

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

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Product number:                  | 101.701-24/06 – including <i>Taq</i> pol.                             |
| Lot number:                      | 23G                                                                   |
| Expiry date:                     | 2011-September-01                                                     |
| Number of tests:                 | 24 tests – Product No. 101.701-24<br>6 tests – Product No. 101.701-06 |
| Number of wells per test:        | 95 +1                                                                 |
| Storage - pre-aliquoted primers: | dark at -20°C                                                         |
| - PCR Master Mix:                | -20°C                                                                 |
| - Adhesive PCR seals             | RT                                                                    |
| - Product Insert                 | RT                                                                    |

**This Product Description is only valid for Lot No. 23G.**

### **CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-A-B-DR SSP COMBI TRAY LOT**

The **HLA-A low resolution** specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP®* HLA-A-B-DR SSP Combi Tray lot was made (**Lot No. 61F**).

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

| Well | 5'-primer | 3'-primer | rationale                           |
|------|-----------|-----------|-------------------------------------|
| 20   | Added     | -         | Primer added for the A*6848 allele. |

The **HLA-B low resolution** specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-A-B-DR SSP Combi Tray lot was made (**Lot No. 61F**).

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

| Well | 5'-primer | 3'-primer | rationale                               |
|------|-----------|-----------|-----------------------------------------|
| 26   | Exchanged | Exchanged | Improve specificity of primer pair.     |
| 27   | Exchanged | Exchanged | Decreased formation of primer dimers.   |
| 29   | -         | -         | Exchanged positive control primer pair. |
| 33   | -         | -         | Exchanged positive control primer pair. |
| 41   | -         | -         | Exchanged positive control primer pair. |
| 44   | Exchanged | Exchanged | Improve specificity of primer pair.     |
| 50   | -         | Added     | Primer added for the B*400205 allele.   |
| 51   | Exchanged | Exchanged | Decreased formation of primer dimers.   |
| 58   | Added     | -         | Primer added for the B*59xx alleles.    |
| 72   | -         | Exchanged | Decreased formation of primer dimers.   |

Lot No.: **23G**

Lot-specific information

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The **HLA-DR low resolution** specificity and interpretation tables have been updated for the HLA-DRB alleles described since the previous *Olerup* SSP® HLA-A-B-DR SSP Combi Tray lot was made (**Lot No. 61F**).

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

| Well | 5'-primer | 3'-primer | rationale                                                                      |
|------|-----------|-----------|--------------------------------------------------------------------------------|
| 77   | Added     | -         | New primer for the DRB1*0342 allele.                                           |
| 80   | Modified  | Modified  | Increased yield of specific PCR product, and decreased primer dimer formation. |
| 91   | -         | Removed   | 3'-primer removed, exchanged positive control primer pair.                     |
| 93   | -         | Exchanged | Improved resolution of the DRB1*0342 allele                                    |

Change in revision R01 compared to R00:

1. In primer mix 34, the positive control band may be weaker than for other HLA-B low primer mixes.
2. The numbers of the wells referred to in footnote 7 of the specificity table have been corrected.

Changes in revision R02 compared to R01:

1. Primer mix 3 may faintly amplify the A\*30:04, 30:06, 30:17 and 30:29 alleles.

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

PCR product sizes range from 75 to 430 base pairs.  
The PCR product generated by the control primer pair is 430 base pairs.

| Length of PCR product        | 105                  | 200                     | 105                  | 80                    | 75                    | 80                    |
|------------------------------|----------------------|-------------------------|----------------------|-----------------------|-----------------------|-----------------------|
| <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>             |
|                              | 5'-CAC <sup>3'</sup> | 5'-Agg <sup>3'</sup>    | 5'-TTA <sup>3'</sup> | 5'-Tg g <sup>3'</sup> | 5'-Tg g <sup>3'</sup> | 5'-Tg g <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>             |
|                              | 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>  |
| <b>A*</b>                    | +                    | +                       | +                    |                       |                       |                       |
| <b>B*</b>                    | +                    | +                       | +                    |                       |                       |                       |
| <b>Cw*</b>                   | +                    | +                       | +                    |                       |                       |                       |
| <b>DRB1</b>                  |                      |                         |                      | +                     | +                     |                       |
| <b>DRB3</b>                  |                      |                         |                      | +                     | +                     |                       |
| <b>DRB5</b>                  |                      |                         |                      | +                     |                       |                       |
| <b>DQB1</b>                  |                      |                         |                      |                       | +                     |                       |
| <b>DPB1</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.

## PRODUCT DESCRIPTION

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

#### CONTENT

The primer set contains 5'- and 3'-primers for grouping the HLA-A\*0101 to A\*8001 alleles into the corresponding serological groups A1 to A80.

The primer set contains 5'- and 3'-primers for grouping the B\*0702 to B\*8301 alleles into the corresponding serological groups B7 to B81 as well as primer pairs for recognizing the Bw4 and Bw6 sequence motifs.

The primer set contains 5'- and 3'-primers for grouping the DRB1\*0101 to DRB1\*1003 alleles into the corresponding serological groups DR1 to DR18 as well as primer pairs for recognizing the DRB3, DRB4 and DRB5 groups of alleles.

#### PLATE LAYOUT

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

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

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

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

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

Well 96 – Negative Control.

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

Well No. 1 is marked with the Lot No. '23G'.

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

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

#### INTERPRETATION

Only HLA-A alleles will be amplified by the 24 wells of the HLA-A low resolution primer set, **wells 1 to 24**, except that primer mix 6 will amplify the B\*1827 allele. Thus, the interpretation of HLA-A low resolution is only influenced by this HLA-B allele and not by other HLA Class I genes.

Only HLA-B alleles will be amplified by the 48 wells of the HLA-B low resolution, primer set, **wells 25 to 72**, except that the Cw\*0206 allele will be weakly amplified by primer mix 67, that the Cw\*0223 allele will be amplified by primer mix 25, that

the HLA-Cw\*0305, 0325 and 0327 alleles will be amplified by primer mix 27, that the Cw\*0620 allele will be amplified by primer mix 69, that the Cw\*0746 allele will be amplified by primer mix 32, and that the Cw\*150204 allele will be amplified by primer mix 64. Thus, the interpretation of HLA-B low resolution typings is only influenced by these HLA-Cw alleles and not by other alleles of other HLA class I genes.

Only HLA-DRB alleles will be amplified by the 23 wells the DR low resolution primer set, **wells 73 to 95**. Thus, the interpretation of DR low resolution typings is not influenced by other HLA class II genes.

## UNIQUELY IDENTIFIED ALLELES

All the HLA-A alleles, i.e. **A\*0101 to A\*8001**, recognized by the HLA Nomenclature Committee in July 2009<sup>1</sup> will be amplified by the primers in the HLA-A low resolution primer set, **wells 1 to 24**. The HLA-A alleles will be grouped into their corresponding serological specificities<sup>2</sup>.

All the HLA-B alleles, i.e. **B\*0702 to B\*8301**, recognized by the HLA Nomenclature Committee in July 2009<sup>1</sup> will be amplified by the primers in the HLA-B low resolution primer set, **wells 25 to 72**. The HLA-B alleles will be grouped into their corresponding serological specificities<sup>3</sup>.

All the HLA-DRB1, -DRB3, -DRB4<sup>4</sup> and -DRB5 alleles, i.e. **DRB1\*010101 to 1003, DRB3\*01010201 to DRB3\*0303, DRB4\*01010101 to DRB4\*0107, DRB5\*010101 to DRB5\*0205**, recognized by the HLA Nomenclature Committee in July 2009<sup>2</sup> will be amplified by the primers in the DR low resolution primer set, **wells 73 to 95**. The HLA-DRB alleles will be grouped into their corresponding serological specificities<sup>5</sup>.

<sup>1</sup>HLA-A, HLA-B and HLA-DRB alleles listed on the IMGT/HLA web page 2009-July-17, release 2.26.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>The A\*0318 and A\*2619 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

The A\*2314, A\*2405, A\*241302 and A\*2424 alleles will give rise to identical amplification patterns. These four alleles can be separated by the respective high resolution SSP primer sets.

<sup>3</sup>The B\*0826 and the B\*4207 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets. The B\*1408 and the B\*3925N, B\*3930, B\*3932 to 3934, 3947 and 3950 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*1829 and the B\*3532, B\*3537, B\*3553N, B\*3564, B\*356801-356802 and B\*3599 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*5504, B\*5508, B\*5513, B\*5527 and the B\*5615, B\*5619N and B\*5622 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*5523, B\*5532 and the B\*5618 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

<sup>4</sup>The DRB4\*0201N and DRB4\*0301N null alleles will not be amplified by the DR low resolution primer set.

<sup>5</sup>The DRB1\*0809, DRB1\*0821 and DRB4\*1415 alleles yield identical amplification patterns except for the specific PCR product yielded by the DRB3 gene in linkage disequilibrium with the DRB1\*1415 allele. The DRB1\*0820, DRB1\*1318, DRB1\*1347 and DRB1\*1355 alleles yield identical amplification patterns except for the specific PCR product yielded by the DRB3 gene in linkage disequilibrium with the DRB1\*1318, DRB1\*1347 and DRB1\*1355 alleles. The DRB1\*0831 and DRB1\*1167 alleles yield identical amplification patterns except for the specific PCR product yielded by the DRB3 gene in linkage disequilibrium with the DRB1\*1167 allele.

## SPECIFICITY TABLE

### HLA-A low resolution primer set

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

| Primer Mix            | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | HLA-A serology <sup>3</sup>                    | Amplified HLA-A alleles <sup>4,10,11</sup>                                                                                                                                      |
|-----------------------|----------------------------------------|-----------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1<sup>5</sup></b>  | 120, 145 bp                            | <b>800 bp</b>                     | A1, A36                                        | *01010101-0104N, 0106-0135, 0137, 3601-3604                                                                                                                                     |
| <b>2<sup>6</sup></b>  | 135, 200, 255 bp                       | 1070 bp                           | A2                                             | *02010101-020115, 020117-020119, 020121-022202, 0224-023501, 023503-0247, 0249-0297, 0299, 9201-9221, 9223-9228, 9230-9257, 9269-9271, 9277-9279                                |
| <b>3<sup>12</sup></b> | 205, 235 bp                            | 1070 bp                           | A1, A3, A11, A24, A32, A34, A36                | *0112, 0119, 0121, 03010101-0317, 0319-0347, 0350, 0351, 0355, 1125, 2492, 3204, 3402-3404, 3407, 3408, 3602                                                                    |
| <b>4</b>              | 190 bp                                 | <b>800 bp</b>                     | A1, A2, A3, A11, A26, A30, A36                 | *01010101-0104N, 0106, 0107, 0109-0111N, 0113, 0116N-0118N, 0120-0129, 0131N-0135, 0137, 0278, 9269, 0312, 0318, 110101-1127, 1129-1144, 2619, 3008, 3604                       |
| <b>5</b>              | 160, 535 bp                            | <b>800 bp</b>                     | A3, A23, A24, A31, A32                         | *0330, 230101-2321, 24020101-240217, 240220-2411N, 241301-2415, 2417-2464, 2466-2488, 2490N-2499, 3108, 3205, 3213                                                              |
| <b>6</b>              | 165, 200 bp                            | <b>800 bp</b>                     | A2, A23, A24, A29, A80                         | *9222, 230101-2321, 2405, 241302, 2424, 2907, 8001, <b>B*1827</b>                                                                                                               |
| <b>7<sup>7</sup></b>  | 175, 200 bp                            | 1070 bp                           | A2, A23, A24, A26, A33, A68                    | *021701 <sup>w</sup> , 021702 <sup>w</sup> , 2314, 24020101-240217, 240220-2411N, 241301, 241302, 2417-2450, 2454-2456, 2458-2463, 2466-2491, 2493, 2495-2499, 2616, 3319, 6845 |
| <b>8</b>              | 165, 200 bp                            | <b>800 bp</b>                     | A2, A3, A11, A25, A26, A32, A34, A66, A68, A69 | *0255, 0324, 0350, 1110, 250101-2508, 260101-2606, 2608-2615, 2617, 2618, 2620-2638, 2640, 3215, 340101-3408, 6601-6610, 680101-6848, 6901                                      |

Lot No.: **23G**

Lot-specific information

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|                           |                  |               |                                          |                                                                                                                                                                                                                                                                                           |
|---------------------------|------------------|---------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>9<sup>5</sup></b>      | 75 bp            | <b>800 bp</b> | A25, A32                                 | *250101-2508, 320101-3202, 3204, 3206-3219N                                                                                                                                                                                                                                               |
| <b>10<sup>5,7</sup></b>   | 85 bp            | 1070 bp       | A2, A26, A33                             | *9246, 260101-2602, 2604, 260701-2618, 2620, 2622-2629, 2632-2638, 2640, 3313                                                                                                                                                                                                             |
| <b>11<sup>5,7,8</sup></b> | 80, 175, 500 bp  | 1070 bp       | A1, A11, A24, A26, A31, A34, A66         | *0113, 0128, 110101-1127, 1129-1144, 2419, 2444, 2603, 2606, 2621, 3103, 340101-3408, 6601, 6604-6610                                                                                                                                                                                     |
| <b>12</b>                 | 185 bp           | <b>800 bp</b> | A11, A25, A26, A31, A34, A43, A66        | *1111, 2506, 2609, 3103, 3104, 340101-3408, 4301, 6602, 6603                                                                                                                                                                                                                              |
| <b>13</b>                 | 175, 225 bp      | 1070 bp       | A1, A2, A3, A25, A26, A34, A43, A66, A74 | *0113, 0234-023503, 025601, 025602, 0262, 9203, 9235, 03010101-0307, 0309-0311N, 0313-0331, 0333-0335, 0337-0340, 0342-0347, 0350, 0351, 0355, 250101-2505, 2507, 2508, 260101-260108, 2602 <sup>w</sup> , 2603, 2605-2608, 2610-2633, 2635-2638, 2640, 3408, 4301, 6601, 6604-6610, 7413 |
| <b>14</b>                 | 200, 240 bp      | 1070 bp       | A29, A33                                 | *29010101-2919, 3313                                                                                                                                                                                                                                                                      |
| <b>15<sup>5</sup></b>     | 90, 135, 205 bp  | 1070 bp       | A1, A3, A30                              | *0113, 0128, 0343, 300101-3004, 3006-3020, 3022-3028                                                                                                                                                                                                                                      |
| <b>16</b>                 | 370, 395 bp      | 1070 bp       | A31, A32                                 | *2914, 310102-3125, 3205                                                                                                                                                                                                                                                                  |
| <b>17</b>                 | 150, 180 bp      | 1070 bp       | A29, A32                                 | *0343, 2913, 320101-3203, 3205-3219N                                                                                                                                                                                                                                                      |
| <b>18</b>                 | 200 bp           | 1070 bp       | A33, A68                                 | *330101, 330301-3325, 6829                                                                                                                                                                                                                                                                |
| <b>19</b>                 | 160, 200 bp      | <b>800 bp</b> | A29, A74                                 | *2919, 7401-7414N                                                                                                                                                                                                                                                                         |
| <b>20</b>                 | 155, 200, 240 bp | <b>800 bp</b> | A2, A210, A24, A25, A30, A68             | *0210, 0234-023503, 0239, 0246, 0248, 0250, 0252, 025601, 025602, 0262, 0270, 0273, 0278, 0293, 0295, 9203, 9210, 9214, 9217, 9222, 9229, 9256, 2494, 2505, 680101-6848                                                                                                                   |
| <b>21</b>                 | 240, 375 bp      | <b>800 bp</b> | A2, A24, A26, A68, A69                   | *0255, 2482, 2622, 3322, 6609, 6829, 6901                                                                                                                                                                                                                                                 |
| <b>22<sup>5,9</sup></b>   | 85, 240 bp       | <b>800 bp</b> | A2, A30, A36                             | *0234-023503, 0246, 0248, 025601, 025602, 0262, 0270, 0278, 9203, 9229, 3601-3604                                                                                                                                                                                                         |

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Lot-specific information

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|                         |            |               |                                          |                                                                                                                                                              |
|-------------------------|------------|---------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>23<sup>5,7</sup></b> | 75, 160 bp | <b>800 bp</b> | A2, A26,<br>A68, A80                     | *0255, 2603, 2605, 2606, 2621,<br>2630, 3324, 6805, 6815, 6820,<br>8001                                                                                      |
| <b>24</b>               | 360 bp     | 1070 bp       | A1, A3,<br>A11, A33,<br>A36, A74,<br>A80 | *01010101-0104N, 0106, 0108-<br>0129, 0131N-0135, 0137, 0341,<br>110101-1111, 1113-1117, 1119-<br>1127, 1129-1140, 1142-1144,<br>3313, 3601-3604, 7410, 8001 |

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

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

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 two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-A low resolution typing.

In addition, wells number 4, 5, 6, 8, 9, 12 and 19 to 23 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>The serological reactivity of all HLA-A alleles is not known. In this table we use the information in the HLA Dictionary 2004 on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site and the information available at the [www.worldmarrow.org](http://www.worldmarrow.org) web site and have also inferred the serological grouping from the naming of the sequence-defined allele.

<sup>4</sup>For several HLA-A alleles only partial 1<sup>st</sup> exon nucleotide sequences are available. We assume that unknown sequences are conserved within allelic groups.

Nucleotide sequence information is available for only exons 2 and 3 of many HLA Class I alleles and for only exon 2 of many HLA Class II alleles and not for other exons or for the introns of these alleles. We assume that unknown sequences in these exons and in the introns are conserved within loci and within allelic groups.

<sup>5</sup>Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

<sup>6</sup>The primer pairs in vial 2 will in most samples give rise to two specific PCR fragments.

<sup>7</sup>Primer mixes 7, 10, 11 and 23 may yield less specific PCR product than the other primer mixes.

<sup>8</sup>The primer pairs in vial 11 will in most samples give rise to two to three specific PCR fragments.

<sup>9</sup>Primer mix 22 might faintly amplify most A\*11 alleles.

<sup>10</sup>The A\*0318 and A\*2619 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

The A\*2314, A\*2405, A\*241302 and A\*2424 alleles will give rise to identical amplification patterns. These four alleles can be separated by the respective high resolution SSP primer sets.

<sup>11</sup>Primer mix 6 will amplify the B\*1827 allele.

<sup>12</sup>Primer mix 3 may faintly amplify the A\*30:04, 30:06, 30:17 and 30:29 alleles.

'w', might be weakly amplified.

## SPECIFICITY TABLE

### HLA-B low resolution primer set

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

| Primer Mix            | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | HLA-B serol. <sup>3</sup>                      | Amplified HLA-B alleles <sup>4,5</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|----------------------------------------|-----------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>25<sup>6</sup></b> | 110 bp                                 | <b>800 bp</b>                     | 7, 15, 37, 40, 41, 42, 48                      | *070201-070207, 070209-071802, 0720-0732, 0734-0739, 0741-0747, 0749N, 0750, 0752, 0754-0759, 0761-0772, 0775-0777, 9538, 3707, 4015, 4016, 4023, 4032, 4098, 4108, 420501, 420502, 4805, 4808, 4815,<br><b>Cw*0223</b>                                                                                                                                                                                                                                                                        |
| <b>26</b>             | 215 bp                                 | 1070 bp                           | 8, 15, 44                                      | *080101-0825, 0827-0838, 0840, 9542, 4449                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>27</b>             | 140, 235 bp                            | 1070 bp                           | 7, 8, 13, 15, 35, 40, 4005, 44, 46, 53, 57, 58 | *0720, 0724, 0760, 0821, 0825, 130101-1304, 1306-1308Q, 1310-1323, 1325, 1326, 1507, 1536 <sup>w</sup> , 1545, 1555, 1568, 1589 <sup>w</sup> , 9526, 3505, 3516, 3517, 3522, 3530, 3551, 3558, 3572, 3589, 3597, 4005, 4071, 4408 <sup>w</sup> , 4454, 4457 <sup>w</sup> , 4460, 4612, 5164, 5314, 5818,<br><b>Cw*0305, Cw*0325, Cw*0327</b>                                                                                                                                                   |
| <b>28<sup>7</sup></b> | 130, 265 bp                            | 1070 bp                           | 13, 14, 15, 35, 40, 41, 44, 45, 47, 49, 50     | *130101-1304, 1306-1313, 1315-1323, 1325, 1326, 1401-1404, 1407N, 1409, 1546, 1553, 9506, 3546, 3547, 3563, 400101-400106, 4007, 4010, 401401-4016, 4022N, 4023, 4025, 4030-4034, 4036, 4038, 4042, 4043, 4045, 4047-4049, 4051-4055, 4058-4063, 4065-4067, 4069, 407201-4073, 4076, 4077, 4079-4081, 4084, 4087, 4088, 4092, 4101-4108, 44020101-440205, 440208-4405, 4409-4439, 4441-4443, 4445-4456N, 4458N-4467, 4469, 4501-4509, 47010101-4705, 490101-4902, 4904, 4905, 5001, 5002, 5004 |
| <b>29<sup>8</sup></b> | 185, 235 bp                            | <b>800 bp</b>                     | 14, 16, 27, 37, 38, 39,                        | *1401, 1407N, 1408, 1410, 2701-2706, 2708-2710, 2712, 2713,                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                          |                  |               |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------|---------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                  |               | 47, 64, 67                                                | 2716-2718, 2720, 2723, 2726, 2727, 2729, 2731, 2735-2737, 2739-2742, 2744-2746, 2750-2752, 3702, 380101-3803, 3807-3819, 39010101, 39010102L, 390103-390201, 3903, 3905-390602, 3907 <sup>?</sup> , 3908, 3909, 3911, 3914, 3915, 3918, 391902, 3922, 3924-3944, 3946-3948, 3950, 4704, 4705, 670101                                                                                                                                                                                                                                   |
| <b>30<sup>8</sup></b>    | 185 bp           | <b>800 bp</b> | 14, 35, 38, 39, 65                                        | *140201-140602, 1409, 3526, 3805, 3904, 3907 <sup>?</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>31</b>                | 290 bp           | 1070 bp       | 15, 62, 63, 75, 76, 77, 46                                | *15010101-150103, 150106-1502, 1504-1508, 151101-1515, 15170101-151702, 1519-1521, 1524-1528, 1530-1536, 1538-1540, 1542-1546, 1548, 1550, 1555-1558, 1560, 1563, 1565, 1566, 1570, 1571, 1573, 1575-1579N, 1581-1589, 1592, 1594N, 1596, 1597, 9501, 9502, 9504-9507, 9509-9513, 9516-9518, 9520-9522, 9525, 9526, 9528, 9529, 9535-9550, 9552, 9554, 9555, 9557, 9559, 9560, 9563, 9564, 460101-4619, 4621                                                                                                                           |
| <b>32</b>                | 165, 220, 330 bp | 1070 bp       | 8, 15, 35, 37, 40, 41, 42, 44, 45, 51, 56, 57, 70, 71, 72 | *080101-0805, 0808N-081201, 0815-0819N, 0821-0824, 0826, 0827, 0829-0836, 0838, 150301, 1509, 1510, 1518, 1523, 1529, 1537, 1546, 1547, 1549, 1551-1554, 1561, 1562, 1564, 1569, 1572, 1574, 1580, 1583, 1590, 1591, 1593, 1598, 1599, 9503, 9506, 9508, 9514, 9515, 9519, 9523, 9524, 9527, 9531-9534, 9543, 9551, 9553, 9556, 9558, 9561, 3587, 3712, 4012, 4101-410302, 4105-4108, 4201, 4202, 4204-4208, 4210-4212, 4414, 4415, 4418, 4420, 4462, 4501-4509, 5108, 5120, 5136, 5144N, 5520, 5613, 5709, 8201, 8202, <b>Cw*0746</b> |
| <b>33<sup>9,12</sup></b> | 165, 390 bp      | 1070 bp       | 15, 35, 40, 44, 51, 52, 56, 58, 62, 63, 70, 78            | *150102, 1509, 1516-151702, 1567, 1595, 350402, 4026, 4028, 4462, 510101-510103, 510105-510203, 5103-510902, 5111N, 5112,                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                          |                |               |                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                |               |                                                                                                                                             | 511302, 5114, 5117-5120, 5122, 5123, 5126-5130, 5132, 5133, 5137-5141N, 5143, 5144N, 5146, 5148-5161, 5163-5165, 520101-5207, 5209-5213, 560501-5606, 5621, 5808, 7801-7806                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>34<sup>9,10</sup></b> | 180, 395<br>bp | <b>800 bp</b> | 13, 15, 40,<br>55, 62, 70,<br>71, 72, 75                                                                                                    | *130101-130205, 1307N-1309, 1311, 1314-1320, 132201-1323, 1325, 1509, 1510, 1518, 1521, 1523, 1537, 1544, 1551, 1552, 1566, 1572, 1580, 1590, 1593, 1599, 9508, 9514, 9515, 9519, 9524, 9533, 9534, 9553, 9561, 4048, 5509, 5522, 5524                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>35<sup>6</sup></b>    | 105, 195<br>bp | 1070<br>bp    | 7, 8, 15,<br>27, 38, 39,<br>40, 44, 45,<br>48, 55, 72                                                                                       | *0727, 0750, 0804, 0817, 150301, 1547, 1549, 1554, 1561, 1562, 1564, 1568, 1569, 1591, 1598, 9503, 9523, 9527, 9531, 9532, 9551, 9556, 9558, 9561, 2718, 2729, 2750, 3803, 390201, 390202, 3908, 391301, 391302, 3923, 3939, 3949, 4012, 4046, 4093, 4211, 4410, 4415, 4418, 4440, 4444, 4501, 4505-4507, 480101-4805, 4807-4819, 5002, 5518, 8201, 8202                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>36</b>                | 280 bp         | 1070<br>bp    | 7, 8, 13,<br>15, 18, 27,<br>35, 39, 40,<br>42, 44, 46,<br>48, 49, 51,<br>53, 54, 55,<br>56, 57, 58,<br>62, 63, 70,<br>71, 72, 75,<br>76, 77 | *0709, 0711, 0717, 0828, 0835, 0837, 1304, 1310, 1326, 15010101-150104, 150106-1508, 151101-1516, 1518-1521, 1523-1529, 1531-1536, 1538-1540, 1543, 1544, 1546, 1547, 1549-1557, 1560-1562, 1564-1572, 1574-1576, 157801-1582, 1584, 1585, 1587-1589, 1591-1598, 9501-9529, 9531, 9532, 9534-9536, 9538-9549N, 9551-9561, 9563, 9564, 180101-1815, 1817N-1825, 1827-1833, 1835, 2741, 350101-350107, 3505, 3507-350803, 3510, 3511, 351401-3517, 3519-3521, 3523-3530, 3532, 3535, 3537, 3540N-3543, 3545-3554, 3557, 3558, 3561-3564, 3566-3569, 3571, 3572, 3576-3580, 3582, 3586, 3589-3594, 3597, 3599, 3907, 3943, 4003, 4020, 4038, 4052, 4059, 4060, 4209, 4417, 4443, 4509, 460101-4610, 4612-4617, 4619, 4621, 4802, 4814, 4904, 4905, |

