primer(s) <sup>2</sup>                | 10(115)<br>5'-AgA 3' | 9(114)<br>5'-TAg 3'  | 37(197)<br>5'-gTA 3' | 105(401)<br>5'-AAA 3' | 38(199)<br>5'-ACA 3' | 13(125)<br>5'-gTC 3' | 32(183)<br>5'-CAg 3' | 13(125)<br>5'-gTC 3' | 142(511)<br>5'-ggA 3' |
|                                          |                      | 13(125)<br>5'-gTg 3' |                      |                       |                      |                      |                      |                      |                       |
| 3'-primer(s) <sup>3</sup>                | 67(286)<br>5'-gAA 3' | 71(298)<br>5'-CTC 3' | 74(308)<br>5'-CCT 3' | 133(485)<br>5'-TCA 3' | 74(308)<br>5'-CCg 3' | 77(317)<br>5'-AgT 3' | 71(298)<br>5'-CTC 3' | 38(199)<br>5'-CAg 3' | 179(624)<br>5'-ACg 3' |
|                                          |                      |                      |                      |                       |                      |                      |                      | 70(295)<br>5'-CTC 3' |                       |
|                                          |                      |                      |                      |                       |                      |                      |                      | 84(337)<br>5'-CCg 3' |                       |
| Well No.                                 | 49                   | 50                   | 51                   | 52                    | 53                   | 54                   | 55                   | 56                   | 57                    |

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

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

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





**101.116-24 – including *Taq* pol., IFU-01**  
**101.116-24u/03u – without *Taq* pol., IFU-02**

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**Lot No.: 5G1**

### Lot-specific information

[illegible]



**101.116-24 – including *Taq* pol., IFU-01**  
**101.116-24u/03u – without *Taq* pol., IFU-02**

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**Lot No.: 5G1**

### Lot-specific information

[illegible]

101.116-24 – including *Taq* pol., IFU-01  
 101.116-24u/03u – without *Taq* pol., IFU-02

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**Lot-specific information**

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

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

No DNAs carrying the alleles to be amplified by primer solutions 17, 19 to 21, 24, 31, 33 to 36, 38 to 43, 45 to 50, 52, 53 and 55 to 57 were available.

The specificities of the primers in primer solution 17, 19 to 21, 24, 31, 33, 34, 38, 41, 48 and 56 were tested by separately adding additional 5'-primers and 3'-primers.

In primer solutions 35, 36, 39, 40, 45, 46 and 52 it was only possible to test the 5'-primer, the 3'-primers were not possible to test.

In primer solutions 42, 43, 47, 49, 50, 53, 55 and 57 it was only possible to test the 3'-primer, the 5'-primers were not possible to test.

In primer solution 21, 26 and 31 one or two of the 5'-primers were not possible to test. One, two or three of the 3'-primers in primer solutions 7, 9, 18, 19, 22 to 25, 27, 34 and 56 were not possible to test.

Additional primers in primer solutions 2, 5, 6, 11, 12, 14, 18, 23, 26 and 32 were tested by separately adding one or two 5'-primers or one 3'-primer.

101.116-24 – including *Taq* pol., IFU-01  
101.116-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **5G1**

Lot-specific information

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