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|                       |             |               |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|-------------|---------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |             |               |                                                                            | 5137, 5145, 5163, 530101-5303, 5305, 5306, 5308-5318, 5406, 5409, 5414, 5514, 5523, 5532, 5603, 5609, 5618, 570101-570103, 5706, 5708, 5710, 5711, 5713-5716, 5718, 5719, 580101-5802, 5804-5807, 5809-5819, 5821                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>37</b>             | 195 bp      | 1070 bp       | 15, 35, 37, 38, 44, 45, 58, 76                                             | *1512, 1514, 1519, 1591, 9531, 9561, 3545, 3571, 370101-3709, 3712, 3713, 3817, 4417, 4443, 4509, 4617, 5807                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>38<sup>6</sup></b> | 105, 435 bp | 1070 bp       | 7, 15, 41, 42, 59, 62, 63, 77                                              | *0704, 0725, 1513, 1516-151702, 1523, 1524, 1567, 1587, 1595, 9557, 4108, 420501, 420502                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>39<sup>6</sup></b> | 115 bp      | 1070 bp       | 18                                                                         | *180101-1815, 1817N-1828, 1830-1833, 1835                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>40<sup>6</sup></b> | 80 bp       | 1070 bp       | 27, 40, 44                                                                 | *2701-2721, 2723-2746, 2750, 2751, 4046, 4093, 4440, 4444                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>41</b>             | 150 bp      | <b>800 bp</b> | 13, 15, 18, 27, 35, 37, 39, 40, 44, 48, 51, 53, 55, 56, 57, 58, 62, 75, 77 | *130101, 130102, 1306, 1307N, 1312, 1313, 1317, 1320, 132201-1323, 1325, 1326, 1410, 1502, 1513, 1520, 1521, 152501, 1536, 1544, 1562, 1577, 1580, 1585, 1588, 1589, 9506, 9512, 9521, 9539, 9544, 9554, 1822, 2719, 2730, 350101-350403, 3506-350803, 3510-3517, 3519-3521, 3523-3530, 3533-3536, 3538-3542, 3545-3550, 3552, 3554-3557, 3559, 3561-3563, 3565Q, 3569-3571, 3574, 3576-3578, 3580-3585, 3590-3595, 370101-370105, 3703N-3706, 3708, 3710, 3711, 3713, 3714, 3942, 4028, 44020101-440205, 440208-4414, 4416, 4417, 4419N, 4421-4430, 4432-4440, 4442-4446, 4448-4452N, 4455-446402, 4466, 4467, 4469, 4802, 5104, 5142, 5146, 5156, 530101-5313, 5315-5318, 5514, 5609, 5611, 5612, 570101-5710, 5712, 5714-5719, 580101, 580102, 5804, 5805, 5809-5815, 5817N, 5819, 5821, 8301 |
| <b>42</b>             | 135 bp      | 1070 bp       | 7, 8, 18, 35, 37, 39, 56, 78                                               | *0765, 0832, 180101-1808, 1810-1815, 1817N-1833, 1835, 350101-3518, 352001-3524, 3528-3545, 3548, 3550-3555, 3557-3562, 3564-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|------------------------|-------------|---------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        |             |               |                                                          | 3572, 3574-3595, 3597, 3599, 3711, 391901, 391902, 5606, 7801-7805                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>43</b>              | 245, 400 bp | 1070 bp       | 15, 62, 63, 70, 71, 72, 75, 76, 77, 40, 44               | *15010101-150104, 150106-1521, 1523-1540, 1542-1558, 1560-1567, 1569-1575, 1576 <sup>w</sup> , 1577-1599, 9501-9529, 9531-9561, 9563, 9564, 4012, 4410, 8201, 8202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>44</b>              | 210 bp      | <b>800 bp</b> | 7, 8, 15, 18, 37, 38                                     | *0727, 370101-3714, 3817                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>45</b>              | 170 bp      | <b>800 bp</b> | 15, 35, 38, 39, 67                                       | *1569, 3535, 380101-3809, 3811-3819, 39010101, 39010102L, 390103-3920, 3922-3924, 3926-3929, 3931, 3935, 3937-3942, 3944-3946, 3948, 3949, 5820, 670101-6702                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>46<sup>6</sup></b>  | 110 bp      | 1070 bp       | 38                                                       | *380101-3803, 3805, 3808-3819                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>47</b>              | 395 bp      | 1070 bp       | 14, 38, 39, 64, 65                                       | *0769, 1401-1410, 380101-380202, 3804, 3805, 3808-3819, 39010101, 39010102L, 390103-390106, 3903-3907, 3909, 3911, 3912, 3914, 3915, 3918-391902, 3922, 3924-3938Q, 3940N-3948, 3950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>48</b>              | 425 bp      | 1070 bp       | 7, 8, 14, 39, 40, 41, 42, 45, 48, 50, 60, 64, 65, 67, 73 | *070201-070207, 070209-0726, 0728-0735, 0737, 0739-0764, 0766-0772, 0775-0777, 080101-080106, 0804-0835, 0837, 0838, 0840, 1401-1410, 39010101, 39010102L, 390103-3920, 3922-3950, 400101-400106, 4007, 4009 <sup>?</sup> -4011 <sup>?</sup> , 401401 <sup>?</sup> -4015 <sup>?</sup> , 4016, 4018 <sup>?</sup> , 4021 <sup>?</sup> , 4022N <sup>?</sup> , 4023, 4024 <sup>?</sup> -4038 <sup>?</sup> , 4040 <sup>?</sup> , 4042 <sup>?</sup> -4046 <sup>?</sup> , 4048 <sup>?</sup> -4050 <sup>?</sup> , 4051, 4052 <sup>?</sup> -4058 <sup>?</sup> , 4059, 4060, 4061 <sup>?</sup> -4065 <sup>?</sup> , 4066, 4067 <sup>?</sup> -4069 <sup>?</sup> , 4071 <sup>?</sup> , 407201-4073, 4074 <sup>?</sup> , 4075 <sup>?</sup> , 4077, 4078 <sup>?</sup> , 4079, 4080 <sup>?</sup> -4088 <sup>?</sup> , 4090 <sup>?</sup> -4093 <sup>?</sup> , 4095 <sup>?</sup> , 4098 <sup>?</sup> , 4101-4108, 4201, 4202, 4204-4212, 4501-4509, 480101-4817, 4819, 5001, 5002, 5004, 670101-6702, 7301, 8102 |
| <b>49<sup>13</sup></b> | 175 bp      | 1070 bp       | 15, 40, 44, 46, 48, 60                                   | *9516, 9524, 400101-400106, 4007, 4010, 4012, 4021-4023, 4025, 4033, 4036, 4038, 4042, 4043, 4046-4049, 4051, 4052, 4054, 4055, 4060-4063, 4065-4067, 4069, 4073, 4074, 4076, 4079, 4081, 4084, 4087, 4088,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|--------------------------|-----------------------|---------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>50</b>                | 130 bp                | 1070 bp       | 40, 61                                            | 4092, 4431, 4606, 480301, 480302<br>*400201-400602, 4008, 4009, 4011, 4013, 4018-4020, 4024, 4026-4029, 4035, 4037, 4039, 4040, 4044, 4050, 4056, 4057, 4064, 4068, 4070, 4071, 4074, 4075, 4078, 4082, 4085, 4086, 4089-4091, 4094-4098                                                                                                                                                                                                                                                                                           |
| <b>51<sup>6</sup></b>    | 105 bp                | 1070 bp       | 7, 8, 35, 41, 42, 55                              | *0704, 0725, 080101-0805, 0807-081201, 0814-0819N, 0821-0824, 0826-0838, 3587, 4101-4108, 4201, 4202, 4204-4207, 4209-4212, 5520                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>52</b>                | 325 bp                | 1070 bp       | 7, 15, 27, 35, 42, 45, 46, 54, 55, 56, 67, 73, 81 | *070201-070207, 070209, 0704-0707, 0709-0712, 0713 <sup>w</sup> , 0714, 0715 <sup>w</sup> , 0717-0726, 0728-0731, 0733-0736, 0739-0749N, 0751-0768, 0770-0772, 0775-0777, 1576, 9501, 2701-2711, 2713-2715, 2717, 2719-2721, 2724-2728, 2730-2738, 2740-2746, 2750-2752, 3576, 4201, 4202, 4204-4206, 4208-4210, 4212, 4506, 460101, 460102, 4602 <sup>w</sup> , 4603-4619, 4621, 5401-5419, 550101-5505, 5507-5517, 5519-5535, 5601-5616, 5618-5622, 5624, 670101, 670102, 6702 <sup>w</sup> , 7301, 8101-8104N, 8201, 8202, 8301 |
| <b>53<sup>6,14</sup></b> | 115, 195, 225, 260 bp | 1070 bp       | 35, 37, 44, 47, 51, 57                            | *3538, 3545, 3571, 370101-370105, 3703N-3706, 3708, 3710-3714, 44020101-440205, 440208-4414, 4416, 4417, 4419N-4436, 4438-4463, 4465-4467, 4469, 5142, 5707, 5709, 8301                                                                                                                                                                                                                                                                                                                                                            |
| <b>54</b>                | 215 bp                | <b>800 bp</b> | 8, 12, 15, 41, 42, 44, 45, 51, 52, 53, 55, 56, 58 | *0809, 1583, 4101, 4105-4107, 4204, 4406, 4415, 4418, 4420, 4501-4509, 510101, 510103-510108, 510201, 510203-5104, 5106-510901, 5110-5114, 5116-512402, 5126-5146, 5148, 5149, 5151-5153, 5155-5165, 520102, 520104-5203, 520601, 520602, 5209, 5306, 5520, 5613, 5808                                                                                                                                                                                                                                                             |
| <b>55</b>                | 130, 270 bp           | 1070 bp       | 18, 35, 37, 40, 46, 51, 53, 57, 58                | *1410, 1557 <sup>w</sup> , 1822, 3521, 3524, 3581, 3704, 4028, 460101-4619, 4621, 5104, 5146, 5156, 5302, 5306, 5714, 5809                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>56<sup>6</sup></b>    | 90, 410 bp            | 1070 bp       | 7, 27, 35, 47, 54, 55,                            | *0765, 2702-2711, 2713-2715, 2717, 2719-2721, 2724-2728, 2730-                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-----------------------|-------------|---------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |             |               | 56, 81                                             | 2738, 2740-2746, 2750-2752, 3576, 47010101-4703, 5401-5419, 550101-5505, 5507-5517, 5519-5535, 5601-5616, 5618-5622, 5624, 8101, 8201, 8202, 8301                                                                                                                                                                                                                                                                           |
| <b>57<sup>6</sup></b> | 90, 175 bp  | 1070 bp       | 15, 27, 35, 40, 48, 62, 75, 77, 81                 | *1502, 1508, 151101-151103, 1513, 1515, 1521, 1531, 1544, 1555, 1576 <sup>w</sup> , 1588, 1589, 9512, 9521, 9539, 9544, 9548, 2724, 3546, 4031, 4045, 4080, 480101, 480102, 4804, 4806, 4807, 4809, 4811, 4815, 4816, 4818, 4819, 5535 <sup>w</sup> , 8101-8104N                                                                                                                                                            |
| <b>58</b>             | 145, 430 bp | 1070 bp       | 40, 44, 49                                         | *4013, 4019, 4418, 4425, 4450, 490101, 490102, 4904, 4905, 5412, 5621, 5901-5905                                                                                                                                                                                                                                                                                                                                            |
| <b>59<sup>6</sup></b> | 120, 210 bp | <b>800 bp</b> | 13, 15, 45, 49, 50, 51, 52, 55, 56, 58, 62, 63, 78 | *1316, 1504 <sup>w</sup> , 1516, 1542, 1567, 1595, 9537 <sup>w</sup> , 4095, 490101, 4902-4905, 5001, 5002, 5004, 510101-5103, 5105, 5107-510902, 5111N-5114, 5116-512402, 5126-5141N, 5143, 5144N, 5148-5155, 5157, 5158, 5160, 5161 <sup>w</sup> , 5163, 5165, 520101-5214, 550101-550104, 5503, 5505, 5509, 5511, 5515, 5517, 5521 <sup>w</sup> , 5524, 5525, 5528, 5529, 5531, 5533, 560501-5606, 5621, 5808, 7801-7806 |
| <b>60</b>             | 430 bp      | 1070 bp       | 27, 40, 44, 45, 51, 52, 53, 57, 58, 59             | *2702, 2730, 4013, 4019, 4406, 4425, 4450, 510101-512402, 5126-5146, 5148, 5149, 5151-5153, 5155-5165, 520101-5214, 530101-5302, 5304-5308, 5310, 5314-5318, 570101-5711, 5713-5719, 580101-5802, 5804-5816, 5818-5821                                                                                                                                                                                                      |
| <b>61</b>             | 145 bp      | 1070 bp       | 15, 35, 40, 41, 44, 45, 47, 50, 72                 | *1546, 1553, 9506, 9543, 3519, 3547, 3563, 400101-4011, 401401-4016, 4018, 4020, 4022N-4040, 4042-4045, 4048-4075, 4077-4092, 4094, 4095, 4097, 4098, 4101-4104, 4105 <sup>?</sup> , 4106-4108, 4409, 4446, 4501-4509, 4702, 4703 <sup>w</sup> , 5001, 5002, 5004                                                                                                                                                           |
| <b>62</b>             | 300 bp      | 1070 bp       | 7, 8, 13, 15, 18, 27, 35, 37, 38, 39, 40, 41,      | *0754, 0817, 0838, 130101-1304, 1306, 1308Q-1323, 1325, 1326, 15010101-150104, 150106-150108, 150301-1507, 1512, 1514, 1519,                                                                                                                                                                                                                                                                                                |

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|                        |                |            |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|----------------|------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        |                |            | 44, 45, 46,<br>47, 48, 49,<br>50, 52, 55,<br>57, 58, 62,<br>72, 76, 78 | 1520, 1524-152703, 1530, 1532-<br>1536, 1538-1540, 1542, 1543,<br>1545-1550, 1553, 1554, 1556-1558,<br>1560-1563, 1565, 1566, 1568-1571,<br>1573-1575, 1577-1579N, 1581-<br>1587, 1591, 1592, 1594N, 1596-<br>1598, 9501-9507, 9509-9511N,<br>9513, 9516-9518, 9522, 9523,<br>9525-9529, 9531, 9532, 9535-9538,<br>9540-9542, 9545-9547, 9550-9552,<br>9554-9560, 9563, 9564, 1812, 2701-<br>2721, 2724-2746, 2750-2752, 3510,<br>3513, 3516, 3528, 3563, 3569,<br>3580, 370101-3707, 3709-3714,<br>3803, 3804, 390201, 390202, 3908,<br>391301, 391302, 3922, 3923, 3949,<br>400101-4007, 4009-4016, 4018-<br>4024, 4026-4040, 4042-4067, 4070-<br>4098, 4101-4108, 4211, 44020101-<br>440205, 440208-4405, 4407-4411,<br>4413-4467, 4469, 4501-4509,<br>47010101-4705, 480101-4805,<br>4807-4815, 4817-4819, 490101-<br>4905, 5001, 5002, 5004, 520101-<br>5214, 5317, 5518, 5534, 7805, 7806 |
| <b>63</b>              | 160, 215<br>bp | 1070<br>bp | 15, 37, 44,<br>54                                                      | *150104, 370104, 4094, 44020101-<br>440205, 440208, 4406, 4408, 4409,<br>4411, 4412, 4416, 4419N-4424,<br>4427, 4433, 4434, 4441, 4444,<br>4448, 4449, 4452N, 4453, 4455,<br>4459, 4463, 4466, 4467, 5401-5419,<br>8301                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>64</b>              | 180, 210<br>bp | 1070<br>bp | 7, 13, 15,<br>18, 35, 39,<br>40, 45, 54,<br>55, 56, 59,<br>78          | *0765, 1306, 1542, 1586, 1804,<br>3560, 3917, 4058, 4508, 4618,<br>5401, 5402, 5405N, 5407, 5408N,<br>5410, 5412, 5413, 5416-5419,<br>550101-5503, 5505, 5507, 5510-<br>5512, 5515, 5516, 5518, 5519,<br>5521, 5525, 5526, 5529-5531,<br>5533-5535, 560501, 5606, 5610,<br>5623, 5901, 5905, 7801, 780202,<br>7803,<br><b>Cw*150204</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>65<sup>15</sup></b> | 180 bp         | 1070<br>bp | 13, 15,<br>40, 44, 45,<br>46, 49, 50,<br>51, 54, 56                    | *1303, 1573, 4071, 4410, 4415,<br>4418, 4501, 4504-4507, 4611,<br>490101-4903, 5001, 5002, 5004,<br>5115, 5162, 5403, 5601, 5602,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                          |             |               |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-------------|---------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |             |               |                                                    | 5604, 5607, 5608, 5613, 5614, 5616, 5617, 5620, 5624, 5904, 8201, 8202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>66<sup>6,11</sup></b> | 90, 240 bp  | <b>800 bp</b> | 55, 57                                             | *5514, 570101-5715, 5717-5719                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>67<sup>6</sup></b>    | 90 bp       | 1070 bp       | 13, 15, 39, 40, 56, 58                             | *1311, 1573, 3917, 4048, 4071, 5162, 5602, 5604, 5610, 580101-5802, 5804-5821, <b>Cw*0206<sup>w</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>68<sup>6,8</sup></b>  | 95 bp       | 1070 bp       | 7, 8, 18, 35, 37, 38, 39, 44, 51, 52, 53, 78       | *0765 <sup>w</sup> , 0832, 180101-1811, 1813-1815, 1817N-1833, 1835, 350101-350902, 3511, 3512, 351401-3515, 3517, 3518, 352001-3524, 3527, 3529-3545, 3548, 3550-3562, 3564-356802, 3570-3572, 3574, 3575, 3576 <sup>w</sup> , 3577-3579, 3581-3595, 3597, 3599, 3708, 3806, 3807, 391901, 391902, 4406, 510101-512402, 5126-5146, 5148-5165, 530101-5316, 5318, 5606 <sup>w</sup> , 7801-7804                                                                                                                                                                                                                                                       |
| <b>69<sup>6</sup></b>    | 115, 150 bp | 1070 bp       | 15, 18, 27, 35, 39, 46, 54, 55, 56, 62, 73, 75, 76 | *15010101-150104, 150106-150108, 1504, 1507, 1508, 151101-1512, 1514, 1515, 1519, 1524, 1526N-1528, 1530, 1532, 1534, 1535, 1538, 1543, 1545, 1546, 1550, 1553, 1554, 1556-1558, 1560, 1563, 1566, 1568, 1570, 1571, 1573, 1575-1577, 1579N, 1581, 1582, 1585, 1587, 1592, 1594N, 1596, 1597, 9501, 9502, 9504, 9505, 9509-9511N, 9513, 9517, 9518, 9520, 9522, 9525, 9526, 9528, 9529, 9535, 9537, 9540, 9542-9549N, 9552, 9554, 9557, 9559, 9560, 9563, 9564, 1819, 2725, 351401, 351402, 3543, 3544, 3562, 3567, 3579, 3586, 3918, 3936, 460101-4602, 4604, 4605, 4607N, 4609, 4610, 4612, 4614-4617, 5161, 5406, 5521, 5603, 7301, <b>Cw*0620</b> |
| <b>70<sup>16</sup></b>   | 360 bp      | 1070 bp       | Bw4                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>71</b>                | 350 bp      | 1070 bp       | Bw6                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>72<sup>11</sup></b>   | 290 bp      | <b>800 bp</b> | 7, 8, 35, 37, 40, 41,                              | *070201-070207, 070209-0706, 0708-071802, 0720-0732, 0734-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                   |                                                                                                                                                                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 42, 48, 53,<br>81 | 0739, 0741-0752, 0754-0759, 0761-0772, 0775, 0776, 080101-0808N, 0810, 0811, 0813-0815, 0817-0838, 0840, 3566, 3587, 3707, 4015, 4016, 4030-4032, 4034, 4045, 4059, 4080, 4098, 410201, 4104, 4201, 4202, 420501-4207, 4209-4212, 480101, 480102, 4805-4812, 4814-4819, 5315, 8101-8104N |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B low resolution SSP typings. When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

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 two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B low resolution typing.

In addition, wells number 29, 30, 34, 41, 44, 45, 54, 59, 66 and 72 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>The serological reactivity of all HLA-B alleles is not known. In this table we use the information in the HLA Dictionary 2004 on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site and the information available at the [www.worldmarrow.org](http://www.worldmarrow.org) web site and have also inferred the serological grouping from the naming of the sequence-defined allele.

<sup>4</sup>Nucleotide sequence information is available for only exons 2 and 3 of many HLA Class I alleles and for only exon 2 of many HLA Class II alleles and not for other exons or for the introns of these alleles. We assume that unknown sequences in these exons and in the introns are conserved within loci and within allelic groups.

The B\*0826 and the B\*4207 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*1408 and the B\*3925N, B\*3930, B\*3932 to 3934, 3947 and 3950 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*1829 and the B\*3532, B\*3537, B\*3553N, B\*3564, B\*356801-356802 and 3599 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*5504, B\*5508, B\*5513, B\*5527 and the B\*5615, B\*5619N and B\*5622 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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The B\*5523, B\*5532 and the B\*5618 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

<sup>5</sup>Primer mix 25 will amplify the Cw\*0223 allele, primer mix 27 will amplify the Cw\*0305, Cw\*0325 and Cw\*0327 alleles, primer mix 32 will amplify the Cw\*0746 allele, primer mix 64 will amplify the Cw\*150204 allele, primer mix 67 will weakly amplify the Cw\*0206 allele and primer mix 69 will amplify the Cw\*0620 allele.

<sup>6</sup>Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

<sup>7</sup>Primer mix 28 may yield less specific PCR product than the other HLA-B low resolution primer mixes in B\*40, B\*41, B\*45, B\*49 and B\*50 alleles.

<sup>8</sup>Primer mixes 29, 30, and 68 may yield less specific PCR product than the other HLA-B low resolution primer mixes.

<sup>9</sup>Primer mixes 33 and 34 have a higher tendency than other primer mixes to give rise to nonspecific amplifications.

<sup>10</sup>In primer mix 34, the positive control band may be weaker than for other HLA-B low primer mixes.

<sup>11</sup>Primer mixes 66 and 72 may give rise to a primer oligomer artifact.

<sup>12</sup>The B\*57 and B\*58 alleles might be faintly amplified by primer mix 33.

<sup>13</sup>The Cw\*1701 to Cw\*1704 alleles might be faintly amplified by primer mix 49.

<sup>14</sup>Primer mix 53 might generate a false band of about 500 base pairs. This band should be disregarded when interpreting HLA-B low resolution typings.

<sup>15</sup>The Cw\*0312 allele might be faintly amplified by primer mix 65.

<sup>16</sup>The Bw4-associated HLA-A specificities A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 70.

‘w’, might be weakly amplified.

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

## SPECIFICITY TABLE

Specificities and sizes of the PCR products of the 23 primer mixes used for DR low resolution SSP typing

| Primer Mix              | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | DR serology <sup>3</sup> | Amplified HLA-DRB <sup>4</sup> alleles                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|----------------------------------------|-----------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>73<sup>7</sup></b>   | 205 bp                                 | <b>515 bp</b>                     | 1                        | *010101-010205, 0104-0122                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>74</b>               | 200 bp                                 | 430 bp                            | 103                      | *0103                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>75<sup>6</sup></b>   | 215, 260 bp                            | 430 bp                            | 15                       | *15010101-1533                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>76</b>               | 210 bp                                 | 430 bp                            | 16                       | *160101-160502, 1607-1613N                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>77<sup>5,6</sup></b> | 120, 220 bp                            | 430 bp                            | 3, 17, 18, 11            | *03010101-0343, 1107, 1153, 1525                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>78<sup>5,6</sup></b> | 80, 210 bp                             | 430 bp                            | 3, 17, 11, 13, 14        | *03010101-030106, 0304-0306, 0308-0316, 0318-0320, 0322, 0323, 0325, 0326, 0328, 0330, 0331, 0333, 0334, 0336, 0337, 0343, 110201-1103, 111101, 111102, 111401, 111402, 1116, 1120, 1121, 1136, 1140, 1141, 1148, 1159, 1163, 116501, 116502, 1168, 1170, 1173, 130101-1304, 1308, 1310, 1315-1317, 1319, 1320, 1322-1324, 1327-1329, 1331-1341, 1343, 1345, 1348, 1351-1354, 1357, 1359, 1361, 1363-1366, 1368-1376, 1378-1381, 1383-1385, 1387, 1388, 1416, 1419, 1421, 1482 |
| <b>79<sup>5,6</sup></b> | 85, 210 bp                             | 430 bp                            | 3, 18, 11, 13, 14        | *030201-0303, 0327, 0329, 0338, 111301 <sup>w</sup> , 111302 <sup>w</sup> , 1126, 1134, 1315, 1319, 1326, 1344, 1353, 1357, 1385, 1386, 1402-140302, 1406, 1409, 1412, 1413, 1417-1421, 1424, 1427, 1429, 1430, 143201 <sup>w</sup> , 143202 <sup>w</sup> , 1433, 1440, 1441, 1447-1449, 1451, 1463, 1465 <sup>w</sup> , 1467, 1477, 1478, 1480, 1481, 1483, 1485                                                                                                              |
| <b>80<sup>5,6</sup></b> | 100, 175 bp                            | 430 bp                            | 4                        | *040101-0478                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>81<sup>6</sup></b>   | 205, 230 bp                            | 430 bp                            | 7, 13, 14                | *07010101-070103, 0703-0717, 1317,                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                           |                     |               |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------|---------------------|---------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>82<sup>6</sup></b>     | 170, 215,<br>250 bp | <b>515 bp</b> | 8,<br>11, 12, 14        | 1450<br>*080101-0819, 0821-0836,<br>1167,<br>1204, 1216,<br>1411, 1415, 1468                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>83<sup>5,6,8</sup></b> | 85, 135,<br>180 bp  | 430 bp        | 3, 9, 11                | *0308, 090102-0908,<br>1107, 1153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>84</b>                 | 205 bp              | 430 bp        | 10                      | *100101-1003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>85<sup>5,6</sup></b>   | 100, 170<br>bp      | 430 bp        | 11,<br>3, 8             | *0308, 0831,<br>110101-1170, 1172, 1173                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>86<sup>5,6</sup></b>   | 85, 105 bp          | 430 bp        | 12,<br>8                | *0832,<br>120101-120204, 120302-1219                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>87</b>                 | 210 bp              | 430 bp        | 13,<br>8, 11, 14        | *0820,<br>110101-110404, 110601, 110602,<br>110801-111202, 111401-1116,<br>1118-1121, 1123-1125, 112701-<br>1133, 1135-1151, 115401, 115402,<br>1156-1166, 1168, 1170, 1172, 1173,<br>130101-1308, 1310-1316, 1318-<br>1343, 1345-1385, 1387, 1388,<br>140301, 140302, 1412, 1416, 1419,<br>1421, 1422, 1425, 1427, 1440,<br>1453, 1463, 1467, 1469, 1474,<br>1477, 1478, 1484, 1485                                                                                                                                                                                                                                    |
| <b>88<sup>6</sup></b>     | 195, 210<br>bp      | 430 bp        | 13,<br>8, 11, 12,<br>14 | *080101-080203, 080401-0809,<br>0811, 0816, 0817, 0820-0822, 0824,<br>0826, 0828, 0831,<br>110101-110602, 1109-111202,<br>111401-1116, 1120, 1121, 1123-<br>1125, 112701-1130, 1132, 1133,<br>1135-1141, 1143, 1144, 1146-1151,<br>115401-1156, 1158-1163, 116501-<br>1170, 1172,<br>120201-120204, 1213, 1215, 1216,<br>1218, 1219,<br>130101-130201, 130203, 1304-<br>130502, 130701-1309, 131101,<br>131102, 131401-1324, 1326-1329,<br>1331, 1332, 1334-1336, 1338-1343,<br>1345-1355, 1357, 1359, 1361-1365,<br>1367-1376, 1378-1380, 1383, 1384,<br>1387, 1415, 1416, 1422, 1424,<br>1425, 1427, 1437, 1453, 1473 |
| <b>89</b>                 | 175 bp              | 430 bp        | 3, 8, 13, 14            | *03010101-0307, 0309, 0311-0341,<br>0343, 0820,<br>130101-1316, 1318-1342, 1344,<br>1346-1366, 1368-1388,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                           |                  |        |                          |                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|------------------|--------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           |                  |        |                          | 1402-140302, 140501-1406, 1409, 1412-1414, 1417-1421, 142301, 1424, 1427, 1429, 1430, 1433, 1436, 1437, 1440-1445, 1447, 1448, 1451, 1456, 1459, 1463-1465, 1467, 1477, 1478, 1480, 1481, 1483-1485                                                                                                                                                                                  |
| <b>90<sup>5-7</sup></b>   | 100, 140 bp      | 430 bp | 14, 4, 8, 13             | *0462, 0469, 0473, 0808, 1169, 1345, 140101, 140102, 1404, 140701, 140702, 1410, 1416, 1422, 1425, 1426, 1428, 1431-143202, 1435, 1437-1439, 1449, 1450, 1453-1455, 1457, 1458, 1460-1462, 1468-1471, 1473-1476, 1479, 1482, 1486                                                                                                                                                    |
| <b>91<sup>5-7,9</sup></b> | 110, 135, 170 bp | 430 bp | 14, 3, 9, 11, 12, 13, 15 | *0310, 090102-090202, 0904-0908, 111301, 111302, 1117, 1152, 1343, 140101-1402, 1404-1411, 1413, 1414, 1416-1418, 1420, 1422-142302, 1426, 1428-1436, 1438, 1439, 1441, 1443-1452, 1454-1457, 1459-1462, 1464, 1465, 1468, 1470-1476, 1479-1483, 1486, 1527                                                                                                                          |
| <b>92<sup>5-7</sup></b>   | 110, 175, 225 bp | 430 bp | 14, 3, 8, 11, 13, 15, 16 | *0310, 0809, 0820, 0821, 0832, 0835, 111301, 111302, 1117, 1123, 1125, 1131, 1145, 1152, 1155, 1164, 1313, 1318, 1343, 1345, 1347, 1355, 140101-140103, 140301-140503, 140701-1408, 1410-1412, 1414-1416, 1418, 1422-142302, 1425-1428, 1431-143202, 1434-1436, 1438-1440, 1442-1445, 1449, 1450, 1453-1465, 1467-1479, 1481, 1482, 1484-1486, 1521 <sup>w</sup> , 1604 <sup>w</sup> |
| <b>93<sup>6</sup></b>     | 165, 240 bp      | 430 bp | 52                       | DRB3*01010201-0113, DRB3*0201-0224, DRB3*030101-0303                                                                                                                                                                                                                                                                                                                                 |
| <b>94<sup>10</sup></b>    | 215 bp           | 430 bp | 53                       | DRB4*01010101-0107                                                                                                                                                                                                                                                                                                                                                                   |
| <b>95</b>                 | 175 bp           | 430 bp | 51                       | DRB5*010101-0113, DRB5*0202-0205                                                                                                                                                                                                                                                                                                                                                     |

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Lot-specific information

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<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 DR low resolution SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

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, e.g. the primers in wells 75, 80, 90, 91 and 92.

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 two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 73 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DR low resolution typing.

In addition, well number 82 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>The serological reactivity of all DRB alleles is not known. In this table we use the information in the HLA Dictionary 2004 on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site and the information available at the [www.worldmarrow.org](http://www.worldmarrow.org) web site and have also inferred the serological grouping from the naming of the sequence-defined allele.

<sup>4</sup>For several DRB alleles only partial second exon nucleotide sequences are available. In these instances it is not known whether some of the primers of the SSP set are completely matched with the target sequences or not. We assume that unknown sequences in the first hyperpolymorphic region of the second exon of DRB alleles are conserved within allelic groups and that unknown sequences of codons 87 to 92 are identical with the DRB1\*0101 consensus sequence.

Nucleotide sequence information is available for only exons 2 and 3 of many HLA Class I alleles and for only exon 2 of many HLA Class II alleles and not for other exons or for the introns of these alleles. We assume that unknown sequences in these exons and in the introns are conserved within loci and within allelic groups.

The DRB1\*0809, DRB1\*0821 and DRB4\*1415 alleles yield identical amplification patterns except for the specific PCR product yielded by the DRB3 gene in linkage disequilibrium with the DRB1\*1415 allele.

The DRB1\*0820, DRB1\*1318, DRB1\*1347 and DRB1\*1355 alleles yield identical amplification patterns except for the specific PCR product yielded by the DRB3 gene in linkage disequilibrium with the DRB1\*1318, DRB1\*1347 and DRB1\*1355 alleles.

The DRB1\*0831 and DRB1\*1167 alleles yield identical amplification patterns except for the specific PCR product yielded by the DRB3 gene in linkage disequilibrium with the DRB1\*1167 allele.

<sup>5</sup>Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

<sup>6</sup>Individual alleles can give rise to multiple differently sized specific PCR fragments in these primer mixes.

<sup>7</sup>Primer mixes 73, 90, 91 and 92 may give rise to primer oligomer formation.

<sup>8</sup>Primer mix 83 may have a higher tendency than other primer mixes to give rise to nonspecific amplifications.

<sup>9</sup>Primer mix 91 has a tendency of primer oligomer formation and also has an intense primer cloud due to the high number of primers present in the primer mix.

<sup>10</sup>The DRB4\*01030102N allele is amplified by the primer pair in well No. 94, whereas the DRB4\*0201N and DRB4\*0301N null alleles are not amplified by this primer pair.

‘w’, might be weakly amplified.

| INTERPRETATION TABLE                                                                      |                  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|-------------------------------------------------------------------------------------------|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| HLA-A low resolution SSP typing                                                           |                  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| Amplification patterns of the A*0101 to A*8001 alleles                                    |                  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                                                                                           |                  | Well <sup>6</sup>   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                                                                                           |                  | 1                   | 2                   | 3                   | 4                   | 5                   | 6                   | 7                   | 8                   | 9                   | 10                  | 11                  | 12                  | 13                  | 14                  | 15                  | 16                  | 17                  | 18                  | 19                  | 20                  | 21                  | 22                  | 23                  | 24                  |
| Length of spec.                                                                           |                  | 120                 | 135                 | 205                 | 190                 | 160                 | 165                 | 175                 | 165                 | 75                  | 85                  | 80                  | 185                 | 175                 | 200                 | 90                  | 370                 | 150                 | 200                 | 160                 | 155                 | 240                 | 85                  | 75                  | 360                 |
| PCR product(s)                                                                            |                  | 145                 | 200                 | 235                 |                     | 535                 | 200                 | 200                 | 200                 |                     |                     | 175                 |                     | 225                 | 240                 | 135                 | 395                 | 180                 |                     | 200                 | 200                 | 375                 | 240                 | 160                 |                     |
|                                                                                           |                  |                     | 255                 |                     |                     |                     |                     |                     |                     |                     |                     | 500                 |                     |                     |                     | 205                 |                     |                     |                     |                     | 240                 |                     |                     |                     |                     |
| Length of int.                                                                            |                  | 800                 | 1070                | 1070                | 800                 | 800                 | 800                 | 1070                | 800                 | 800                 | 1070                | 1070                | 800                 | 1070                | 1070                | 1070                | 1070                | 1070                | 1070                | 800                 | 800                 | 800                 | 800                 | 800                 | 1070                |
| pos. control <sup>1</sup>                                                                 |                  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 5'-primer(s) <sup>2</sup>                                                                 |                  | 98                  | 78                  | 363                 | 98                  | 144                 | 106                 | 98                  | 98                  | 266                 | 257                 | 302                 | 103                 | 98                  | 98                  | 203                 | 41                  | 180                 | 98                  | 180                 | 78                  | 28                  | 78                  | 176                 | 341                 |
|                                                                                           |                  | 5'-CTT <sup>3</sup> | 5'-TCT <sup>3</sup> | 5'-ATA <sup>3</sup> | 5'-CTA <sup>3</sup> | 5'-GCC <sup>3</sup> | 5'-CCA <sup>3</sup> | 5'-CTC <sup>3</sup> | 5'-CTA <sup>3</sup> | 5'-ACg <sup>3</sup> | 5'-Cgg <sup>3</sup> | 5'-ggA <sup>3</sup> | 5'-CCT <sup>3</sup> | 5'-CTT <sup>3</sup> | 5'-CAC <sup>3</sup> | 5'-gAA <sup>3</sup> | 5'-CTT <sup>3</sup> | 5'-TTT <sup>3</sup> | 5'-CAC <sup>3</sup> | 5'-TTT <sup>3</sup> | 5'-TCT <sup>3</sup> | 5'-TCg <sup>3</sup> | 5'-TCT <sup>3</sup> | 5'-gCA <sup>3</sup> | 5'-ggA <sup>3</sup> |
|                                                                                           |                  | 123                 | 106                 |                     | 413                 | 317                 | 176                 | 368                 | 102                 | 266                 | 261                 | 385                 | 423                 | 423                 |                     | 362                 |                     | 418                 |                     |                     | 106                 | 261                 | 527                 | 261                 |                     |
|                                                                                           |                  | 5'-AgT <sup>3</sup> | 5'-CCA <sup>3</sup> |                     | 5'-CCg <sup>3</sup> | 5'-gCT <sup>3</sup> | 5'-gCA <sup>3</sup> | 5'-gTT <sup>3</sup> | 5'-ACA <sup>3</sup> | 5'-ACg <sup>3</sup> | 5'-AAC <sup>3</sup> | 5'-ggC <sup>3</sup> | 5'-gCT <sup>3</sup> | 5'-gCT <sup>3</sup> |                     | 5'-ggT <sup>3</sup> |                     | 5'-AgC <sup>3</sup> |                     |                     | 5'-CCA <sup>3</sup> | 5'-AAC <sup>3</sup> | 5'-TgC <sup>3</sup> | 5'-AAC <sup>3</sup> |                     |
|                                                                                           |                  |                     | 144                 |                     |                     |                     | 368                 |                     | 413                 |                     |                     |                     |                     |                     |                     | 363                 |                     |                     |                     |                     | 391                 |                     |                     |                     |                     |
|                                                                                           |                  |                     | 5'-gCA <sup>3</sup> |                     |                     |                     | 5'-gTT <sup>3</sup> |                     | 5'-CCg <sup>3</sup> |                     |                     |                     |                     |                     |                     | 5'-ATA <sup>3</sup> |                     |                     |                     |                     | 5'-ACg <sup>3</sup> |                     |                     |                     |                     |
|                                                                                           |                  |                     | 144                 |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 391                 |                     |                     |                     |                     |
|                                                                                           |                  |                     | 5'-TCA <sup>3</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 5'-ACg <sup>3</sup> |                     |                     |                     |                     |
|                                                                                           |                  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 3'-primer(s) <sup>3</sup>                                                                 |                  | 203                 | 240                 | 527                 | 256                 | 265                 | 256                 | 259                 | 259                 | 302                 | 299                 | 341                 | 257                 | 282                 | 257                 | 299                 | 238                 | 317                 | 256                 | 299                 | 265                 | 97                  | 265                 | 292                 | 418                 |
|                                                                                           |                  | 5'-TCT <sup>3</sup> | 5'-ggA <sup>3</sup> | 5'-CCA <sup>3</sup> | 5'-CTg <sup>3</sup> | 5'-CCC <sup>3</sup> | 5'-CCC <sup>3</sup> | 5'-gTT <sup>3</sup> | 5'-gTT <sup>3</sup> | 5'-ggC <sup>3</sup> | 5'-TCg <sup>3</sup> | 5'-CgT <sup>3</sup> | 5'-gCA <sup>3</sup> | 5'-gAC <sup>3</sup> | 5'-gCA <sup>3</sup> | 5'-CCA <sup>3</sup> | 5'-CCT <sup>3</sup> | 5'-ggA <sup>3</sup> | 5'-CCC <sup>3</sup> | 5'-CCA <sup>3</sup> | 5'-CCC <sup>3</sup> | 5'-ggT <sup>3</sup> | 5'-CCC <sup>3</sup> | 5'-gTg <sup>3</sup> | 5'-gTC <sup>3</sup> |
|                                                                                           |                  |                     | 292                 | 527                 | 559                 | 570                 | 292                 | 502                 | 538                 |                     |                     | 521                 | 559                 | 282                 | 299                 | 411                 | 265                 | 527                 | 256                 | 299                 | 282                 | 355                 | 282                 | 292                 |                     |
|                                                                                           |                  |                     | 5'-gTg <sup>3</sup> | 5'-CCT <sup>3</sup> | 5'-CCg <sup>3</sup> | 5'-CCg <sup>3</sup> | 5'-gTT <sup>3</sup> | 5'-CTT <sup>3</sup> | 5'-CCA <sup>3</sup> |                     |                     | 5'-ggg <sup>3</sup> | 5'-CTC <sup>3</sup> | 5'-gAC <sup>3</sup> | 5'-TCg <sup>3</sup> | 5'-TCA <sup>3</sup> | 5'-CCC <sup>3</sup> | 5'-CCT <sup>3</sup> | 5'-CTC <sup>3</sup> | 5'-CCA <sup>3</sup> | 5'-gAC <sup>3</sup> | 5'-gAC <sup>3</sup> | 5'-gAC <sup>3</sup> |                     |                     |
|                                                                                           |                  |                     |                     | 555                 |                     |                     | 502                 | 539                 |                     |                     |                     |                     | 559                 | 559                 |                     | 526                 |                     |                     | 259                 | 341                 | 282                 |                     | 282                 | 299                 |                     |
|                                                                                           |                  |                     |                     | 5'-gCA <sup>3</sup> |                     |                     | 5'-CTg <sup>3</sup> | 5'-TCT <sup>3</sup> |                     |                     |                     |                     | 5'-CgT <sup>3</sup> | 5'-CCg <sup>3</sup> |                     | 5'-CCA <sup>3</sup> |                     |                     | 5'-gTT <sup>3</sup> | 5'-CgT <sup>3</sup> | 5'-gAC <sup>3</sup> |                     | 5'-gAC <sup>3</sup> | 5'-TCT <sup>3</sup> |                     |
|                                                                                           |                  |                     |                     | 555                 |                     | 538                 |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 5'-gTT <sup>3</sup> | 5'-CgT <sup>3</sup> | 5'-gAC <sup>3</sup> |                     | 5'-gAC <sup>3</sup> | 5'-TCT <sup>3</sup> |                     |
|                                                                                           |                  |                     | 5'-CCA <sup>3</sup> |                     | 5'-CAg <sup>3</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 506                 |                     | 570                 |                     |                     |
|                                                                                           |                  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 5'-TgT <sup>3</sup> | 5'-CAC <sup>3</sup> |                     |                     |                     |
| Well No.                                                                                  |                  | 1                   | 2                   | 3                   | 4                   | 5                   | 6                   | 7                   | 8                   | 9                   | 10                  | 11                  | 12                  | 13                  | 14                  | 15                  | 16                  | 17                  | 18                  | 19                  | 20                  | 21                  | 22                  | 23                  | 24                  |
| HLA-A allele <sup>4</sup>                                                                 | ser <sup>5</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| *01010101-0104N, 0106, 0109-0111N, 0116N-0118N, 0120, 0122N-0127N, 0129, 0131N-0135, 0137 | A1, null         | 1                   |                     |                     | 4                   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 24                  |
| *0107                                                                                     | -                | 1                   |                     |                     | 4                   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| *0108, 0114, 0115N                                                                        | 1                | 1                   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 24                  |
| *0112, 0119                                                                               | -                | 1                   |                     | 3                   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 24                  |
| Well No.                                                                                  |                  | 1                   | 2                   | 3                   | 4                   | 5                   | 6                   | 7                   | 8                   | 9                   | 10                  | 11                  | 12                  | 13                  | 14                  | 15                  | 16                  | 17                  | 18                  | 19                  | 20                  | 21                  | 22                  | 23                  | 24                  |

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| Well No.                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *0113                                                                                                                                                                                                                                                                                                                                                                                                          | -                    | 1 |   |   | 4 |   |   |   |   |   |    | 11 |    | 13 |    | 15 |    |    |    |    |    |    |    |    | 24 |
| *0121                                                                                                                                                                                                                                                                                                                                                                                                          | -                    | 1 |   | 3 | 4 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 24 |
| *0128                                                                                                                                                                                                                                                                                                                                                                                                          | -                    | 1 |   |   | 4 |   |   |   |   |   |    | 11 |    |    |    | 15 |    |    |    |    |    |    |    |    | 24 |
| *0130                                                                                                                                                                                                                                                                                                                                                                                                          | -                    | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *02010101-020115,<br>020117-020119, 020121-<br>0209, 0211-0216, 0218-<br>022202, 0224-0233,<br>0236-0238, 0240-0245,<br>0247, 0249, 0251,<br>0253N, 0254, 0257-<br>0261, 0263-0269, 0271,<br>0272, 027401-0277,<br>0279-0292, 0294N,<br>0296, 0297, 0299, 9201,<br>9202, 9204-9209, 9211-<br>9213N, 9215, 9216,<br>9218-9221, 9223-9228,<br>9230-9234, 9236-9245,<br>9247-9255, 9257, 9270,<br>9271, 9277-9279 | A2,<br>A203,<br>null |   | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0210, 0239, 0250,<br>0252, 0273, 0293, 0295,<br>9210, 9214, 9217, 9256                                                                                                                                                                                                                                                                                                                                        | A210                 |   | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 20 |    |    |    |    |    |
| *021701, 021702                                                                                                                                                                                                                                                                                                                                                                                                | A2                   |   | 2 |   |   |   |   | w |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0234, 023501, 023503,<br>025601, 025602, 0262,<br>9203                                                                                                                                                                                                                                                                                                                                                        | -                    |   | 2 |   |   |   |   |   |   |   |    |    |    | 13 |    |    |    |    |    | 20 |    | 22 |    |    |    |
| *023502                                                                                                                                                                                                                                                                                                                                                                                                        | -                    |   |   |   |   |   |   |   |   |   |    |    |    | 13 |    |    |    |    |    | 20 |    | 22 |    |    |    |
| *0246, 0270                                                                                                                                                                                                                                                                                                                                                                                                    | -                    |   | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 20 |    | 22 |    |    |    |
| *0248, 9229                                                                                                                                                                                                                                                                                                                                                                                                    | -                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 20 |    | 22 |    |    |    |
| *0255                                                                                                                                                                                                                                                                                                                                                                                                          | -                    |   | 2 |   |   |   |   |   | 8 |   |    |    |    |    |    |    |    |    |    |    |    | 21 |    | 23 |    |
| *0278                                                                                                                                                                                                                                                                                                                                                                                                          | -                    |   | 2 |   | 4 |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 20 |    | 22 |    |    |    |
| *9222                                                                                                                                                                                                                                                                                                                                                                                                          | -                    |   |   |   |   | 6 |   |   |   |   |    |    |    |    |    |    |    |    |    | 20 |    |    |    |    |    |
| *9235                                                                                                                                                                                                                                                                                                                                                                                                          | -                    |   | 2 |   |   |   |   |   |   |   |    |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *9246                                                                                                                                                                                                                                                                                                                                                                                                          | -                    |   | 2 |   |   |   |   |   |   |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *9269                                                                                                                                                                                                                                                                                                                                                                                                          | -                    |   | 2 |   | 4 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *03010101-0307, 0309-<br>0311N, 0313-0317,<br>0319-0323, 0325-0329,<br>0331, 0333-0335, 0337-<br>0340, 0342, 0344-0347,<br>0351, 0355                                                                                                                                                                                                                                                                          | A3                   |   |   | 3 |   |   |   |   |   |   |    |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *0308, 0332, 0336N                                                                                                                                                                                                                                                                                                                                                                                             | -                    |   |   | 3 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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| Well No.                                                                                                                                                                   |           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *0312                                                                                                                                                                      | -         |   |   | 3 | 4 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0318, 2619 <sup>7</sup>                                                                                                                                                   | -         |   |   |   | 4 |   |   |   |   |   |    |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *0324, 0350                                                                                                                                                                | -         |   |   | 3 |   |   |   |   | 8 |   |    |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *0330                                                                                                                                                                      | -         |   |   | 3 |   | 5 |   |   |   |   |    |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *0341                                                                                                                                                                      | -         |   |   | 3 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 24 |
| *0343                                                                                                                                                                      | -         |   |   | 3 |   |   |   |   |   |   |    |    |    | 13 |    | 15 |    | 17 |    |    |    |    |    |    |    |
| *110101-1109, 1113-1117, 1119-112402, 1126, 1127, 1129-1140, 1142-1144                                                                                                     | A11       |   |   |   | 4 |   |   |   |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    | 24 |
| *1110                                                                                                                                                                      | -         |   |   |   | 4 |   |   |   | 8 |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    | 24 |
| *1111                                                                                                                                                                      | -         |   |   |   | 4 |   |   |   |   |   |    | 11 | 12 |    |    |    |    |    |    |    |    |    |    |    | 24 |
| *1112, 1118, 1141                                                                                                                                                          | -         |   |   |   | 4 |   |   |   |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1125                                                                                                                                                                      | -         |   |   | 3 | 4 |   |   |   |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    | 24 |
| *230101-2313, 2315-2321                                                                                                                                                    | A23       |   |   |   |   | 5 | 6 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *2314, 2405, 241302, 2424 <sup>8</sup>                                                                                                                                     | -         |   |   |   |   | 5 | 6 | 7 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *24020101-240217, 240220-2404, 2406-2411N, 241301, 2417, 2418, 2420-2423, 2425-2443, 2445N-2450, 2454-2456, 2458-2463, 2466-2481, 2483N-2488, 2490N, 2491, 2493, 2495-2499 | A24       |   |   |   |   | 5 |   | 7 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *2414, 2415, 2451-2453, 2457, 2464                                                                                                                                         | A24       |   |   |   | 5 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *2419, 2444                                                                                                                                                                | -         |   |   |   |   | 5 |   | 7 |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *2482                                                                                                                                                                      | -         |   |   |   |   | 5 |   | 7 |   |   |    |    |    |    |    |    |    |    |    |    | 21 |    |    |    |    |
| *2489                                                                                                                                                                      | -         |   |   |   |   |   |   | 7 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *2492                                                                                                                                                                      | -         |   |   | 3 |   | 5 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *2494                                                                                                                                                                      | -         |   |   |   |   | 5 |   |   |   |   |    |    |    |    |    |    |    |    |    |    | 20 |    |    |    |    |
| *250101-2504, 2507, 2508                                                                                                                                                   | A25       |   |   |   |   |   |   |   | 8 | 9 |    |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *2505                                                                                                                                                                      | -         |   |   |   |   |   |   |   | 8 | 9 |    |    |    | 13 |    |    |    |    |    |    | 20 |    |    |    |    |
| *2506                                                                                                                                                                      | -         |   |   |   |   |   |   |   | 8 | 9 |    |    | 12 |    |    |    |    |    |    |    |    |    |    |    |    |
| *260101-260108, 2608, 2610-2615, 2617, 2618, 2620, 2623-2629, 2632, 2633, 2635-2638, 2640                                                                                  | A26, null |   |   |   |   |   |   |   | 8 |   | 10 |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *2602                                                                                                                                                                      | A26       |   |   |   |   |   |   |   | 8 |   | 10 |    |    | w  |    |    |    |    |    |    |    |    |    |    |    |
| *2603, 2606, 2621                                                                                                                                                          | A26       |   |   |   |   |   |   |   | 8 |   |    | 11 |    | 13 |    |    |    |    |    |    |    |    |    |    | 23 |
| Well No.                                                                                                                                                                   |           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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| Well No.                                                |     | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---------------------------------------------------------|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *2604, 2634                                             | A26 |   |   |   |   |   |   |   | 8 |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *2605, 2630                                             | A26 |   |   |   |   |   |   |   | 8 |   |    |    |    | 13 |    |    |    |    |    |    |    |    |    | 23 |    |
| *260701, 260702                                         | A26 |   |   |   |   |   |   |   |   |   | 10 |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *2609                                                   | A26 |   |   |   |   |   |   |   | 8 |   | 10 |    | 12 |    |    |    |    |    |    |    |    |    |    |    |    |
| *2616                                                   | -   |   |   |   |   |   |   | 7 |   |   | 10 |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *2622                                                   | -   |   |   |   |   |   |   |   | 8 |   | 10 |    |    | 13 |    |    |    |    |    |    |    | 21 |    |    |    |
| *2631                                                   | -   |   |   |   |   |   |   |   | 8 |   |    |    |    | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *29010101-2906, 2908N-2912, 2915-2918                   | A29 |   |   |   |   |   |   |   |   |   |    |    |    |    | 14 |    |    |    |    |    |    |    |    |    |    |
| *2907                                                   | -   |   |   |   |   |   | 6 |   |   |   |    |    |    |    | 14 |    |    |    |    |    |    |    |    |    |    |
| *2913                                                   | -   |   |   |   |   |   |   |   |   |   |    |    |    |    | 14 |    |    | 17 |    |    |    |    |    |    |    |
| *2914                                                   | -   |   |   |   |   |   |   |   |   |   |    |    |    |    | 14 |    | 16 |    |    |    |    |    |    |    |    |
| *2919                                                   | -   |   |   |   |   |   |   |   |   |   |    |    |    |    | 14 |    |    |    | 19 |    |    |    |    |    |    |
| *300101-3004, 3006, 3007, 3009-3020, 3022-3028          | A30 |   |   |   |   |   |   |   |   |   |    |    |    |    |    | 15 |    |    |    |    |    |    |    |    |    |
| *3008                                                   | -   |   |   |   | 4 |   |   |   |   |   |    |    |    |    |    | 15 |    |    |    |    |    |    |    |    |    |
| *310102-3102, 3105-3107, 3109-3125                      | A31 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    | 16 |    |    |    |    |    |    |    |    |
| *3103                                                   | -   |   |   |   |   |   |   |   |   |   |    | 11 | 12 |    |    |    | 16 |    |    |    |    |    |    |    |    |
| *3104                                                   | A31 |   |   |   |   |   |   |   |   |   |    |    | 12 |    |    |    | 16 |    |    |    |    |    |    |    |    |
| *3108                                                   | -   |   |   |   |   | 5 |   |   |   |   |    |    |    |    |    |    | 16 |    |    |    |    |    |    |    |    |
| *320101-3202, 3206-3212, 3214, 3216-3219N               | A32 |   |   |   |   |   |   |   |   | 9 |    |    |    |    |    |    |    | 17 |    |    |    |    |    |    |    |
| *3203                                                   | -   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    | 17 |    |    |    |    |    |    |    |
| *3204                                                   | A3  |   |   | 3 |   |   |   |   |   | 9 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *3205                                                   | -   |   |   |   |   | 5 |   |   |   |   |    |    |    |    |    |    | 16 | 17 |    |    |    |    |    |    |    |
| *3213                                                   | -   |   |   |   |   | 5 |   |   |   | 9 |    |    |    |    |    |    |    | 17 |    |    |    |    |    |    |    |
| *3215                                                   | -   |   |   |   |   |   |   |   | 8 | 9 |    |    |    |    |    |    |    | 17 |    |    |    |    |    |    |    |
| *330101, 330301-3312, 3314-3318, 3320, 3321, 3323, 3325 | A33 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    | 18 |    |    |    |    |    |    |    |
| *3313                                                   | -   |   |   |   |   |   |   |   |   |   | 10 |    |    |    | 14 |    |    | 18 |    |    |    |    |    |    | 24 |
| *3319                                                   | -   |   |   |   |   |   |   | 7 |   |   |    |    |    |    |    |    |    | 18 |    |    |    |    |    |    |    |
| *3322                                                   | -   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    | 18 |    |    | 21 |    |    |    |    |
| *3324                                                   | -   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    | 18 |    |    |    |    | 23 |    |    |
| *340101, 340102, 3405, 3406                             | A34 |   |   |   |   |   |   |   | 8 |   |    | 11 | 12 |    |    |    |    |    |    |    |    |    |    |    |    |
| *3402-3404, 3407                                        | -   |   |   | 3 |   |   |   |   | 8 |   |    | 11 | 12 |    |    |    |    |    |    |    |    |    |    |    |    |
| *3408                                                   | -   |   |   | 3 |   |   |   |   | 8 |   |    | 11 | 12 | 13 |    |    |    |    |    |    |    |    |    |    |    |
| *3601, 3603                                             | A36 | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 |    | 24 |    |
| *3602                                                   | -   | 1 |   | 3 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 |    | 24 |    |
| *3604                                                   | -   | 1 |   |   | 4 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 |    | 24 |    |
| Well No.                                                |     | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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| Well No.                                                            |                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |  |
|---------------------------------------------------------------------|------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| *4301                                                               | A43              |   |   |   |   |   |   |   |   |   |    |    | 12 | 13 |    |    |    |    |    |    |    |    |    |    |    |  |
| *6601, 6604-6608, 6610                                              | A66              |   |   |   |   |   |   |   | 8 |   |    | 11 |    | 13 |    |    |    |    |    |    |    |    |    |    |    |  |
| *6602, 6603                                                         | A66              |   |   |   |   |   |   |   | 8 |   |    |    | 12 |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *6609                                                               | -                |   |   |   |   |   |   |   | 8 |   |    | 11 |    | 13 |    |    |    |    |    |    |    | 21 |    |    |    |  |
| *680101-6804, 6806-6814, 6816-6819, 6821-6828, 6830-6844, 6846-6848 | A68              |   |   |   |   |   |   |   | 8 |   |    |    |    |    |    |    |    |    |    |    | 20 |    |    |    |    |  |
| *6805, 6815, 6820                                                   | -                |   |   |   |   |   |   |   | 8 |   |    |    |    |    |    |    |    |    |    |    | 20 |    |    | 23 |    |  |
| *6829                                                               | -                |   |   |   |   |   |   |   | 8 |   |    |    |    |    |    |    |    |    | 18 |    | 20 | 21 |    |    |    |  |
| *6845                                                               | -                |   |   |   |   |   |   | 7 | 8 |   |    |    |    |    |    |    |    |    |    |    | 20 |    |    |    |    |  |
| *6901                                                               | A69              |   |   |   |   |   |   |   | 8 |   |    |    |    |    |    |    |    |    |    |    |    | 21 |    |    |    |  |
| *7401-7409, 7411, 7412N, 7414N                                      | A74              |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 19 |    |    |    |    |    |  |
| *7410                                                               | -                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 19 |    |    |    |    | 24 |  |
| *7413                                                               | -                |   |   |   |   |   |   |   |   |   |    |    |    | 13 |    |    |    |    |    | 19 |    |    |    |    |    |  |
| *8001                                                               | A80              |   |   |   |   |   | 6 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    | 23 | 24 |  |
| HLA-A allele <sup>4</sup>                                           | ser <sup>5</sup> |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Well No.                                                            |                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |  |
| B*1827                                                              |                  |   |   |   |   |   | 6 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Well No.                                                            |                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |  |

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<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-A low resolution SSP typing.

In addition, wells number 4, 5, 6, 8, 9, 12 and 19 to 23 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

<sup>2</sup>The nucleotide position, in the 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> exon, 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, in the 2<sup>nd</sup>, or 3<sup>rd</sup> exon, 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.

<sup>4</sup>The sequence of the A\*0105N has been shown to be identical to A\*0104N.

The A\*020116 allele has been renamed to A\*9234.

The A\*020120 has been renamed to A\*020118.

The sequence of the A\*0223 allele has been shown to be identical to A\*0222.

The sequence of the A\*0298 allele has been shown to be identical to A\*0296.

The A\*1128 allele has been renamed to A\*111502.

The sequence of the A\*2401 allele has been shown to be in error.

The sequence of the A\*2412 allele has been shown to be identical to A\*2408.

The A\*2416 allele has been renamed to A\*3108.

The A\*2465 allele has been renamed to A\*241302.

The sequence of the A\*3005 allele has been shown to be identical to A\*3004.

The A\*3021 allele has been renamed to A\*301102.

The sequence of the A\*31011 allele has been shown to be identical to A\*310102.

The sequence of the A\*3302 allele has been shown to be identical to A\*3303.

<sup>5</sup>The serological reactivity of all HLA-A alleles is not known. In this table we use the information in the HLA Dictionary 2004 on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site and the information available at the [www.worldmarrow.org](http://www.worldmarrow.org) web site and have also inferred the serological grouping from the naming of the sequence-defined allele.

<sup>6</sup>The primer pairs in vials 2 and 11 will in most samples give rise to multiple specific PCR fragments.

<sup>3</sup>The A\*36 alleles will give rise to identical amplification patterns as some A\*01 alleles. These alleles can be separated by the A\*01 and A\*36 high resolution SSP primer sets.

The A\*0308, 0332, 0336N, 0341 and A\*2492 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

The A\*0318 and A\*2619 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

The A\*2314, A\*2405, A\*241302 and A\*2424 alleles will give rise to identical amplification patterns. These four alleles can be separated by the respective high resolution SSP primer sets.

<sup>7</sup>The A\*0318 and A\*2619 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

<sup>8</sup>The A\*2314, A\*2405, A\*241302 and A\*2424 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

'w', may be weakly amplified.

| INTERPRETATION TABLE                                                |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| HLA-B low resolution SSP                                            |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Amplification patterns of the B*0702 to B*8301 alleles <sup>6</sup> |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  | Well                 |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  | 25                   | 26                   | 27                   | 28                   | 29                   | 30                   | 31                   | 32                   | 33                   | 34                   | 35                   | 36                   | 37                   | 38                   | 39                   | 40                   | 41                   | 42                   | 43                   | 44                   | 45                   | 46                   | 47                   | 48                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Length of spec. PCR product(s)                                      |  | 110                  | 215                  | 140                  | 130                  | 185                  | 185                  | 290                  | 165                  | 165                  | 180                  | 105                  | 280                  | 195                  | 105                  | 115                  | 80                   | 150                  | 135                  | 245                  | 210                  | 170                  | 110                  | 395                  | 425                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      |                      | 235                  | 265                  | 235                  |                      |                      | 220                  | 390                  | 395                  | 195                  |                      |                      | 435                  |                      |                      |                      |                      | 400                  |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      |                      |                      |                      |                      |                      |                      | 330                  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Length of int. pos. control <sup>1</sup>                            |  | 800                  | 1070                 | 1070                 | 1070                 | 800                  | 800                  | 1070                 | 1070                 | 1070                 | 800                  | 1070                 | 1070                 | 1070                 | 1070                 | 1070                 | 1070                 | 800                  | 1070                 | 1070                 | 800                  | 800                  | 1070                 | 1070                 | 1070                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5'-primer(s) <sup>2</sup>                                           |  | 527                  | 97                   | 209                  | 103                  | 103                  | 103                  | 45                   | 45                   | 45                   | 45                   | 206                  | 419                  | 142                  | 45                   | 161                  | 167                  | 355                  | 206                  | 45                   | 142                  | 409                  | 246                  | 44                   | 44                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  | 5'-TgA <sup>3'</sup> | 5'-Tcg <sup>3'</sup> | 5'-ggC <sup>3'</sup> | 5'-CCg <sup>3'</sup> | 5'-CCT <sup>3'</sup> | 5'-CCg <sup>3'</sup> | 5'-ggA <sup>3'</sup> | 5'-ggA <sup>3'</sup> | 5'-ggA <sup>3'</sup> | 5'-ggA <sup>3'</sup> | 5'-AgA <sup>3'</sup> | 5'-gTC <sup>3'</sup> | 5'-TCT <sup>3'</sup> | 5'-ggA <sup>3'</sup> | 5'-Cgg <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-TCA <sup>3'</sup> | 5'-gAC <sup>3'</sup> | 5'-ggA <sup>3'</sup> | 5'-TCT <sup>3'</sup> | 5'-ggC <sup>3'</sup> | 5'-gAA <sup>3'</sup> | 5'-ggC <sup>3'</sup> | 5'-ggC <sup>3'</sup> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  | 540                  |                      | 363                  | 103                  | 363                  |                      |                      | 357                  | 435                  | 420                  | 420                  |                      | 419                  | 540                  |                      |                      |                      |                      | 368                  | 368                  | 420                  |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  | 5'-gAC <sup>3'</sup> |                      | 5'-AgC <sup>3'</sup> | 5'-CCg <sup>3'</sup> | 5'-AAT <sup>3'</sup> |                      |                      | 5'-Tgg <sup>3'</sup> | 5'-AAA <sup>3'</sup> | 5'-TTA <sup>3'</sup> | 5'-TTA <sup>3'</sup> |                      | 5'-gTC <sup>3'</sup> | 5'-gAC <sup>3'</sup> |                      |                      |                      |                      | 5'-gTT <sup>3'</sup> | 5'-gTC <sup>3'</sup> | 5'-TTA <sup>3'</sup> |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      |                      | 5'-AgC <sup>3'</sup> | 5'-AgT <sup>3'</sup> |                      |                      |                      | 5'-ATA <sup>3'</sup> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3'-primer(s) <sup>3</sup>                                           |  | 605                  | 272                  | 309                  | 193                  | 246                  | 246                  | 165                  | 206                  | 266                  | 272                  | 272                  | 301                  | 301                  | 309                  | 234                  | 204                  | 463                  | 302                  | 259                  | 311                  | 544                  | 317                  | 272                  | 302                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  | 5'-gCT <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-gTg <sup>3'</sup> | 5'-CgT <sup>3'</sup> | 5'-TAT <sup>3'</sup> | 5'-TAT <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-CCT <sup>3'</sup> | 5'-TCC <sup>3'</sup> | 5'-TgC <sup>3'</sup> | 5'-Tgg <sup>3'</sup> | 5'-TAT <sup>3'</sup> | 5'-gTC <sup>3'</sup> | 5'-ATC <sup>3'</sup> | 5'-TCT <sup>3'</sup> | 5'-TCT <sup>3'</sup> | 5'-gCT <sup>3'</sup> | 5'-ggC <sup>3'</sup> | 5'-gTT <sup>3'</sup> | 5'-ggg <sup>3'</sup> | 5'-ggT <sup>3'</sup> | 5'-ggA <sup>3'</sup> | 5'-TgC <sup>3'</sup> | 5'-ggT <sup>3'</sup> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      | 272                  | 559                  | 193                  | 246                  |                      |                      | 538                  | 559                  | 559                  | 572                  |                      | 301                  | 605                  |                      |                      |                      |                      | 266                  | 311                  |                      |                      |                      | 302                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      | 5'-TgA <sup>3'</sup> | 5'-Cag <sup>3'</sup> | 5'-CgT <sup>3'</sup> | 5'-TAT <sup>3'</sup> |                      |                      | 5'-gTC <sup>3'</sup> | 5'-Cag <sup>3'</sup> | 5'-CTC <sup>3'</sup> | 5'-gCg <sup>3'</sup> |                      | 5'-gTC <sup>3'</sup> | 5'-gCT <sup>3'</sup> |                      |                      |                      |                      | 5'-TCC <sup>3'</sup> | 5'-ggg <sup>3'</sup> |                      |                      |                      | 5'-ggC <sup>3'</sup> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      |                      |                      | 583                  | 559                  |                      |                      |                      |                      |                      |                      |                      | 570                  |                      |                      |                      |                      |                      | 272                  | 538                  |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      |                      |                      | 5'-gTg <sup>3'</sup> | 5'-CTC <sup>3'</sup> |                      |                      |                      |                      |                      |                      |                      | 5'-CCg <sup>3'</sup> |                      |                      |                      |                      |                      | 5'-Tgg <sup>3'</sup> | 5'-gTC <sup>3'</sup> |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 572                  |                      |                      |                      |                      |                      | 292                  |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 5'-gCg <sup>3'</sup> |                      |                      |                      |                      |                      | 5'-gTA <sup>3'</sup> |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                     |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 572                  |                      |                      |                      |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Well No.                                                            |  | 25                   | 26                   | 27                   | 28                   | 29                   | 30                   | 31                   | 32                   | 33                   | 34                   | 35                   | 36                   | 37                   | 38                   | 39                   | 40                   | 41                   | 42                   | 43                   | 44                   | 45                   | 46                   | 47                   | 48                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| INTERPRETATION TABLE                                                |                      |                      |                      |                          |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
|---------------------------------------------------------------------|----------------------|----------------------|----------------------|--------------------------|----------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----|-----------------------------------|---------------------------------------------|
| HLA-B low resolution SSP                                            |                      |                      |                      |                          |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
| Amplification patterns of the B*0702 to B*8301 alleles <sup>6</sup> |                      |                      |                      |                          |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
| Well                                                                |                      |                      |                      |                          |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
| 49                                                                  | 50                   | 51                   | 52                   | 53                       | 54                   | 55                       | 56                   | 57                   | 58                   | 59                   | 60                   | 61                   | 62                   | 63                   | 64                   | 65                   | 66                   | 67                   | 68                   | 69                   | 70                   | 71                   | 72                   |     |                                   |                                             |
| 175                                                                 | 130                  | 105                  | 325                  | 115                      | 215                  | 130                      | 90                   | 90                   | 145                  | 120                  | 430                  | 145                  | 300                  | 160                  | 180                  | 180                  | 90                   | 90                   | 95                   | 115                  | 360                  | 350                  | 290                  |     | Length of spec.<br>PCR product(s) |                                             |
|                                                                     |                      |                      |                      | 195                      |                      | 270                      | 410                  | 175                  | 430                  | 210                  |                      |                      |                      | 215                  | 210                  |                      | 240                  |                      |                      | 150                  |                      |                      |                      |     |                                   |                                             |
|                                                                     |                      |                      |                      | 225                      |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
|                                                                     |                      |                      |                      | 260                      |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
| 1070                                                                | 1070                 | 1070                 | 1070                 | 1070                     | 800                  | 1070                     | 1070                 | 1070                 | 1070                 | 800                  | 1070                 | 1070                 | 1070                 | 1070                 | 1070                 | 1070                 | 1070                 | 800                  | 1070                 | 1070                 | 1070                 | 1070                 | 1070                 | 800 |                                   | Length of int.<br>pos. control <sup>1</sup> |
| 363                                                                 | 106                  | 540                  | 1 <sup>st</sup> ↓    | 355                      | 141                  | 209                      | 41                   | 209                  | 48                   | 357                  | 49                   | 206                  | 1 <sup>st</sup> ↓    | 1 <sup>st</sup> ↓    | 141                  | 420                  | 209                  | 209                  | 206                  | 165                  | 1 <sup>st</sup> ↓    | 1 <sup>st</sup> ↓    | 355                  |     | 5'-primer(s) <sup>2</sup>         |                                             |
| 5' -Agg <sup>3</sup>                                                | 5' -CCg <sup>3</sup> | 5' -gAC <sup>3</sup> | 5' -cAG <sup>3</sup> | 5' -TcA <sup>3</sup>     | 5' -ATT <sup>3</sup> | 5' -ggC <sup>3</sup>     | 5' -CTg <sup>3</sup> | 5' -ggC <sup>3</sup> | 5' -gCC <sup>3</sup> | 5' -Tgg <sup>3</sup> | 5' -cAG <sup>3</sup> | 5' -gAA <sup>3</sup> | 5' -cAG <sup>3</sup> | 5' -cAG <sup>3</sup> | 5' -ATT <sup>3</sup> | 5' -TTA <sup>3</sup> | 5' -ggC <sup>3</sup> | 5' -gga <sup>3</sup> | 5' -gAC <sup>3</sup> | 5' -ACC <sup>3</sup> | 5' -cAG <sup>3</sup> | 5' -cAG <sup>3</sup> | 5' -TcA <sup>3</sup> |     |                                   |                                             |
|                                                                     |                      |                      |                      | 418                      | 357                  | 209                      | 368                  | 363                  | 206                  |                      |                      |                      |                      | 418                  | 420                  |                      | 362                  | 369                  |                      | 463                  |                      |                      | 363                  |     |                                   |                                             |
|                                                                     |                      |                      |                      | 5' -TCT <sup>3</sup> 499 | 5' -Tgg <sup>3</sup> | 5' -ggg <sup>3</sup>     | 5' -gTT <sup>3</sup> | 5' -AgC <sup>3</sup> | 5' -gAA <sup>3</sup> |                      |                      |                      |                      | 5' -Agg <sup>3</sup> | 5' -TTA <sup>3</sup> |                      | 5' -ggT <sup>3</sup> | 5' -TAc <sup>3</sup> |                      | 5' -TgA <sup>3</sup> |                      |                      | 5' -AgC <sup>3</sup> |     |                                   |                                             |
|                                                                     |                      |                      |                      |                          |                      | 5' -TCA <sup>3</sup> 355 |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
| 499                                                                 | 193                  | 603                  | 282                  | 538                      | 309                  | 299                      | 282                  | 259                  | 309                  | 435                  | 309                  | 311                  | 259                  | 175                  | 311                  | 559                  | 256                  | 256                  | 259                  | 272                  | 317                  | 311                  | 603                  |     | 3'-primer(s) <sup>3</sup>         |                                             |
| 5' -ggA <sup>3</sup>                                                | 5' -cGt <sup>3</sup> | 5' -gTg <sup>3</sup> | 5' -gCC <sup>3</sup> | 5' -gTC <sup>3</sup>     | 5' -ATC <sup>3</sup> | 5' -TcA <sup>3</sup>     | 5' -gCC <sup>3</sup> | 5' -gTT <sup>3</sup> | 5' -ATC <sup>3</sup> | 5' -TCT <sup>3</sup> | 5' -ATC <sup>3</sup> | 5' -ggT <sup>3</sup> | 5' -CTC <sup>3</sup> | 5' -CCg <sup>3</sup> | 5' -ggT <sup>3</sup> | 5' -cAG <sup>3</sup> | 5' -CCC <sup>3</sup> | 5' -CCC <sup>3</sup> | 5' -gTT <sup>3</sup> | 5' -TgC <sup>3</sup> | 5' -ggA <sup>3</sup> | 5' -ggT <sup>3</sup> | 5' -gTg <sup>3</sup> |     |                                   |                                             |
|                                                                     | 193                  | 605                  |                      | 572                      | 538                  | 583                      | 418                  | 499                  |                      | 527                  |                      |                      | 259                  | 538                  | 559                  |                      | 559                  | 256                  |                      | 538                  |                      |                      | 605                  |     |                                   |                                             |
|                                                                     | 5' -TgT <sup>3</sup> | 5' -gCT <sup>3</sup> |                      | 5' -gCg <sup>3</sup>     | 5' -gTC <sup>3</sup> | 5' -gTg <sup>3</sup>     | 5' -gTC <sup>3</sup> | 5' -ggA <sup>3</sup> |                      | 5' -CCT <sup>3</sup> |                      |                      | 5' -CTC <sup>3</sup> | 5' -gTC <sup>3</sup> | 5' -cGt <sup>3</sup> |                      | 5' -cGt <sup>3</sup> | 5' -CTC <sup>3</sup> | 5' -CCA <sup>3</sup> |                      |                      | 5' -gCT <sup>3</sup> |                      |     |                                   |                                             |
|                                                                     |                      |                      |                      |                          |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 420                  |                      |                      |                      |                      |                      |     |                                   |                                             |
|                                                                     |                      |                      |                      |                          |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
|                                                                     |                      |                      |                      |                          |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
|                                                                     |                      |                      |                      |                          |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
|                                                                     |                      |                      |                      |                          |                      |                          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |                                   |                                             |
| 49                                                                  | 50                   | 51                   | 52                   | 53                       | 54                   | 55                       | 56                   | 57                   | 58                   | 59                   | 60                   | 61                   | 62                   | 63                   | 64                   | 65                   | 66                   | 67                   | 68                   | 69                   | 70                   | 71                   | 72                   |     | Well No.                          |                                             |

| Well No.                                                                                                                                                                                                                              |                   | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele <sup>4</sup>                                                                                                                                                                                                             | ser. <sup>5</sup> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *070201-070207,<br>070209, 070501-0706,<br>0710, 0712, 0714,<br>071801, 071802, 0721-<br>0723, 0726, 0728-<br>0731, 0734, 0735,<br>0739, 0741-0747,<br>0749N, 0752, 0755-<br>0759, 0761-0764, 0766-<br>0768, 0770-0772,<br>0775, 0776 | B7                | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0703, 0708, 0716,<br>0732, 0737                                                                                                                                                                                                      | B7,<br>B703       | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0704, 0725                                                                                                                                                                                                                           | B7                | 25 |    |    |    |    |    |    |    |    |    |    |    |    | 38 |    |    |    |    |    |    |    |    |    | 48 |
| *0707, 0777                                                                                                                                                                                                                           | B7                | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0709, 0711, 0717                                                                                                                                                                                                                     | B7                | 25 |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0713, 0715                                                                                                                                                                                                                           | -                 | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0719, 0733, 0740,<br>0753                                                                                                                                                                                                            | -                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0720, 0724                                                                                                                                                                                                                           | -                 | 25 |    | 27 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0727                                                                                                                                                                                                                                 | -                 | 25 |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    | 44 |    |    |    |    |    |
| *0736                                                                                                                                                                                                                                 | -                 | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0738                                                                                                                                                                                                                                 | -                 | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0748, 0751                                                                                                                                                                                                                           | -                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0750                                                                                                                                                                                                                                 | -                 | 25 |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0754                                                                                                                                                                                                                                 | -                 | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0760                                                                                                                                                                                                                                 | -                 |    |    | 27 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0765                                                                                                                                                                                                                                 | -                 | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |
| *0769                                                                                                                                                                                                                                 | -                 | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 47 | 48 |
| *080101-080106, 0805,<br>0808N, 0810, 0811,<br>0815, 0818, 0819N,<br>0822-0824, 0827, 0829-<br>0831, 0833, 0834                                                                                                                       | B8,<br>Null       |    | 26 |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0802, 0803                                                                                                                                                                                                                           | B8                |    | 26 |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0804                                                                                                                                                                                                                                 | -                 |    | 26 |    |    |    |    |    | 32 |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0806, 0813, 0820,<br>0840                                                                                                                                                                                                            | B8                |    | 26 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0807, 0814                                                                                                                                                                                                                           |                   |    | 26 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0809                                                                                                                                                                                                                                 | -                 |    | 26 |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *081201, 0816                                                                                                                                                                                                                         | -                 |    | 26 |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0817                                                                                                                                                                                                                                 | -                 |    | 26 |    |    |    |    |    | 32 |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0821                                                                                                                                                                                                                                 |                   |    | 26 | 27 |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| Well No.                                                                                                                                                                                                                              |                   | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

Lot No.: **23G**

Lot-specific information

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                   | Well No.                                                                                                                                                                                                                             |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ser. <sup>5</sup> | HLA-B allele <sup>4</sup>                                                                                                                                                                                                            |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | B7                | *070201-070207,<br>070209, 070501-0706,<br>0710, 0712, 0714,<br>071801, 071802, 0721-<br>0723, 0726, 0728-<br>0731, 0734, 0735,<br>0739, 0741-0747,<br>0749N, 0752, 0755-<br>0759, 0761-0764, 0766<br>0768, 0770-0772,<br>0775, 0776 |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | B7,<br>B703       | *0703, 0708, 0716,<br>0732, 0737                                                                                                                                                                                                     |
|    |    | 51 | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | B7                | *0704, 0725                                                                                                                                                                                                                          |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B7                | *0707, 0777                                                                                                                                                                                                                          |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | B7                | *0709, 0711, 0717                                                                                                                                                                                                                    |
|    |    |    | w  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *0713, 0715                                                                                                                                                                                                                          |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -                 | *0719, 0733, 0740,<br>0753                                                                                                                                                                                                           |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *0720, 0724                                                                                                                                                                                                                          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    | 72 | -                 | *0727                                                                                                                                                                                                                                |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    | 72 | -                 | *0736                                                                                                                                                                                                                                |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    | 72 | -                 | *0738                                                                                                                                                                                                                                |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *0748, 0751                                                                                                                                                                                                                          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *0750                                                                                                                                                                                                                                |
|    |    |    | 52 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *0754                                                                                                                                                                                                                                |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -                 | *0760                                                                                                                                                                                                                                |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    | 64 |    |    |    |    | w  |    |    | 71 | 72 | -                 | *0765                                                                                                                                                                                                                                |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *0769                                                                                                                                                                                                                                |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | B8,<br>Null       | *080101-080106, 0805,<br>0808N, 0810, 0811,<br>0815, 0818, 0819N,<br>0822-0824, 0827, 0829<br>0831, 0833, 0834                                                                                                                       |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    | 72 | B8                | *0802, 0803                                                                                                                                                                                                                          |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *0804                                                                                                                                                                                                                                |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | B8                | *0806, 0813, 0820,<br>0840                                                                                                                                                                                                           |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 |                   | *0807, 0814                                                                                                                                                                                                                          |
|    |    | 51 |    |    | 54 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -                 | *0809                                                                                                                                                                                                                                |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -                 | *081201, 0816                                                                                                                                                                                                                        |
|    |    | 51 |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *0817                                                                                                                                                                                                                                |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 |                   | *0821                                                                                                                                                                                                                                |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                   | Well No.                                                                                                                                                                                                                             |

Lot No.: **23G**

Lot-specific information

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| Well No.                                              |      | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|-------------------------------------------------------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *0825                                                 | -    |    | 26 | 27 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0826, 4207                                           | -    |    |    |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0828, 0837                                           | -    |    | 26 |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0832                                                 | -    |    | 26 |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    | 42 |    |    |    |    |    | 48 |
| *0835                                                 | -    |    | 26 |    |    |    |    |    | 32 |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *0836                                                 | -    |    | 26 |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0838                                                 | -    |    | 26 |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *130101, 130102,<br>1317, 1320, 132201-<br>1323, 1325 | B13  |    |    | 27 | 28 |    |    |    |    |    | 34 |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |
| *130201-130205,<br>1308Q, 1315, 1318,<br>1319         | B13  |    |    | 27 | 28 |    |    |    |    |    | 34 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1303                                                 | -    |    |    | 27 | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1304, 1310                                           | -    |    |    | 27 | 28 |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1306                                                 | -    |    |    | 27 | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |
| *1307N                                                | Null |    |    | 27 | 28 |    |    |    |    |    | 34 |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |
| *1309                                                 | -    |    |    |    | 28 |    |    |    |    |    | 34 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1311                                                 | -    |    |    | 27 | 28 |    |    |    |    |    | 34 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1312, 1313                                           | -    |    |    | 27 | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |
| *1314                                                 | -    |    |    | 27 |    |    |    |    |    |    | 34 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1316                                                 | -    |    |    | 27 | 28 |    |    |    |    |    | 34 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1321                                                 | -    |    |    | 27 | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1326                                                 | -    |    |    | 27 | 28 |    |    |    |    |    |    | 36 |    |    |    |    |    |    | 41 |    |    |    |    |    |    |
| *1401, 1407N                                          | B64  |    |    |    | 28 | 29 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 47 | 48 |
| *140201-1404, 1409                                    | B65  |    |    |    | 28 |    | 30 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 47 | 48 |
| *1405-140602                                          | -    |    |    |    |    |    | 30 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 47 | 48 |
| *1408, 3925N, 3930,<br>3932-3934, 3947, 3950          | -    |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 47 | 48 |
| *1410                                                 | -    |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    | 47 | 48 |
| Well No.                                              |      | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |      | Well No.                                              |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-------------------------------------------------------|
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -    | *0825                                                 |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -    | *0826, 4207                                           |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -    | *0828, 0837                                           |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    |    | 71 | 72 | -    | *0832                                                 |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -    | *0835                                                 |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -    | *0836                                                 |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 | 72 | -    | *0838                                                 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | B13  | *130101, 130102,<br>1317, 1320, 132201-<br>1323, 1325 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | B13  | *130201-130205,<br>1308Q, 1315, 1318,<br>1319         |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    | 65 |    |    |    |    | 70 |    |    | -    | *1303                                                 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -    | *1304, 1310                                           |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 | 64 |    |    |    |    |    |    | 70 |    |    | -    | *1306                                                 |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | Null | *1307N                                                |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -    | *1309                                                 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    | 67 |    |    |    | 70 |    | -    | *1311                                                 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -    | *1312, 1313                                           |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -    | *1314                                                 |
|    |    |    |    |    |    |    |    |    | 59 |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -    | *1316                                                 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -    | *1321                                                 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -    | *1326                                                 |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B64  | *1401, 1407N                                          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B65  | *140201-1404, 1409                                    |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -    | *1405-140602                                          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -    | *1408, 3925N, 3930,<br>3932-3934, 3947, 3950          |
|    |    |    |    |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -    | *1410                                                 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |      | Well No.                                              |

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| Well No.                                                                                                                                                                                                                                                                                                                                      |                      | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| *15010101,<br>15010102N, 150103,<br>150106-150108, 1526N-<br>152703, 1532, 1534,<br>1535, 1538, 1550,<br>1556, 1560, 1570,<br>1571, 1575, 1579N,<br>1581, 1582, 1592,<br>1594N, 1596, 1597,<br>9502, 9504, 9505,<br>9509-9511N, 9513,<br>9517, 9518, 9522,<br>9525, 9528, 9529,<br>9535, 9540, 9545-<br>9547, 9552, 9559,<br>9560, 9563, 9564 | B62,<br>Null,<br>B15 |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *150102                                                                                                                                                                                                                                                                                                                                       | B62                  |    |    |    |    |    |    | 31 |    | 33 |    |    | 36 |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *150104                                                                                                                                                                                                                                                                                                                                       | B62                  |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1502, 1588, 9512,<br>9521, 9539                                                                                                                                                                                                                                                                                                              | B75                  |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    | 41 |    | 43 |    |    |    |    |    |  |
| *150301, 1547, 1549,<br>1561, 1598, 9503,<br>9523, 9527, 9532,<br>9551, 9556, 9558                                                                                                                                                                                                                                                            | B72                  |    |    |    |    |    |    |    | 32 |    |    | 35 | 36 |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1504                                                                                                                                                                                                                                                                                                                                         |                      |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1505, 1506, 1533,<br>1539, 1540, 1565,<br>157801, 1584, 9507,<br>9536, 9541, 9555                                                                                                                                                                                                                                                            | B62,<br>B15          |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1507, 9526                                                                                                                                                                                                                                                                                                                                   | B62                  |    |    | 27 |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1508, 151101-151103,<br>1515, 9548                                                                                                                                                                                                                                                                                                           | B75                  |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1509                                                                                                                                                                                                                                                                                                                                         | B70                  |    |    |    |    |    |    |    | 32 | 33 | 34 |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1510, 1537, 1590,<br>1599, 9533                                                                                                                                                                                                                                                                                                              | B71                  |    |    |    |    |    |    |    | 32 |    | 34 |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1512, 1514, 1519                                                                                                                                                                                                                                                                                                                             | B76                  |    |    |    |    |    |    | 31 |    |    |    |    | 36 | 37 |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1513                                                                                                                                                                                                                                                                                                                                         | B77                  |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    | 38 |    |    | 41 |    | 43 |    |    |    |    |    |  |
| *1516, 1567, 1595                                                                                                                                                                                                                                                                                                                             | B63                  |    |    |    |    |    |    |    |    | 33 |    |    | 36 |    | 38 |    |    |    |    | 43 |    |    |    |    |    |  |
| *15170101-151702                                                                                                                                                                                                                                                                                                                              | B63                  |    |    |    |    |    |    | 31 |    | 33 |    |    |    |    | 38 |    |    |    |    | 43 |    |    |    |    |    |  |
| *1518, 1551, 1552,<br>1572, 1593, 9508,<br>9514, 9519, 9534,<br>9553                                                                                                                                                                                                                                                                          | B71                  |    |    |    |    |    |    |    | 32 |    | 34 |    | 36 |    |    |    |    |    |    | 43 |    |    |    |    |    |  |
| *1520, 152501                                                                                                                                                                                                                                                                                                                                 | B62                  |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    | 41 |    | 43 |    |    |    |    |    |  |
| *1521, 1544                                                                                                                                                                                                                                                                                                                                   | B75                  |    |    |    |    |    |    | 31 |    |    | 34 |    | 36 |    |    |    |    | 41 |    | 43 |    |    |    |    |    |  |
| Well No.                                                                                                                                                                                                                                                                                                                                      |                      | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |  |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                      | Well No.                                                                                                                                                                                                                                                                                                                                     |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    | 69 |    | 71 |    | B62,<br>Null,<br>B15 | *15010101,<br>15010102N, 150103,<br>150106-150108, 1526N<br>152703, 1532, 1534,<br>1535, 1538, 1550,<br>1556, 1560, 1570,<br>1571, 1575, 1579N,<br>1581, 1582, 1592,<br>1594N, 1596, 1597,<br>9502, 9504, 9505,<br>9509-9511N, 9513,<br>9517, 9518, 9522,<br>9525, 9528, 9529,<br>9535, 9540, 9545-<br>9547, 9552, 9559,<br>9560, 9563, 9564 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    | 69 |    | 71 |    | B62                  | *150102                                                                                                                                                                                                                                                                                                                                      |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 | 63 |    |    |    |    |    | 69 |    | 71 |    | B62                  | *150104                                                                                                                                                                                                                                                                                                                                      |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B75                  | *1502, 1588, 9512,<br>9521, 9539                                                                                                                                                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | B72                  | *150301, 1547, 1549,<br>1561, 1598, 9503,<br>9523, 9527, 9532,<br>9551, 9556, 9558                                                                                                                                                                                                                                                           |
|    |    |    |    |    |    |    |    |    | w  |    |    |    | 62 |    |    |    |    |    |    | 69 |    | 71 |    |                      | *1504                                                                                                                                                                                                                                                                                                                                        |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | B62,<br>B15          | *1505, 1506, 1533,<br>1539, 1540, 1565,<br>157801, 1584, 9507,<br>9536, 9541, 9555                                                                                                                                                                                                                                                           |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    | 69 |    | 71 |    | B62                  | *1507, 9526                                                                                                                                                                                                                                                                                                                                  |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    | 69 |    | 71 |    | B75                  | *1508, 151101-151103,<br>1515, 9548                                                                                                                                                                                                                                                                                                          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B70                  | *1509                                                                                                                                                                                                                                                                                                                                        |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B71                  | *1510, 1537, 1590,<br>1599, 9533                                                                                                                                                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    | 69 |    | 71 |    | B76                  | *1512, 1514, 1519                                                                                                                                                                                                                                                                                                                            |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | B77                  | *1513                                                                                                                                                                                                                                                                                                                                        |
|    |    |    |    |    |    |    |    |    | 59 |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | B63                  | *1516, 1567, 1595                                                                                                                                                                                                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | B63                  | *15170101-151702                                                                                                                                                                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B71                  | *1518, 1551, 1552,<br>1572, 1593, 9508,<br>9514, 9519, 9534,<br>9553                                                                                                                                                                                                                                                                         |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | B62                  | *1520, 152501                                                                                                                                                                                                                                                                                                                                |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B75                  | *1521, 1544                                                                                                                                                                                                                                                                                                                                  |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                      | Well No.                                                                                                                                                                                                                                                                                                                                     |

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| Well No.           |      | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|--------------------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *1523              | -    |    |    |    |    |    |    |    | 32 |    | 34 |    | 36 |    | 38 |    |    |    | 43 |    |    |    |    |    |    |
| *1524, 1587, 9557  | B62  |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    | 38 |    |    |    | 43 |    |    |    |    |    |    |
| *1528, 9520, 9549N | B15  |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1529              | B15  |    |    |    |    |    |    |    | 32 |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1530, 1558, 1563  | B62, |    |    |    |    |    |    | 31 |    |    |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1531              | B75  |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1536              | -    |    |    | w  |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    | 41 | 43 |    |    |    |    |    |    |
| *1542              | -    |    |    |    |    |    |    | 31 |    |    |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1543              | -    |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1545              | B62  |    |    | 27 |    |    |    | 31 |    |    |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1546              | B72  |    |    |    | 28 |    |    | 31 | 32 |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1548, 9550        | B62  |    |    |    |    |    |    | 31 |    |    |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1553              |      |    |    |    | 28 |    |    |    | 32 |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1554              | -    |    |    |    |    |    |    |    | 32 |    |    | 35 | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1555              | -    |    |    | 27 |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1557              | -    |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1562              | -    |    |    |    |    |    |    |    | 32 |    |    | 35 | 36 |    |    |    |    | 41 | 43 |    |    |    |    |    |    |
| *1564              | -    |    |    |    |    |    |    |    | 32 |    |    | 35 | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1566              | -    |    |    |    |    |    |    | 31 |    |    | 34 |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1568              | -    |    |    | 27 |    |    |    |    |    |    |    | 35 | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *1569              | -    |    |    |    |    |    |    |    | 32 |    |    | 35 | 36 |    |    |    |    |    | 43 |    |    | 45 |    |    |    |
| *1573              | -    |    |    |    |    |    |    | 31 |    |    |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1574              | -    |    |    |    |    |    |    |    | 32 |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1576              | -    |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | w  |    |    |    |    |    |    |
| *1577              | -    |    |    |    |    |    |    | 31 |    |    |    |    |    |    |    |    |    | 41 | 43 |    |    |    |    |    |    |
| *1580              | -    |    |    |    |    |    |    |    | 32 |    | 34 |    | 36 |    |    |    |    | 41 | 43 |    |    |    |    |    |    |
| *1583              | -    |    |    |    |    |    |    | 31 | 32 |    |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1585, 9554        | -    |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    | 41 | 43 |    |    |    |    |    |    |
| *1586              | -    |    |    |    |    |    |    | 31 |    |    |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *1589              | -    |    |    | w  |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    | 41 | 43 |    |    |    |    |    |    |
| *1591, 9531        | -    |    |    |    |    |    |    |    | 32 |    |    | 35 | 36 | 37 |    |    |    |    | 43 |    |    |    |    |    |    |
| *9501              | -    |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *9506              | -    |    |    |    | 28 |    |    | 31 | 32 |    |    |    | 36 |    |    |    |    | 41 | 43 |    |    |    |    |    |    |
| *9515              | -    |    |    |    |    |    |    |    | 32 |    | 34 |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *9516              | -    |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *9524              | -    |    |    |    |    |    |    |    | 32 |    | 34 |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *9537              | -    |    |    |    |    |    |    | 31 |    |    |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *9538              | -    | 25 |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *9542              | -    |    | 26 |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *9543              | -    |    |    |    |    |    |    | 31 | 32 |    |    |    | 36 |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *9544              | -    |    |    |    |    |    |    | 31 |    |    |    |    | 36 |    |    |    |    | 41 | 43 |    |    |    |    |    |    |
| *9561              | -    |    |    |    |    |    |    |    | 32 |    | 34 | 35 | 36 | 37 |    |    |    |    | 43 |    |    |    |    |    |    |
| Well No.           |      | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |      | Well No.           |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|--------------------|
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | -    | *1523              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 | 70 |    | B62  | *1524, 1587, 9557  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 69 |    | 71 | B15  | *1528, 9520, 9549N |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | B15  | *1529              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | B62, | *1530, 1558, 1563  |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | B75  | *1531              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -    | *1536              |
|    |    |    |    |    |    |    |    |    | 59 |    |    |    | 62 |    | 64 |    |    |    |    |    |    |    | 71 | -    | *1542              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 | 70 |    | -    | *1543              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | B62  | *1545              |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    | 69 |    | 71 | B72  | *1546              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | B62  | *1548, 9550        |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    | 69 |    | 71 |      | *1553              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | -    | *1554              |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | -    | *1555              |
|    |    |    |    |    |    | w  |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | -    | *1557              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | -    | *1562              |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | -    | *1564              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | -    | *1566              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | -    | *1568              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | -    | *1569              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    | 65 |    | 67 |    |    | 69 |    | 71 | -    | *1573              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | -    | *1574              |
|    |    |    | 52 |    |    |    |    | w  |    |    |    |    |    |    |    |    |    |    |    |    | 69 |    | 71 | -    | *1576              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | -    | *1577              |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | -    | *1580              |
|    |    |    |    | 54 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | -    | *1583              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | -    | *1585, 9554        |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    | 64 |    |    |    |    |    |    |    | 71 | -    | *1586              |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    | -    | *1589              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | -    | *1591, 9531        |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | -    | *9501              |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    |    | 71 | -    | *9506              |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    | -    | *9515              |
| 49 |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | -    | *9516              |
| 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | -    | *9524              |
|    |    |    |    |    |    |    |    |    | w  |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | -    | *9537              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 | -    | *9538              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 |    | 71 | -    | *9542              |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 |    |    |    |    |    |    |    |    | 69 |    | 71 | -    | *9543              |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    | 69 |    | 71 | -    | *9544              |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | -    | *9561              |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |      | Well No.           |

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| Well No.                                                                                                         |       | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|------------------------------------------------------------------------------------------------------------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *180101-1803, 1805-1808, 1810, 1811, 1813-1815, 1817N, 1818, 1820, 1821, 1823N-1825, 1827, 1828, 1830-1833, 1835 | B18   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    | 39 |    |    | 42 |    |    |    |    |    |    |
| *1804                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    | 39 |    |    | 42 |    |    |    |    |    |    |
| *1809                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    | 39 |    |    |    |    |    |    |    |    |    |
| *1812                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    | 39 |    |    | 42 |    |    |    |    |    |    |
| *1819                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    | 39 |    |    | 42 |    |    |    |    |    |    |
| *1822                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    | 39 |    | 41 | 42 |    |    |    |    |    |    |
| *1826                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 39 |    |    | 42 |    |    |    |    |    |    |
| *1829, 3532, 3537, 3553N, 3564, 356801, 356802, 3599                                                             | -     |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    | 42 |    |    |    |    |    |    |
| *2701                                                                                                            | B27   |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2702                                                                                                            | B27   |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2703-2706, 2709, 2710, 2713, 2717, 2720, 2727, 2731, 2735-2737, 2745, 2746, 2751                                | B27   |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2707, 2711, 2714, 2715, 2721, 2728, 2732, 2734, 2738, 2743                                                      | B27   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2708, 2726, 2740, 2742, 2744                                                                                    | B2708 |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2712                                                                                                            | -     |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2716, 2739                                                                                                      | -     |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2718                                                                                                            | -     |    |    |    |    | 29 |    |    |    |    |    | 35 |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2719                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 | 41 |    |    |    |    |    |    |    |
| *2723                                                                                                            | -     |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2724                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2725                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2729                                                                                                            | -     |    |    |    |    | 29 |    |    |    |    |    | 35 |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2730                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 | 41 |    |    |    |    |    |    |    |
| *2733                                                                                                            | -     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2741                                                                                                            | -     |    |    |    |    | 29 |    |    |    |    |    |    | 36 |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2750                                                                                                            | -     |    |    |    |    | 29 |    |    |    |    |    | 35 |    |    |    |    | 40 |    |    |    |    |    |    |    |    |
| *2752                                                                                                            | -     |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                                                                                                         |       | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |       | Well No.                                                                                                         |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|------------------------------------------------------------------------------------------------------------------|
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | B18   | *180101-1803, 1805-1808, 1810, 1811, 1813-1815, 1817N, 1818, 1820, 1821, 1823N-1825, 1827, 1828, 1830-1833, 1835 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 64 |    |    |    |    |    | 68 |    |    | 71 |    | -     | *1804                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    | 70 |    |    | -     | *1809                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -     | *1812                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 | 69 |    | 71 |    | -     | *1819                                                                                                            |
|    |    |    |    |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -     | *1822                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -     | *1826                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -     | *1829, 3532, 3537, 3553N, 3564, 356801, 356802, 3599                                                             |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | B27   | *2701                                                                                                            |
|    |    |    | 52 |    |    |    | 56 |    |    |    | 60 |    | 62 |    |    |    |    |    |    |    |    | 70 |    | B27   | *2702                                                                                                            |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | B27   | *2703-2706, 2709, 2710, 2713, 2717, 2720, 2727, 2731, 2735-2737, 2745, 2746, 2751                                |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | B27   | *2707, 2711, 2714, 2715, 2721, 2728, 2732, 2734, 2738, 2743                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | B2708 | *2708, 2726, 2740, 2742, 2744                                                                                    |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -     | *2712                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -     | *2716, 2739                                                                                                      |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -     | *2718                                                                                                            |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -     | *2719                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    | -     | *2723                                                                                                            |
|    |    |    | 52 |    |    |    | 56 | 57 |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -     | *2724                                                                                                            |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 69 | 70 |    | -     | *2725                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -     | *2729                                                                                                            |
|    |    |    | 52 |    |    |    | 56 |    |    |    | 60 |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -     | *2730                                                                                                            |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -     | *2733                                                                                                            |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -     | *2741                                                                                                            |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -     | *2750                                                                                                            |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 70 |    | -     | *2752                                                                                                            |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |       | Well No.                                                                                                         |

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| Well No.                                                                                                                                         |     | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *350101-350107, 3507-350803, 3511, 3515, 352001, 352002, 3523, 3529, 3540N-3542, 3548, 3550, 3552, 3554, 3557, 3561, 3577, 3578, 3582, 3590-3594 | B35 |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *350201-350401, 350403, 3506, 3512, 3533, 3534, 3536, 3539, 3555, 3559, 3565Q, 3570, 3574, 3583-3585, 3595                                       | B35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *350402                                                                                                                                          | -   |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *3505, 3551, 3558, 3572, 3589, 3597                                                                                                              | B35 |    |    | 27 |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *350901, 350902, 3518, 3531, 3575, 3588                                                                                                          | B35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *3510, 3528, 3569, 3580                                                                                                                          | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *3513                                                                                                                                            | B35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *351401, 351402, 3562                                                                                                                            | B35 |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *3516                                                                                                                                            | -   |    |    | 27 |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *3517, 3530                                                                                                                                      | B35 |    |    | 27 |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *3519                                                                                                                                            | B35 |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *3521, 3524                                                                                                                                      | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *3522                                                                                                                                            | -   |    |    | 27 |    |    |    |    |    |    |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *3525, 3549                                                                                                                                      | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *3526                                                                                                                                            | -   |    |    |    |    |    | 30 |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *3527                                                                                                                                            | B35 |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *3535                                                                                                                                            | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 | 42 |    |    | 45 |    |    |    |
| *3538                                                                                                                                            | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *3543, 3567, 3579, 3586                                                                                                                          | B35 |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *3544                                                                                                                                            | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *3545, 3571                                                                                                                                      | -   |    |    |    |    |    |    |    |    |    |    |    | 36 | 37 |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *3546                                                                                                                                            | -   |    |    |    | 28 |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *3547                                                                                                                                            | -   |    |    |    | 28 |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *3556                                                                                                                                            | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *3560                                                                                                                                            | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *3563                                                                                                                                            | -   |    |    |    | 28 |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *3566                                                                                                                                            | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *3576                                                                                                                                            | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| Well No.                                                                                                                                         |     | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |     | Well No.                                                                                                                                         |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------|
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | B35 | *350101-350107, 3507-350803, 3511, 3515, 352001, 352002, 3523, 3529, 3540N-3542, 3548, 3550, 3552, 3554, 3557, 3561, 3577, 3578, 3582, 3590-3594 |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | B35 | *350201-350401, 350403, 3506, 3512, 3533, 3534, 3536, 3539, 3555, 3559, 3565Q, 3570, 3574, 3583-3585, 3595                                       |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -   | *350402                                                                                                                                          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | B35 | *3505, 3551, 3558, 3572, 3589, 3597                                                                                                              |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | B35 | *350901, 350902, 3518, 3531, 3575, 3588                                                                                                          |
|    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 |    | -   | *3510, 3528, 3569, 3580                                                                                                                          |
|    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 |    | B35 | *3513                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 | 69 |    | 71 |    | B35 | *351401, 351402, 3562                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 |    | -   | *3516                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | B35 | *3517, 3530                                                                                                                                      |
|    |    |    |    |    |    |    |    |    |    |    | 61 |    |    |    |    |    |    |    |    |    |    | 71 |    | B35 | *3519                                                                                                                                            |
|    |    |    |    |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -   | *3521, 3524                                                                                                                                      |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -   | *3522                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *3525, 3549                                                                                                                                      |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *3526                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | B35 | *3527                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -   | *3535                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -   | *3538                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 | 69 |    | 71 |    | B35 | *3543, 3567, 3579, 3586                                                                                                                          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 | 69 |    | 71 |    | -   | *3544                                                                                                                                            |
|    |    |    |    |    |    | 53 |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -   | *3545, 3571                                                                                                                                      |
|    |    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *3546                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 |    |    |    |    |    |    |    |    |    | 71 |    | -   | *3547                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -   | *3556                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 64 |    |    |    | 68 |    |    | 71 |    | -   | *3560                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | -   | *3563                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 | 72 | -   | *3566                                                                                                                                            |
|    |    |    |    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    | w  |    |    | 71 |    | -   | *3576                                                                                                                                            |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |     | Well No.                                                                                                                                         |

| Well No.                                                                                                                                                                          |               | 25 | 26 | 27 | 28 | 29  | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *3581                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    | 41 | 42 |    |    |    |    |    |    |
| *3587                                                                                                                                                                             | -             |    |    |    |    |     |    |    | 32 |    |    |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |
| *370101-370103,<br>370105, 3703N, 3706,<br>3713                                                                                                                                   | B37,<br>Null  |    |    |    |    |     |    |    |    |    |    |    |    | 37 |    |    |    | 41 |    |    | 44 |    |    |    |    |
| *370104                                                                                                                                                                           | -             |    |    |    |    |     |    |    |    |    |    |    |    | 37 |    |    |    | 41 |    |    | 44 |    |    |    |    |
| *3702                                                                                                                                                                             | -             |    |    |    |    | 29  |    |    |    |    |    |    |    | 37 |    |    |    |    |    |    | 44 |    |    |    |    |
| *3704                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    | 37 |    |    |    | 41 |    |    | 44 |    |    |    |    |
| *3705                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    | 37 |    |    |    | 41 |    |    | 44 |    |    |    |    |
| *3707                                                                                                                                                                             | -             | 25 |    |    |    |     |    |    |    |    |    |    |    | 37 |    |    |    |    |    |    | 44 |    |    |    |    |
| *3708                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    | 37 |    |    |    | 41 |    |    | 44 |    |    |    |    |
| *3709                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    | 37 |    |    |    |    |    |    | 44 |    |    |    |    |
| *3710                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    | 44 |    |    |    |    |
| *3711                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    | 41 | 42 |    | 44 |    |    |    |    |
| *3712                                                                                                                                                                             | -             |    |    |    |    |     |    |    | 32 |    |    |    |    | 37 |    |    |    |    |    |    | 44 |    |    |    |    |
| *3714                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    | 44 |    |    |    |    |
| *380101-380202, 3808,<br>3809, 3811-3816,<br>3818, 3819                                                                                                                           | B38           |    |    |    |    | 29  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 | 46 | 47 |    |
| *3803                                                                                                                                                                             | B16           |    |    |    |    | 29  |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    | 45 | 46 |    |    |
| *3804                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    | 47 |    |
| *3805                                                                                                                                                                             | -             |    |    |    |    |     | 30 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 | 46 | 47 |    |
| *3806                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    |    |    |
| *3807                                                                                                                                                                             | -             |    |    |    |    | 29  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    |    |    |
| *3810                                                                                                                                                                             | -             |    |    |    |    | 29  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 46 | 47 |    |
| *3817                                                                                                                                                                             | -             |    |    |    |    | 29  |    |    |    |    |    |    |    | 37 |    |    |    |    |    |    | 44 | 45 | 46 | 47 |    |
| *39010101,<br>39010102L, 390103-<br>390106, 3903, 3905-<br>390602, 3909, 3911,<br>3914, 3915, 3924,<br>3926-3929, 3931,<br>3935, 3937, 3938Q,<br>3940N, 3941, 3944,<br>3946, 3948 | B3901,<br>B39 |    |    |    |    | 29  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    | 47 | 48 |
| *390201, 3908                                                                                                                                                                     | B3902,<br>B39 |    |    |    |    | 29  |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    | 45 |    |    | 48 |
| *390202, 391301,<br>391302, 3923, 3949                                                                                                                                            | B3902,<br>B39 |    |    |    |    |     |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    | 45 |    |    | 48 |
| *3904                                                                                                                                                                             | B39           |    |    |    |    |     | 30 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    | 47 | 48 |
| *3907                                                                                                                                                                             | -             |    |    |    |    | ? ? |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    | 45 |    | 47 | 48 |
| *3910, 3916, 3920                                                                                                                                                                 | B39           |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    |    | 48 |
| *3912, 3945                                                                                                                                                                       | -             |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    | 47 | 48 |
| *3917                                                                                                                                                                             | -             |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    |    | 48 |
| *3918                                                                                                                                                                             | -             |    |    |    |    | 29  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    | 47 | 48 |
| Well No.                                                                                                                                                                          |               | 25 | 26 | 27 | 28 | 29  | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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Lot-specific information

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |               | Well No.                                                                                                                                                                          |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |    |    |    |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    |    | -             | *3581                                                                                                                                                                             |
|    |    | 51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 | 72 |    | -             | *3587                                                                                                                                                                             |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | B37,<br>Null  | *370101-370103,<br>370105, 3703N, 3706,<br>3713                                                                                                                                   |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 | 63 |    |    |    |    |    |    | 70 |    |    | -             | *370104                                                                                                                                                                           |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -             | *3702                                                                                                                                                                             |
|    |    |    |    | 53 |    | 55 |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -             | *3704                                                                                                                                                                             |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -             | *3705                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 | 72 |    | -             | *3707                                                                                                                                                                             |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 70 |    |    | -             | *3708                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -             | *3709                                                                                                                                                                             |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -             | *3710                                                                                                                                                                             |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -             | *3711                                                                                                                                                                             |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -             | *3712                                                                                                                                                                             |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 | w  |    | -             | *3714                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | B38           | *380101-380202, 3808,<br>3809, 3811-3816,<br>3818, 3819                                                                                                                           |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | B16           | *3803                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -             | *3804                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | -             | *3805                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 70 |    |    | -             | *3806                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 70 |    |    | -             | *3807                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | -             | *3810                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | -             | *3817                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B3901,<br>B39 | *39010101,<br>39010102L, 390103-<br>390106, 3903, 3905-<br>390602, 3909, 3911,<br>3914, 3915, 3924,<br>3926-3929, 3931,<br>3935, 3937, 3938Q,<br>3940N, 3941, 3944,<br>3946, 3948 |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | B3902,<br>B39 | *390201, 3908                                                                                                                                                                     |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | B3902,<br>B39 | *390202, 391301,<br>391302, 3923, 3949                                                                                                                                            |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B39           | *3904                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -             | *3907                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B39           | *3910, 3916, 3920                                                                                                                                                                 |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -             | *3912, 3945                                                                                                                                                                       |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 64 |    |    | 67 |    |    |    | 71 |    | -             | *3917                                                                                                                                                                             |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 69 | 71 |    | -             | *3918                                                                                                                                                                             |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |               | Well No.                                                                                                                                                                          |

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| Well No.                                                                                                                      |                | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *391901                                                                                                                       | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 42 |    |    |    | 45 |    | 47 | 48 |
| *391902                                                                                                                       | -              |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    |    |    | 42 |    |    |    | 45 |    | 47 | 48 |
| *3922                                                                                                                         | -              |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    | 47 | 48 |
| *3936                                                                                                                         | -              |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 47 | 48 |
| *3939                                                                                                                         | -              |    |    |    |    | 29 |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    | 45 |    |    | 48 |
| *3942                                                                                                                         | -              |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    | 45 |    | 47 | 48 |
| *3943                                                                                                                         | -              |    |    |    |    | 29 |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    | 47 | 48 |
| *400101-400106, 4007, 4051, 4066, 4073, 4079                                                                                  | B60, B40       |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *400201-400205, 4004, 40060101-400602, 4039, 4070, 4089, 4097                                                                 | B61, B40       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4003, 4020                                                                                                                   | B40            |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4005                                                                                                                         | B4005          |    |    | 27 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4008                                                                                                                         | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4009, 4011, 4018, 4024, 4027, 4029, 4035, 4037, 4040, 4044, 4050, 4056, 4057, 4064, 4075, 4078, 4082, 4085, 4086, 4090, 4091 | B61, B40       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4010, 4022N, 4033, 4036, 4042, 4043, 4049, 4054, 4055, 4061-4063, 4065, 4067, 4081, 4084, 4087, 4088, 4092                   | Null, B40, B60 |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4012                                                                                                                         | -              |    |    |    |    |    |    |    | 32 |    |    | 35 |    |    |    |    |    |    | 43 |    |    |    |    |    |    |    |
| *4013, 4019                                                                                                                   | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *401401-401403, 4053                                                                                                          | -              |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4015, 4032                                                                                                                   | B61            | 25 |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4016                                                                                                                         | -              | 25 |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4021                                                                                                                         | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4023                                                                                                                         | -              | 25 |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4025, 4069                                                                                                                   | -              |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4026                                                                                                                         | B21            |    |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4028                                                                                                                         | -              |    |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    | ?  |
| *4030, 4034                                                                                                                   | -              |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4031, 4045, 4080                                                                                                             | -              |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4038, 4052                                                                                                                   | -              |    |    |    | 28 |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4046                                                                                                                         | -              |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    | 40 |    |    |    |    |    |    |    |    | ?  |
| Well No.                                                                                                                      |                | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                | Well No.                                                                                                                      |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------|-------------------------------------------------------------------------------------------------------------------------------|
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -              | *391901                                                                                                                       |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | -              | *391902                                                                                                                       |
|    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 |    | -              | *3922                                                                                                                         |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 69 |    | 71 |    | -              | *3936                                                                                                                         |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -              | *3939                                                                                                                         |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -              | *3942                                                                                                                         |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -              | *3943                                                                                                                         |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | B60, B40       | *400101-400106, 4007, 4051, 4066, 4073, 4079                                                                                  |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | B61, B40       | *400201-400205, 4004, 40060101-400602, 4039, 4070, 4089, 4097                                                                 |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | B40            | *4003, 4020                                                                                                                   |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | B4005          | *4005                                                                                                                         |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61 |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4008                                                                                                                         |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | B61, B40       | *4009, 4011, 4018, 4024, 4027, 4029, 4035, 4037, 4040, 4044, 4050, 4056, 4057, 4064, 4075, 4078, 4082, 4085, 4086, 4090, 4091 |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | Null, B40, B60 | *4010, 4022N, 4033, 4036, 4042, 4043, 4049, 4054, 4055, 4061-4063, 4065, 4067, 4081, 4084, 4087, 4088, 4092                   |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4012                                                                                                                         |
|    | 50 |    |    |    |    |    |    | 58 |    | 60 |    | 62 |    |    |    |    |    |    |    |    | 70 |    |    | -              | *4013, 4019                                                                                                                   |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *401401-401403, 4053                                                                                                          |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 | 72 | B61            | *4015, 4032                                                                                                                   |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 | 72 | -              | *4016                                                                                                                         |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4021                                                                                                                         |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *4023                                                                                                                         |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 61 |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4025, 4069                                                                                                                   |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | B21            | *4026                                                                                                                         |
|    | 50 |    |    |    |    | 55 |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *4028                                                                                                                         |
|    |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 | 72 | -              | *4030, 4034                                                                                                                   |
|    |    |    |    |    |    |    |    | 57 |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 | 72 | -              | *4031, 4045, 4080                                                                                                             |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *4038, 4052                                                                                                                   |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4046                                                                                                                         |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                | Well No.                                                                                                                      |

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| Well No.                                                                                                            |                | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|---------------------------------------------------------------------------------------------------------------------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *4047                                                                                                               | -              |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4048                                                                                                               | -              |    |    |    | 28 |    |    |    |    |    | 34 |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4058                                                                                                               | -              |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4059                                                                                                               | -              |    |    |    | 28 |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4060                                                                                                               | -              |    |    |    | 28 |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4068                                                                                                               | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4071                                                                                                               | -              |    |    | 27 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *407201, 407202, 4077                                                                                               | -              |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4074                                                                                                               | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4076                                                                                                               | -              |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4083                                                                                                               | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4093                                                                                                               | -              |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    | 40 |    |    |    |    |    |    |    | ?  |
| *4094                                                                                                               | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4095                                                                                                               | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4096                                                                                                               | -              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4098                                                                                                               | -              | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ?  |
| *4101, 4106, 4107                                                                                                   | B41            |    |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *410201                                                                                                             | B41            |    |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *410301, 410302                                                                                                     | B41            |    |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4104                                                                                                               | -              |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4105                                                                                                               | -              |    |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4108                                                                                                               | -              | 25 |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    | 38 |    |    |    |    |    |    |    |    | 48 |
| *4201, 4202, 4206, 4210, 4212                                                                                       | B42            |    |    |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4204                                                                                                               | -              |    |    |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *420501, 420502                                                                                                     | -              | 25 |    |    |    |    |    |    | 32 |    |    |    |    |    |    | 38 |    |    |    |    |    |    |    |    | 48 |
| *4208                                                                                                               | -              |    |    |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4209                                                                                                               | -              |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4211                                                                                                               | -              |    |    |    |    |    |    |    | 32 |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *44020101-440205, 440208, 4411, 4416, 4419N, 4421-4424, 4427, 4433, 4434, 4448, 4452N, 4455, 4459, 4463, 4466, 4467 | B44, B47, Null |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *440301-4405, 4413, 4426, 442801-4430, 4432, 4435, 4436, 4438, 4439, 4442, 4445, 4451, 4456N, 4458N, 4461N, 4469    | B44            |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4406                                                                                                               | B44            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4407                                                                                                               |                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4408                                                                                                               | B44            |    |    | w  |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| Well No.                                                                                                            |                | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61   | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                | Well No.                                                                                                            |
|----|----|----|----|----|----|----|----|----|----|----|----|------|----|----|----|----|----|----|----|----|----|----|----|----------------|---------------------------------------------------------------------------------------------------------------------|
| 49 |    |    |    |    |    |    |    |    |    |    |    | 62   |    |    |    |    |    |    |    |    | 70 |    |    | -              | *4047                                                                                                               |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    | 67 |    |    |    | 71 |    | -              | *4048                                                                                                               |
|    |    |    |    |    |    |    |    |    |    |    |    | 61   | 62 |    | 64 |    |    |    |    |    |    | 71 |    | -              | *4058                                                                                                               |
|    |    |    |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 | 72 | -              | *4059                                                                                                               |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *4060                                                                                                               |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61   |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4068                                                                                                               |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    | 65 |    | 67 |    |    |    | 71 |    | -              | *4071                                                                                                               |
|    |    |    |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *407201, 407202, 4077                                                                                               |
| 49 | 50 |    |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *4074                                                                                                               |
| 49 |    |    |    |    |    |    |    |    |    |    |    | 62   |    |    |    |    |    |    |    |    |    |    |    | -              | *4076                                                                                                               |
|    |    |    |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *4083                                                                                                               |
|    |    |    |    |    |    |    |    |    |    |    |    | 62   |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4093                                                                                                               |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61   | 62 | 63 |    |    |    |    |    |    |    | 71 |    | -              | *4094                                                                                                               |
|    | 50 |    |    |    |    |    |    |    | 59 |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *4095                                                                                                               |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 62   |    |    |    |    |    |    |    |    | 70 |    | -  | *4096          |                                                                                                                     |
|    | 50 |    |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 | 72 | -              | *4098                                                                                                               |
|    |    | 51 |    |    | 54 |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 |    | B41            | *4101, 4106, 4107                                                                                                   |
|    |    | 51 |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 | 72 | B41            | *410201                                                                                                             |
|    |    | 51 |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 |    | B41            | *410301, 410302                                                                                                     |
|    |    | 51 |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 | 72 | -              | *4104                                                                                                               |
|    |    | 51 |    |    | 54 |    |    |    |    |    |    | ? 62 |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4105                                                                                                               |
|    |    | 51 |    |    |    |    |    |    |    |    |    | 61   | 62 |    |    |    |    |    |    |    |    | 71 |    | -              | *4108                                                                                                               |
|    |    | 51 | 52 |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    | 71 | 72 | B42            | *4201, 4202, 4206, 4210, 4212                                                                                       |
|    |    | 51 | 52 |    | 54 |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4204                                                                                                               |
|    |    | 51 | 52 |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    | 71 | 72 | -              | *420501, 420502                                                                                                     |
|    |    |    | 52 |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    | 71 |    | -              | *4208                                                                                                               |
|    |    | 51 | 52 |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    | 71 | 72 | -              | *4209                                                                                                               |
|    |    | 51 |    |    |    |    |    |    |    |    |    | 62   |    |    |    |    |    |    |    |    |    | 71 | 72 | -              | *4211                                                                                                               |
|    |    |    |    | 53 |    |    |    |    |    |    |    | 62   | 63 |    |    |    |    |    |    |    | 70 |    |    | B44, B47, Null | *44020101-440205, 440208, 4411, 4416, 4419N, 4421-4424, 4427, 4433, 4434, 4448, 4452N, 4455, 4459, 4463, 4466, 4467 |
|    |    |    |    | 53 |    |    |    |    |    |    |    | 62   |    |    |    |    |    |    |    |    | 70 |    |    | B44            | *440301-4405, 4413, 4426, 442801-4430, 4432, 4435, 4436, 4438, 4439, 4442, 4445, 4451, 4456N, 4458N, 4461N, 4469    |
|    |    |    |    | 53 | 54 |    |    |    |    | 60 |    |      | 63 |    |    |    |    |    | 68 |    | 70 |    |    | B44            | *4406                                                                                                               |
|    |    |    |    | 53 |    |    |    |    |    |    |    | 62   |    |    |    |    |    |    |    |    | 70 |    |    |                | *4407                                                                                                               |
|    |    |    |    | 53 |    |    |    |    |    |    |    | 62   | 63 |    |    |    |    |    |    |    | 70 |    |    | B44            | *4408                                                                                                               |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61   | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                | Well No.                                                                                                            |

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| Well No.                                                  |     | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|-----------------------------------------------------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *4409                                                     | B12 |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4410                                                     | -   |    |    |    | 28 |    |    |    |    |    |    | 35 |    |    |    |    |    | 41 |    | 43 |    |    |    |    |    |
| *4412                                                     | -   |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4414                                                     | -   |    |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4415                                                     | -   |    |    |    | 28 |    |    |    | 32 |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4417, 4443                                               | -   |    |    |    | 28 |    |    |    |    |    |    |    | 36 | 37 |    |    |    | 41 |    |    |    |    |    |    |    |
| *4418                                                     | -   |    |    |    | 28 |    |    |    | 32 |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4420                                                     | -   |    |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4425, 4450                                               | -   |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4431                                                     | -   |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4437, 446401, 446402                                     | -   |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4440                                                     | -   |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    | 40 | 41 |    |    |    |    |    |    |    |
| *4441, 4453                                               | -   |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4444                                                     | -   |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    | 40 | 41 |    |    |    |    |    |    |    |
| *4446                                                     | -   |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4447, 4465                                               | -   |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4449                                                     | -   |    | 26 |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4454                                                     | -   |    |    | 27 | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4457                                                     | -   |    |    | w  |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4460                                                     | -   |    |    | 27 | 28 |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4462                                                     | -   |    |    |    | 28 |    |    |    | 32 | 33 |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *4501, 4505, 4507                                         | B45 |    |    |    | 28 |    |    |    | 32 |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4502, 4503                                               | -   |    |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4504                                                     | -   |    |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4506                                                     | -   |    |    |    | 28 |    |    |    | 32 |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4508                                                     | -   |    |    |    | 28 |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4509                                                     | -   |    |    |    | 28 |    |    |    | 32 |    |    |    | 36 | 37 |    |    |    |    |    |    |    |    |    |    | 48 |
| *460101, 460102, 4604, 4605, 4607N, 4609, 4610, 4614-4616 | B46 |    |    |    |    |    |    |    | 31 |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *4602                                                     | -   |    |    |    |    |    |    |    | 31 |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *4603, 4608, 461301, 461302, 4619, 4621                   | -   |    |    |    |    |    |    |    | 31 |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *4606                                                     | -   |    |    |    |    |    |    |    | 31 |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *4611                                                     | -   |    |    |    |    |    |    |    | 31 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4612                                                     | -   |    |    | 27 |    |    |    |    | 31 |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *4617                                                     | -   |    |    |    |    |    |    |    | 31 |    |    |    | 36 | 37 |    |    |    |    |    |    |    |    |    |    |    |
| *4618                                                     | -   |    |    |    |    |    |    |    | 31 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *47010101, 47010102                                       | B47 |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4702                                                     | -   |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4703                                                     | -   |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4704, 4705                                               | -   |    |    |    | 28 | 29 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                                                  |     | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |     | Well No.                                                  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----------------------------------------------------------|
|    |    |    |    | 53 |    |    |    |    |    |    |    | 61 | 62 | 63 |    |    |    |    |    |    | 71 |    |    | B12 | *4409                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    | 65 |    |    |    |    | 70 |    |    | -   | *4410                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    |    | 63 |    |    |    |    |    |    | 70 |    |    | -   | *4412                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4414                                                     |
|    |    |    |    |    | 54 |    |    |    |    |    |    |    | 62 |    |    | 65 |    |    |    |    | 70 |    |    | -   | *4415                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4417, 4443                                               |
|    |    |    |    |    | 54 |    |    |    | 58 |    |    |    | 62 |    |    | 65 |    |    |    |    | 70 |    |    | -   | *4418                                                     |
|    |    |    |    | 53 | 54 |    |    |    |    |    |    |    | 62 | 63 |    |    |    |    |    |    | 70 |    |    | -   | *4420                                                     |
|    |    |    |    | 53 |    |    |    |    | 58 | 60 |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4425, 4450                                               |
| 49 |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4431                                                     |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4437, 446401, 446402                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4440                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 | 63 |    |    |    |    |    |    | 70 |    |    | -   | *4441, 4453                                               |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 | 63 |    |    |    |    |    |    | 70 |    |    | -   | *4444                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    | 71 |    |    | -   | *4446                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4447, 4465                                               |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 | 63 |    |    |    |    |    |    | 70 |    |    | -   | *4449                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4454                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4457                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4460                                                     |
|    |    |    |    | 53 |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4462                                                     |
|    |    |    |    |    | 54 |    |    |    |    |    |    | 61 | 62 |    |    | 65 |    |    |    |    | 71 |    |    | B45 | *4501, 4505, 4507                                         |
|    |    |    |    |    | 54 |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    | 71 |    |    | -   | *4502, 4503                                               |
|    |    |    |    |    | 54 |    |    |    |    |    |    | 61 | 62 |    |    | 65 |    |    |    |    | 71 |    |    | -   | *4504                                                     |
|    |    |    | 52 |    | 54 |    |    |    |    |    |    | 61 | 62 |    |    | 65 |    |    |    |    | 71 |    |    | -   | *4506                                                     |
|    |    |    |    |    | 54 |    |    |    |    |    |    | 61 | 62 | 64 |    |    |    |    |    |    | 71 |    |    | -   | *4508                                                     |
|    |    |    |    |    | 54 |    |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    | 71 |    |    | -   | *4509                                                     |
|    |    |    | 52 |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    |    |    | 69 | 71 |    |    | B46 | *460101, 460102, 4604, 4605, 4607N, 4609, 4610, 4614-4616 |
|    |    |    | w  |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    |    |    | 69 | 71 |    |    | -   | *4602                                                     |
|    |    |    | 52 |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    |    | -   | *4603, 4608, 461301, 461302, 4619, 4621                   |
| 49 |    |    | 52 |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    |    | -   | *4606                                                     |
|    |    |    | 52 |    |    | 55 |    |    |    |    |    |    |    |    |    | 65 |    |    |    |    | 71 |    |    | -   | *4611                                                     |
|    |    |    | 52 |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    |    |    | 69 | 71 |    |    | -   | *4612                                                     |
|    |    |    | 52 |    |    | 55 |    |    |    |    |    |    |    |    |    |    |    |    |    | 69 | 71 |    |    | -   | *4617                                                     |
|    |    |    | 52 |    |    | 55 |    |    |    |    |    |    |    |    | 64 |    |    |    |    |    | 71 |    |    | -   | *4618                                                     |
|    |    |    |    |    |    | 56 |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | B47 | *47010101, 47010102                                       |
|    |    |    |    |    |    | 56 |    |    |    |    |    | 61 | 62 |    |    |    |    |    |    |    | 71 |    |    | -   | *4702                                                     |
|    |    |    |    |    |    | 56 |    |    |    |    |    | w  | 62 |    |    |    |    |    |    |    | 70 | w  |    | -   | *4703                                                     |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -   | *4704, 4705                                               |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |     | Well No.                                                  |

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| Well No.                                                                                                                                                                                                           |                         | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *480101, 480102, 4807, 4809, 4811, 4819                                                                                                                                                                            | B48                     |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4802                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    |    |    |    | 35 | 36 |    |    |    |    | 41 |    |    |    |    |    |    | 48 |
| *480301, 480302                                                                                                                                                                                                    | B48                     |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4804                                                                                                                                                                                                              | B48                     |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4805, 4808                                                                                                                                                                                                        | B48                     | 25 |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4806                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4810, 4812, 4817                                                                                                                                                                                                  | -                       |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4813                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4814                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    |    |    |    | 35 | 36 |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4815                                                                                                                                                                                                              | -                       | 25 |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4816                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *4818                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *490101                                                                                                                                                                                                            | B49                     |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *490102                                                                                                                                                                                                            | -                       |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4902                                                                                                                                                                                                              | -                       |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4903                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *4904, 4905                                                                                                                                                                                                        | -                       |    |    |    | 28 |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5001, 5004                                                                                                                                                                                                        | B50                     |    |    |    | 28 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *5002                                                                                                                                                                                                              | B45                     |    |    |    | 28 |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *510101, 510103, 510105-510108, 510201, 510203, 5103, 5107, 510901, 5111N, 5112, 511302, 5114, 5117-5119, 5122, 5123, 5126-5130, 5132, 5133, 5138-5141N, 5143, 5148, 5149, 5151-5153, 5155, 5157, 5158, 5160, 5165 | B51, B5102, B5103, Null |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *510102, 510109, 510202, 5105, 510902                                                                                                                                                                              | B51                     |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *510104, 510204, 511301, 5116, 5121, 512401, 512402, 5131, 5134, 5135                                                                                                                                              | B51, B52                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5104, 5146, 5156                                                                                                                                                                                                  | B51                     |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5106, 5159                                                                                                                                                                                                        | B51                     |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5108, 5120, 5144N                                                                                                                                                                                                 | B51                     |    |    |    |    |    |    |    | 32 | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5110                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5115                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5136                                                                                                                                                                                                              | -                       |    |    |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                                                                                                                                                                                                           |                         | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                         | Well No.                                                                                                                                                                                                           |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |    |    |    |    |    |    |    | 57 |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 | 72 | B48                     | *480101, 480102, 4807, 4809, 4811, 4819                                                                                                                                                                            |
| 49 |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -                       | *4802                                                                                                                                                                                                              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | B48                     | *480301, 480302                                                                                                                                                                                                    |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | B48                     | *4804                                                                                                                                                                                                              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 | 72 | B48                     | *4805, 4808                                                                                                                                                                                                        |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -                       | *4806                                                                                                                                                                                                              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 | 72 | -                       | *4810, 4812, 4817                                                                                                                                                                                                  |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -                       | *4813                                                                                                                                                                                                              |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 62 |    |    |    |    |    |    |    |    | 71 | 72 | -                       | *4814                                                                                                                                                                                                              |
|    |    |    |    |    |    |    |    | 57 |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 71 | 72 | -                       | *4815                                                                                                                                                                                                              |
|    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -  | *4816                   |                                                                                                                                                                                                                    |
|    |    |    |    |    |    |    | 57 |    |    |    |    |    | 62 |    |    |    |    |    |    |    | 70 | 72 | -  | *4818                   |                                                                                                                                                                                                                    |
|    |    |    |    |    |    |    |    | 58 | 59 |    |    |    | 62 |    |    | 65 |    |    |    |    | 70 |    |    | B49                     | *490101                                                                                                                                                                                                            |
|    |    |    |    |    |    |    |    | 58 |    |    |    |    | 62 |    |    | 65 |    |    |    |    | 70 |    |    | -                       | *490102                                                                                                                                                                                                            |
|    |    |    |    |    |    |    |    |    | 59 |    |    |    | 62 |    |    | 65 |    |    |    |    | 70 |    |    | -                       | *4902                                                                                                                                                                                                              |
|    |    |    |    |    |    |    |    |    | 59 |    |    |    | 62 |    |    | 65 |    |    |    |    | 70 |    |    | -                       | *4903                                                                                                                                                                                                              |
|    |    |    |    |    |    |    |    | 58 | 59 |    |    |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -                       | *4904, 4905                                                                                                                                                                                                        |
|    |    |    |    |    |    |    |    |    | 59 |    |    | 61 | 62 |    |    | 65 |    |    |    |    |    | 71 |    | B50                     | *5001, 5004                                                                                                                                                                                                        |
|    |    |    |    |    |    |    |    |    | 59 |    |    | 61 | 62 |    |    | 65 |    |    |    |    |    | 71 |    | B45                     | *5002                                                                                                                                                                                                              |
|    |    |    |    |    | 54 |    |    |    |    | 59 | 60 |    |    |    |    |    |    | 68 |    |    | 70 |    |    | B51, B5102, B5103, Null | *510101, 510103, 510105-510108, 510201, 510203, 5103, 5107, 510901, 5111N, 5112, 511302, 5114, 5117-5119, 5122, 5123, 5126-5130, 5132, 5133, 5138-5141N, 5143, 5148, 5149, 5151-5153, 5155, 5157, 5158, 5160, 5165 |
|    |    |    |    |    |    |    |    |    |    | 59 | 60 |    |    |    |    |    |    | 68 |    |    | 70 |    |    | B51                     | *510102, 510109, 510202, 5105, 510902                                                                                                                                                                              |
|    |    |    |    |    | 54 |    |    |    |    | 59 | 60 |    |    |    |    |    |    | 68 |    |    | 70 |    |    | B51, B52                | *510104, 510204, 511301, 5116, 5121, 512401, 512402, 5131, 5134, 5135                                                                                                                                              |
|    |    |    |    |    | 54 | 55 |    |    |    |    | 60 |    |    |    |    |    |    | 68 |    |    | 70 |    |    | B51                     | *5104, 5146, 5156                                                                                                                                                                                                  |
|    |    |    |    |    | 54 |    |    |    |    |    | 60 |    |    |    |    |    |    | 68 |    |    | 70 |    |    | B51                     | *5106, 5159                                                                                                                                                                                                        |
|    |    |    |    |    | 54 |    |    |    |    | 59 | 60 |    |    |    |    |    |    | 68 |    |    | 70 |    |    | B51                     | *5108, 5120, 5144N                                                                                                                                                                                                 |
|    |    |    |    |    | 54 |    |    |    |    |    | 60 |    |    |    |    |    |    | 68 |    |    | 70 |    |    | -                       | *5110                                                                                                                                                                                                              |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    | 65 |    | 68 |    |    | 70 |    |    | -                       | *5115                                                                                                                                                                                                              |
|    |    |    |    |    | 54 |    |    |    |    | 59 | 60 |    |    |    |    |    |    | 68 |    |    | 70 |    |    | -                       | *5136                                                                                                                                                                                                              |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                         | Well No.                                                                                                                                                                                                           |

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| Well No.                                                                |             | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|-------------------------------------------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *5137, 5163                                                             | -           |    |    |    |    |    |    |    |    | 33 |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5142                                                                   | -           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5145                                                                   | -           |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5150, 5154                                                             | -           |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5161                                                                   | -           |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5162                                                                   | -           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5164                                                                   | -           |    |    | 27 |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *520101, 520103,<br>5204, 5205, 5207,<br>5210-5213                      | B52         |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *520102, 520104-5203,<br>520601, 520602, 5209                           | B52         |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5208, 5214                                                             | -           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *530101-530104, 5305,<br>5308, 5310, 5316,<br>5318                      | B53         |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5302                                                                   | B53         |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5303, 5309, 5311-<br>5313                                              | -           |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5304, 5307                                                             | -           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5306                                                                   | B53         |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5314                                                                   | -           |    |    | 27 |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5315                                                                   | -           |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5317                                                                   |             |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5401, 5402, 5405N,<br>5407, 5408N, 5410,<br>5413, 5416-5419            | B54         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5403                                                                   | -           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5404, 5411, 5415                                                       | -           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5406                                                                   | -           |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5409, 5414                                                             | -           |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5412                                                                   | -           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *550101-550104, 5503,<br>5505, 5511, 5515,<br>5525, 5529, 5531,<br>5533 | B55         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *550201-550203, 5507,<br>5510, 5512, 5516,<br>5519, 5526, 5530          | B54,<br>B55 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                                                                |             | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |             | Well No.                                                                |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------|-------------------------------------------------------------------------|
|    |    |    |    |    | 54 |    |    |    |    | 59 | 60 |    |    |    |    |    |    |    | 68 |    | 70 |    |    | -           | *5137, 5163                                                             |
|    |    |    |    |    | 53 | 54 |    |    |    |    | 60 |    |    |    |    |    |    |    | 68 |    | 70 |    |    | -           | *5142                                                                   |
|    |    |    |    |    |    | 54 |    |    |    |    | 60 |    |    |    |    |    |    |    | 68 |    | 70 |    |    | -           | *5145                                                                   |
|    |    |    |    |    |    |    |    |    |    | 59 |    |    |    |    |    |    |    |    | 68 |    | 70 |    |    | -           | *5150, 5154                                                             |
|    |    |    |    |    |    | 54 |    |    |    | w  | 60 |    |    |    |    |    |    |    | 68 | 69 | 70 |    |    | -           | *5161                                                                   |
|    |    |    |    |    |    | 54 |    |    |    |    | 60 |    |    |    |    | 65 |    | 67 | 68 |    | 70 |    |    | -           | *5162                                                                   |
|    |    |    |    |    |    | 54 |    |    |    |    | 60 |    |    |    |    |    |    |    | 68 |    | 70 |    |    | -           | *5164                                                                   |
|    |    |    |    |    |    |    |    |    |    | 59 | 60 |    | 62 |    |    |    |    |    |    |    | 70 |    |    | B52         | *520101, 520103,<br>5204, 5205, 5207,<br>5210-5213                      |
|    |    |    |    |    |    | 54 |    |    |    | 59 | 60 |    | 62 |    |    |    |    |    |    |    | 70 |    |    | B52         | *520102, 520104-5203,<br>520601, 520602, 5209                           |
|    |    |    |    |    |    |    |    |    |    | 59 | 60 |    | 62 |    |    |    |    |    |    |    | 70 |    |    | -           | *5208, 5214                                                             |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    |    | 68 |    | 70 |    |    | B53         | *530101-530104, 5305,<br>5308, 5310, 5316,<br>5318                      |
|    |    |    |    |    |    | 55 |    |    |    |    | 60 |    |    |    |    |    |    |    | 68 |    | 70 |    |    | B53         | *5302                                                                   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 68 |    | 70 |    |    | -           | *5303, 5309, 5311-<br>5313                                              |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    |    | 68 |    | 70 |    |    | -           | *5304, 5307                                                             |
|    |    |    |    |    |    | 54 | 55 |    |    |    | 60 |    |    |    |    |    |    |    | 68 |    | 70 |    |    | B53         | *5306                                                                   |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    |    | 68 |    | 70 |    |    | -           | *5314                                                                   |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    |    | 68 |    | 70 | 72 |    | -           | *5315                                                                   |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    | 62 |    |    |    |    |    |    |    | 70 |    |    |             | *5317                                                                   |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 63 | 64 |    |    |    |    |    |    |    | 71 |    | B54         | *5401, 5402, 5405N,<br>5407, 5408N, 5410,<br>5413, 5416-5419            |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 63 |    |    | 65 |    |    |    |    |    | 71 |    | -           | *5403                                                                   |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 63 |    |    |    |    |    |    |    |    | 71 |    | -           | *5404, 5411, 5415                                                       |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 63 |    |    |    |    |    |    | 69 |    | 71 |    | -           | *5406                                                                   |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    | 63 |    |    |    |    |    |    |    |    | 71 |    | -           | *5409, 5414                                                             |
|    |    |    | 52 |    |    |    | 56 |    | 58 |    |    |    | 63 | 64 |    |    |    |    |    |    |    | 70 |    | -           | *5412                                                                   |
|    |    |    | 52 |    |    |    | 56 |    |    | 59 |    |    |    | 64 |    |    |    |    |    |    |    | 71 |    | B55         | *550101-550104, 5503,<br>5505, 5511, 5515,<br>5525, 5529, 5531,<br>5533 |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    | 64 |    |    |    |    |    |    |    | 71 |    | B54,<br>B55 | *550201-550203, 5507,<br>5510, 5512, 5516,<br>5519, 5526, 5530          |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |             | Well No.                                                                |

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| Well No.                                            |     | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|-----------------------------------------------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *5504, 5508, 5513, 5527, 5615, 5619N, 5622          | B55 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5509, 5524                                         | -   |    |    |    |    |    |    |    |    |    | 34 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5514                                               | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5517, 5528                                         | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5518                                               | -   |    |    |    |    |    |    |    |    |    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5520                                               | -   |    |    |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5521                                               | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5522                                               | -   |    |    |    |    |    |    |    |    |    | 34 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5523, 5532, 5618                                   | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5534                                               | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5535                                               | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5601, 5608, 5614, 5616, 5620, 5624                 | B56 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5602, 5604                                         | B56 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5603                                               | B22 |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *560501                                             | -   |    |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *560502                                             | -   |    |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5606                                               | B78 |    |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |
| *5607                                               | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5609                                               | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5610                                               | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5611, 5612                                         | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5613                                               | -   |    |    |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5617                                               | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5621                                               | -   |    |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5623                                               | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *570101-570103, 5706, 5708, 5710, 5715, 5718, 5719  | B57 |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5702-5705, 5717                                    | B57 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5707                                               | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5709                                               | -   |    |    |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5711, 5713                                         | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5712                                               | -   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5714                                               | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5716                                               | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *580101, 580102, 5804, 5805, 5810N-5815, 5819, 5821 | B58 |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5802, 5806, 5816                                   | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5807                                               | B58 |    |    |    |    |    |    |    |    |    |    |    | 36 | 37 |    |    |    |    |    |    |    |    |    |    |    |
| *5808                                               | -   |    |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5809                                               | -   |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| Well No.                                            |     | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |     | Well No.                                                   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------------------------------------------------------------|
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B55 | *5504, 5508, 5513,<br>5527, 5615, 5619N,<br>5622           |
|    |    |    | 52 |    |    |    | 56 |    |    | 59 |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *5509, 5524                                                |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    | 66 |    |    |    |    |    | 71 |    | -   | *5514                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    | 59 |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *5517, 5528                                                |
|    |    |    |    |    |    |    |    |    |    |    |    | 62 |    | 64 |    |    |    |    |    |    |    | 71 |    | -   | *5518                                                      |
|    |    | 51 | 52 |    | 54 |    | 56 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *5520                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    | w  |    |    |    | 64 |    |    |    |    |    | 69 |    | 71 |    | -   | *5521                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *5522                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *5523, 5532, 5618                                          |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    | 62 |    | 64 |    |    |    |    |    |    |    | 71 |    | -   | *5534                                                      |
|    |    |    | 52 |    |    |    | 56 | w  |    |    |    |    |    | 64 |    |    |    |    |    |    |    | 71 |    | -   | *5535                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    | 65 |    |    |    |    |    | 71 |    | B56 | *5601, 5608, 5614,<br>5616, 5620, 5624                     |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    | 65 |    | 67 |    |    |    | 71 |    | B56 | *5602, 5604                                                |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |    |    | 69 |    | 71 |    | B22 | *5603                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    | 59 |    |    |    | 64 |    |    |    |    |    |    |    | 71 |    | -   | *560501                                                    |
|    |    |    | 52 |    |    |    | 56 |    |    | 59 |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *560502                                                    |
|    |    |    | 52 |    |    |    | 56 |    |    | 59 |    |    |    | 64 |    |    |    |    | w  |    |    | 71 |    | B78 | *5606                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    | 65 |    |    |    |    | 70 |    |    | -   | *5607                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *5609                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    | 64 |    |    |    | 67 |    |    |    | 71 |    | -   | *5610                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -   | *5611, 5612                                                |
|    |    |    | 52 |    | 54 |    | 56 |    |    |    |    |    |    |    |    | 65 |    |    |    |    |    | 71 |    | -   | *5613                                                      |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 65 |    |    |    |    |    | 71 |    | -   | *5617                                                      |
|    |    |    | 52 |    |    |    | 56 |    |    | 58 | 59 |    |    |    |    |    |    |    |    |    |    | 70 |    | -   | *5621                                                      |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    | 64 |    |    |    |    |    |    |    | 71 |    | -   | *5623                                                      |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    | 66 |    |    |    |    | 70 |    | B57 | *570101-570103, 5706,<br>5708, 5710, 5715,<br>5718, 5719   |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    | 66 |    |    |    |    | 70 |    | B57 | *5702-5705, 5717                                           |
|    |    |    |    |    | 53 |    |    |    |    |    | 60 |    |    |    |    |    | 66 |    |    |    |    | 70 |    | -   | *5707                                                      |
|    |    |    |    |    | 53 |    |    |    |    |    | 60 |    |    |    |    |    | 66 |    |    |    |    | 70 |    | -   | *5709                                                      |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    | 66 |    |    |    |    | 70 |    | -   | *5711, 5713                                                |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 66 |    |    |    |    | 71 |    | -   | *5712                                                      |
|    |    |    |    |    |    |    | 55 |    |    |    | 60 |    |    |    |    |    | 66 |    |    |    |    | 70 |    | -   | *5714                                                      |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    |    |    |    |    | 70 |    | -   | *5716                                                      |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    | 67 |    |    |    | 70 |    | B58 | *580101, 580102,<br>5804, 5805, 5810N-<br>5815, 5819, 5821 |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    | 67 |    |    |    | 70 |    | -   | *5802, 5806, 5816                                          |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    | 67 |    |    |    | 70 |    | B58 | *5807                                                      |
|    |    |    |    |    | 54 |    |    |    |    | 59 | 60 |    |    |    |    |    |    | 67 |    |    |    | 70 |    | -   | *5808                                                      |
|    |    |    |    |    |    | 55 |    |    |    |    | 60 |    |    |    |    |    |    | 67 |    |    |    | 70 |    | -   | *5809                                                      |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |     | Well No.                                                   |

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| Well No.                  |                   | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|---------------------------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *5817N                    | -                 |    |    |    |    |    |    |    |    |    |    |    | 36 |    |    |    |    | 41 |    |    |    |    |    |    |    |
| *5818                     |                   |    |    | 27 |    |    |    |    |    |    |    |    | 36 |    |    |    |    |    |    |    |    |    |    |    |    |
| *5820                     |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    |    |    |
| *5901, 5905               | B59               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5902, 5903               | -                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *5904                     | -                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *670101                   | B67               |    |    |    |    | 29 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    |    | 48 |
| *670102                   | -                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    |    | 48 |
| *6702                     |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 45 |    |    | 48 |
| *7301                     | B73               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *7801, 780202, 7803       | B78               |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *780201, 7804             | B78               |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *7805                     | -                 |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |    |
| *7806                     | -                 |    |    |    |    |    |    |    |    | 33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *8101                     | B81               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *8102                     | -                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |
| *8103, 8104N              | -                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *8201, 8202               | -                 |    |    |    |    |    |    |    | 32 |    |    | 35 |    |    |    |    |    |    | 43 |    |    |    |    |    |    |
| *8301                     | -                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |
| HLA-B allele <sup>4</sup> | ser. <sup>5</sup> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                  |                   | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| Cw*0206                   |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Cw*0223                   |                   | 25 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Cw*0305, 0325, 0327       |                   |    |    | 27 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Cw*0620                   |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Cw*0746                   |                   |    |    |    |    |    |    |    | 32 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Cw*150204                 |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                  |                   | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                   | Well No.                  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 67 |    |    | 70 |    |    | -                 | *5817N                    |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    | 67 |    |    | 70 |    |    |                   | *5818                     |
|    |    |    |    |    |    |    |    |    |    |    | 60 |    |    |    |    |    |    | 67 |    |    | 70 |    |    |                   | *5820                     |
|    |    |    |    |    |    |    |    |    | 58 |    |    |    |    |    | 64 |    |    |    |    |    | 70 |    |    | B59               | *5901, 5905               |
|    |    |    |    |    |    |    |    |    | 58 |    |    |    |    |    |    |    |    |    |    |    | 70 |    |    | -                 | *5902, 5903               |
|    |    |    |    |    |    |    |    |    | 58 |    |    |    |    |    |    | 65 |    |    |    |    | 70 |    |    | -                 | *5904                     |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | B67               | *670101                   |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    | -                 | *670102                   |
|    |    |    | w  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 |    |                   | *6702                     |
|    |    |    | 52 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 69 |    | 71 |    | B73               | *7301                     |
|    |    |    |    |    |    |    |    |    |    | 59 |    |    |    |    | 64 |    |    |    | 68 |    |    | 71 |    | B78               | *7801, 780202, 7803       |
|    |    |    |    |    |    |    |    |    |    | 59 |    |    |    |    |    |    |    |    | 68 |    |    | 71 |    | B78               | *780201, 7804             |
|    |    |    |    |    |    |    |    |    |    | 59 |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -                 | *7805                     |
|    |    |    |    |    |    |    |    |    |    | 59 |    |    | 62 |    |    |    |    |    |    |    |    | 71 |    | -                 | *7806                     |
|    |    |    | 52 |    |    |    | 56 | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | B81               | *8101                     |
|    |    |    | 52 |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *8102                     |
|    |    |    | 52 |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    | 71 | 72 | -                 | *8103, 8104N              |
|    |    |    | 52 |    |    |    | 56 |    |    |    |    |    |    |    |    | 65 |    |    |    |    |    | 71 |    | -                 | *8201, 8202               |
|    |    |    | 52 | 53 |    |    | 56 |    |    |    |    |    |    | 63 |    |    |    |    |    |    |    | 71 |    | -                 | *8301                     |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ser. <sup>5</sup> | HLA-B allele <sup>4</sup> |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                   | Well No.                  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | w  |    |    |    |    |    |                   | Cw*0206                   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   | Cw*0223                   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   | Cw*0305, 0325, 0327       |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 69 |    |    |                   | Cw*0620                   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   | Cw*0746                   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 64 |    |    |    |    |    |    |    |    |                   | Cw*150204                 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |                   | Well No.                  |

Lot No.: **23G**

Lot-specific information

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<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells. Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B low resolution typing.

In addition, wells number 29, 30, 34, 41, 44, 45, 54, 59, 66 and 72 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

<sup>2</sup>The nucleotide position, in the 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> exon or in the 1<sup>st</sup> intron, 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, in the 2<sup>nd</sup>, or 3<sup>rd</sup> exon or the 1<sup>st</sup> or 3<sup>rd</sup> introns, 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.

<sup>4</sup>The sequence of the B\*0701 allele has been shown to be in error.

The sequence of the B\*1305 allele has been shown to be identical to B\*1304.

The B\*1324 allele has been renamed B\*132202

The B\*150105 allele has been corrected and renamed B\*9520

The B\*1522 allele has been renamed B\*3543.

The sequence of the B\*1541 allele has been shown to be identical to B\*1539.

The B\*1559 allele has been renamed B\*3544.

The sequence of the B\*1816 allele has been shown to be identical to B\*1814.

The sequence of the B\*27051 allele has been shown to be identical to B\*270502.

The sequence of the B\*2722 allele has been shown to be identical to the corrected B\*2706 sequence.

The B\*3573 allele has been renamed B\*350803.

The sequence of the B\*39012 allele has been shown to be identical to B\*390101.

The sequence of the B\*3921 allele has been shown to be identical to B\*3924.

The sequence of the B\*4017 allele has been shown to be identical to B\*4016.

The sequence of the B\*4041 allele has been shown to be identical to B\*4040.

The sequence of the B\*4203 allele has been shown to be in error.

The sequence of the B\*4401 allele has been shown to be identical to B\*4402.

The sequence of the B\*5003 allele has been shown to be identical to B\*5002.

The sequence of the B\*5125 allele has been shown to be identical to B\*5122.

The B\*5147 allele has been renamed B\*510902.

The sequence of the B\*5506 allele has been shown to be identical to B\*5504.

The sequence of the B\*5803 allele has never been assigned.

The B\*7901 allele has been renamed B\*1518.

The B\*9530 allele has been renamed B\*152702.

The B\*0826 and the B\*4207 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*1408 and the B\*3925N, B\*3930, B\*3932 to 3934, 3947 and 3950 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*1829 and the B\*3532, B\*3537, B\*3553N, B\*3564, B\*356801-356802 and 3599 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*5504, B\*5508, B\*5513, B\*5527 and the B\*5615, B\*5619N and B\*5622 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*5523, B\*5532 and the B\*5618 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

<sup>5</sup>The serological reactivity of all HLA-B alleles is not known. In this table we use the information in the HLA Dictionary 2004 on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site and the information available at the [www.worldmarrow.org](http://www.worldmarrow.org) web site and have also inferred the serological grouping from the naming of the sequence-defined allele.

'ser', serological HLA specificity.

'w', might be weakly amplified.

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

| INTERPRETATION TABLE                                         |    |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |
|--------------------------------------------------------------|----|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|
| DR low resolution SSP typing                                 |    |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |
| Amplification patterns of the DRB1*0101 to DRB1*1003 alleles |    |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |
|                                                              |    | Well                 |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |
|                                                              |    | 73                   | 74                   | 75                   | 76                   | 77                   | 78                   | 79                   | 80                   | 81                   | 82                   | 83                   | 84                   | 85                   | 86                   | 87                   | 88                   | 89                   | 90                   | 91                   | 92                   | 93                   | 94                   | 95                   |  |
| Length of spec.                                              |    | 205                  | 200                  | 215                  | 210                  | 120                  | 80                   | 85                   | 100                  | 205                  | 170                  | 85                   | 205                  | 100                  | 85                   | 210                  | 195                  | 175                  | 100                  | 110                  | 110                  | 165                  | 215                  | 175                  |  |
| PCR product(s)                                               |    |                      |                      | 260                  |                      | 220                  | 210                  | 210                  | 175                  | 230                  | 215                  | 135                  |                      | 170                  | 105                  |                      | 210                  |                      | 140                  | 135                  | 175                  | 240                  |                      |                      |  |
|                                                              |    |                      |                      |                      |                      |                      |                      |                      |                      |                      | 250                  | 180                  |                      |                      |                      |                      |                      |                      |                      | 170                  | 225                  |                      |                      |                      |  |
| Length of int. pos control <sup>1</sup>                      |    | 515                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 515                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  | 430                  |  |
| 5'-primer(s) <sup>2</sup>                                    |    | 5'-gAA 3'<br>14(129) | 5'-gAA 3'<br>14(129) | 5'-Agg 3'<br>13(126) | 5'-Agg 3'<br>13(126) | 5'-gTC 3'<br>13(125) | 5'-gTC 3'<br>13(125) | 5'-gTC 3'<br>13(125) | 5'-ACA 3'<br>13(125) | 5'-ATA 3'<br>14(127) | 5'-gTT 3'<br>16(133) | 5'-TAT 3'<br>26(165) | 5'-gCg 3'<br>31(178) | 5'-gTC 3'<br>13(125) | 5'-gTT 3'<br>16(133) | 5'-gCT 3'<br>10(116) | 5'-gCT 3'<br>10(116) | 5'-gTC 3'<br>13(125) | 5'-gTA 3'<br>37(197) | 5'-gTA 3'<br>26(164) | 5'-gTC 3'<br>13(125) | 5'-gCT 3'<br>10(116) | 5'-gAT 3'<br>28(170) | 5'-gTA 3'<br>13(125) |  |
|                                                              |    |                      |                      | 5'-AAg 3'<br>13(126) | 5'-AAg 3'<br>13(126) | 5'-gTT 3'<br>47(227) | 5'-gTT 3'<br>16(133) |                      | 5'-ACC 3'<br>13(125) | 5'-ATA 3'<br>14(127) | 5'-gTT 3'<br>16(133) | 5'-gAg 3'<br>58(261) |                      | 5'-gTC 3'<br>16(133) |                      | 5'-gTC 3'<br>13(125) | 5'-gTC 3'<br>13(125) |                      | 5'-gTT 3'<br>37(197) | 5'-Cag 3'<br>34(189) | 5'-Cag 3'<br>34(189) | 5'-gCT 3'<br>10(116) |                      | 5'-gTA 3'<br>13(125) |  |
|                                                              |    |                      |                      |                      |                      |                      |                      |                      | 5'-ATA 3'<br>13(125) | 5'-gTT 3'<br>16(133) |                      |                      |                      | 5'-CgT 3'<br>38(200) |                      |                      | 5'-gTT 3'<br>16(133) |                      |                      |                      |                      |                      |                      |                      |  |
|                                                              |    |                      |                      |                      |                      |                      |                      |                      | 5'-gTC 3'<br>13(125) |                      |                      |                      |                      |                      |                      |                      | 5'-gTC 3'<br>16(133) |                      |                      |                      |                      |                      |                      |                      |  |
|                                                              |    |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |
|                                                              |    |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |
|                                                              |    |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |
| 3'-primer(s) <sup>3</sup>                                    |    | 5'-gAg 3'<br>67(286) | 5'-gAT 3'<br>67(286) | 5'-CTg 3'<br>70(295) | 5'-gAA 3'<br>67(286) | 5'-ggC 3'<br>73(305) | 5'-ggT 3'<br>26(164) | 5'-CTC 3'<br>28(171) | 5'-gTg 3'<br>33(184) | 5'-CTC 3'<br>71(298) | 5'-CCT 3'<br>58(260) | 5'-CgA 3'<br>57(257) | 5'-CAC 3'<br>86(344) | 5'-CCT 3'<br>58(260) | 5'-gTg 3'<br>30(175) | 5'-gTC 3'<br>70(295) | 5'-gAA 3'<br>67(286) | 5'-Cgg 3'<br>58(260) | 5'-Cag 3'<br>57(257) | 5'-Cag 3'<br>57(257) | 5'-Cag 3'<br>57(257) | 5'-CCC 3'<br>51(239) | 5'-CTC 3'<br>87(346) | 5'-gCg 3'<br>57(258) |  |
|                                                              |    | 5'-gAg 3'<br>67(286) |                      | 5'-CgC 3'<br>71(298) | 5'-gAg 3'<br>67(286) | 5'-ggC 3'<br>73(305) | 5'-gCT 3'<br>71(299) | 5'-CTg 3'<br>70(295) | 5'-Cgg 3'<br>58(260) | 5'-ggC 3'<br>73(305) | 5'-Cag 3'<br>74(307) | 5'-ggC 3'<br>73(305) | 5'-CCA 3'<br>86(344) | 5'-CCT 3'<br>58(260) | 5'-Cag 3'<br>38(199) | 5'-gCT 3'<br>71(299) | 5'-CgC 3'<br>71(298) | 5'-Cag 3'<br>58(260) | 5'-CgC 3'<br>71(298) | 5'-CTg 3'<br>70(295) | 5'-gTg 3'<br>60(265) | 5'-AAT 3'<br>77(317) |                      | 5'-CCT 3'<br>58(260) |  |
|                                                              |    | 5'-gCg 3'<br>71(299) |                      | 86(344)              | 72(303)              | 74(308)              |                      |                      |                      | 77(317)              | 86(344)              | 78(319)              |                      | 58(260)              |                      |                      | 71(298)              |                      |                      | 70(296)              | 70(296)              |                      |                      |                      |  |
|                                                              |    |                      | 5'-CCA 3'            |                      | 5'-gCg 3'            | 5'-CCC 3'            |                      |                      |                      | 5'-AAT 3'            | 5'-CAC 3'            | 5'-CAC 3'            |                      | 5'-CCT 3'            |                      |                      | 5'-CTC 3'            |                      |                      | 5'-TCC 3'            | 5'-TCC 3'            |                      |                      |                      |  |
|                                                              |    |                      |                      |                      |                      |                      |                      |                      |                      | 5'-CAC 3'<br>78(319) |                      |                      |                      |                      |                      |                      |                      |                      |                      | 5'-Cag 3'<br>74(307) |                      |                      |                      |                      |  |
| Well No.                                                     | DR | 73                   | 74                   | 75                   | 76                   | 77                   | 78                   | 79                   | 80                   | 81                   | 82                   | 83                   | 84                   | 85                   | 86                   | 87                   | 88                   | 89                   | 90                   | 91                   | 92                   | 93                   | 94                   | 95                   |  |

Lot No.: **23G**

Lot-specific information

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| Well No.                                                                                                                        | DR                     | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>DRB1 allele<sup>4</sup></b>                                                                                                  | <b>ser<sup>5</sup></b> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *010101-010205, 0104-0122                                                                                                       | 1                      | 73 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0103                                                                                                                           | 103                    | 74 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *03010101-030106, 0304-0306, 0309, 0311-0316, 0318-0320, 0322, 0323, 0325, 0326, 0328, 0330, 0331, 0333, 0334, 0336, 0337, 0343 | 17                     |    |    |    |    | 77 | 78 |    |    |    |    |    |    |    |    |    |    | 89 |    |    |    |    |    |    |
| *030201-0303, 0327, 0329, 0338                                                                                                  | 18                     |    |    |    |    | 77 |    | 79 |    |    |    |    |    |    |    |    |    | 89 |    |    |    |    |    |    |
| *0307, 0317, 0321, 0324, 0332, 0335, 0339-0341                                                                                  | -                      |    |    |    |    | 77 |    |    |    |    |    |    |    |    |    |    |    | 89 |    |    |    |    |    |    |
| *0308                                                                                                                           | -                      |    |    |    |    | 77 | 78 |    |    |    |    | 83 |    | 85 |    |    |    |    |    |    |    |    |    |    |
| *0310                                                                                                                           | -                      |    |    |    |    | 77 | 78 |    |    |    |    |    |    |    |    |    |    |    | 91 | 92 |    |    |    |    |
| *0342                                                                                                                           | -                      |    |    |    |    | 77 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *040101-0461, 0463-0468, 0470-0472, 0474-0478                                                                                   | 4                      |    |    |    |    |    |    |    | 80 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0462, 0469, 0473                                                                                                               | -                      |    |    |    |    |    |    |    | 80 |    |    |    |    |    |    |    |    | 90 |    |    |    |    |    |    |
| *07010101-070103, 0703-0717                                                                                                     | 7                      |    |    |    |    |    |    |    |    | 81 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *080101-080203, 080401-0807, 0811, 0816, 0817, 0822, 0824, 0826, 0828                                                           | 8                      |    |    |    |    |    |    |    |    |    | 82 |    |    |    |    |    | 88 |    |    |    |    |    |    |    |
| *080302, 0810, 0812-0815, 0818, 0819, 0823, 0825, 0827, 0829, 0830, 0833, 0834, 0836                                            | 8                      |    |    |    |    |    |    |    |    |    | 82 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *0808                                                                                                                           | -                      |    |    |    |    |    |    |    |    |    | 82 |    |    |    |    |    | 88 | 90 |    |    |    |    |    |    |
| *0809, 0821, 1415                                                                                                               | 8                      |    |    |    |    |    |    |    |    |    | 82 |    |    |    |    |    | 88 |    |    | 92 |    |    |    |    |
| *0820, 1318, 1347, 1355                                                                                                         | 8,13                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 87 | 88 | 89 |    | 92 |    |    |    |    |
| *0831, 1167                                                                                                                     | -                      |    |    |    |    |    |    |    |    |    | 82 |    |    | 85 |    |    | 88 |    |    |    |    |    |    |    |
| *0832                                                                                                                           | -                      |    |    |    |    |    |    |    |    |    | 82 |    |    |    | 86 |    |    |    |    | 92 |    |    |    |    |
| *0835                                                                                                                           | -                      |    |    |    |    |    |    |    |    |    | 82 |    |    |    |    |    |    |    |    | 92 |    |    |    |    |
| *090102-090202, 0904-0908                                                                                                       | 9                      |    |    |    |    |    |    |    |    |    |    | 83 |    |    |    |    |    |    | 91 |    |    |    |    |    |
| *0903                                                                                                                           | 9                      |    |    |    |    |    |    |    |    |    |    | 83 |    |    |    |    |    |    |    |    |    |    |    |    |
| *100101-1003                                                                                                                    | 10                     |    |    |    |    |    |    |    |    |    |    |    | 84 |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                                                                                                                        | DR                     | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |

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| Well No.                                                                                                                                                                                                               | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *110101-110108, 110401-110404, 110601, 110602, 1109-111002, 111201, 111202, 1115, 1124, 112701-1130, 1132, 1133, 1135, 1137-1139, 1143, 1144, 1146, 1147, 1149-1151, 115401, 115402, 1156, 1158, 1160-1162, 1166, 1172 | 11 |    |    |    |    |    |    |    |    |    |    |    |    | 85 |    | 87 | 88 |    |    |    |    |    |    |    |
| *110201-1103, 111101, 111102, 111401, 111402, 1116, 1120, 1121, 1136, 1140, 1141, 1148, 1159, 1163, 116501, 116502, 1168, 1170                                                                                         | 11 |    |    |    |    |    | 78 |    |    |    |    |    |    | 85 |    | 87 | 88 |    |    |    |    |    |    |    |
| *1105                                                                                                                                                                                                                  | 11 |    |    |    |    |    |    |    |    |    |    |    |    | 85 |    |    | 88 |    |    |    |    |    |    |    |
| *1107, 1153                                                                                                                                                                                                            | -  |    |    |    |    | 77 |    |    |    |    | 83 |    |    | 85 |    |    |    |    |    |    |    |    |    |    |
| *110801, 110802, 1118-111902, 1142, 1157                                                                                                                                                                               | 11 |    |    |    |    |    |    |    |    |    |    |    |    | 85 |    | 87 |    |    |    |    |    |    |    |    |
| *111301, 111302                                                                                                                                                                                                        | 11 |    |    |    |    |    |    | w  |    |    |    |    |    | 85 |    |    |    |    | 91 | 92 |    |    |    |    |
| *1117, 1152                                                                                                                                                                                                            | -  |    |    |    |    |    |    |    |    |    |    |    |    | 85 |    |    |    |    | 91 | 92 |    |    |    |    |
| *1122                                                                                                                                                                                                                  | 11 |    |    |    |    |    |    |    |    |    |    |    |    | 85 |    |    |    |    |    |    |    |    |    |    |
| *1123, 1125                                                                                                                                                                                                            | -  |    |    |    |    |    |    |    |    |    |    |    |    | 85 |    | 87 | 88 |    |    | 92 |    |    |    |    |
| *1126, 1134                                                                                                                                                                                                            | 11 |    |    |    |    |    | 79 |    |    |    |    |    |    | 85 |    |    |    |    |    |    |    |    |    |    |
| *1131, 1145, 1164                                                                                                                                                                                                      | 11 |    |    |    |    |    |    |    |    |    |    |    |    | 85 |    | 87 |    |    |    | 92 |    |    |    |    |
| *1155                                                                                                                                                                                                                  | -  |    |    |    |    |    |    |    |    |    |    |    |    | 85 |    |    | 88 |    |    | 92 |    |    |    |    |
| *1169                                                                                                                                                                                                                  | -  |    |    |    |    |    |    |    |    |    |    |    |    | 85 |    |    | 88 | 90 |    |    |    |    |    |    |
| *1173                                                                                                                                                                                                                  | -  |    |    |    |    | 78 |    |    |    |    |    |    |    | 85 |    | 87 |    |    |    |    |    |    |    |    |
| *120101, 120102, 120302, 1205-1212, 1214, 1217                                                                                                                                                                         | 12 |    |    |    |    |    |    |    |    |    |    |    |    |    | 86 |    |    |    |    |    |    |    |    |    |
| *120201-120204, 1213, 1215, 1218, 1219                                                                                                                                                                                 | 12 |    |    |    |    |    |    |    |    |    |    |    |    |    | 86 |    | 88 |    |    |    |    |    |    |    |
| *1204                                                                                                                                                                                                                  | -  |    |    |    |    |    |    |    |    |    | 82 |    |    |    | 86 |    |    |    |    |    |    |    |    |    |
| *1216                                                                                                                                                                                                                  | -  |    |    |    |    |    |    |    |    |    | 82 |    |    |    | 86 |    | 88 |    |    |    |    |    |    |    |
| *130101-130201, 130203, 1304, 1308, 1316, 1320, 1322-1324, 1327-1329, 1331, 1332, 1334-1336, 1338-1341, 1348, 1351, 1352, 1354, 1359, 1361, 1363-1365, 1368-1376, 1378-1380, 1383, 1384, 1387                          | 13 |    |    |    |    |    | 78 |    |    |    |    |    |    |    |    | 87 | 88 | 89 |    |    |    |    |    |    |
| Well No.                                                                                                                                                                                                               | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |

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| Well No.                                                                                                                                         | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *130202, 130301, 130302, 1310, 133301, 1337, 1366, 1381, 1388                                                                                    | 13 |    |    |    |    |    | 78 |    |    |    |    |    |    |    |    | 87 |    | 89 |    |    |    |    |    |    |
| *130501, 130502, 130701, 130702, 131101, 131102, 131401-131403, 1321, 1342, 1346, 1349-135002, 1362                                              | 13 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 87 | 88 | 89 |    |    |    |    |    |    |
| *1306, 1312, 1325, 1330, 1356, 1358, 1360, 1377, 1382                                                                                            | 13 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 87 |    | 89 |    |    |    |    |    |    |
| *1309                                                                                                                                            | 13 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 88 | 89 |    |    |    |    |    |    |
| *1313, 1484                                                                                                                                      | -  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 87 |    | 89 |    | 92 |    |    |    |    |
| *1315, 1319, 1353, 1357                                                                                                                          | -  |    |    |    |    |    | 78 | 79 |    |    |    |    |    |    |    | 87 | 88 | 89 |    |    |    |    |    |    |
| *1317                                                                                                                                            | 13 |    |    |    |    |    | 78 |    |    | 81 |    |    |    |    |    |    | 88 |    |    |    |    |    |    |    |
| *1326                                                                                                                                            | -  |    |    |    |    |    |    | 79 |    |    |    |    |    |    |    | 87 | 88 | 89 |    |    |    |    |    |    |
| *1343                                                                                                                                            | -  |    |    |    |    |    | 78 |    |    |    |    |    |    |    |    | 87 | 88 |    |    | 91 | 92 |    |    |    |
| *1344, 1386                                                                                                                                      | -  |    |    |    |    |    |    | 79 |    |    |    |    |    |    |    |    |    | 89 |    |    |    |    |    |    |
| *1345                                                                                                                                            | -  |    |    |    |    |    | 78 |    |    |    |    |    |    |    |    | 87 | 88 |    | 90 |    | 92 |    |    |    |
| *1367                                                                                                                                            | -  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 87 | 88 |    |    |    |    |    |    |    |
| *1385, 1419, 1421                                                                                                                                |    |    |    |    |    |    | 78 | 79 |    |    |    |    |    |    |    | 87 |    | 89 |    |    |    |    |    |    |
| *140101, 140102, 1404, 140701, 140702, 1410, 1426, 1428, 1431, 1435, 1438, 1439, 1454, 1455, 1457, 1460-1462, 1470, 1471, 1475, 1476, 1479, 1486 | 14 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 90 | 91 | 92 |    |    |    |
| *140103, 1408, 142302, 1434, 1472                                                                                                                | -  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 91 | 92 |    |    |    |
| *1402, 1406, 1409, 1413, 1417, 1420, 1429, 1430, 1433, 1441, 1447, 1448, 1451, 1480, 1483                                                        | 14 |    |    |    |    |    |    | 79 |    |    |    |    |    |    |    |    |    | 89 |    | 91 |    |    |    |    |
| *140301, 140302, 1412, 1440, 1463, 1467, 1477, 1478, 1485                                                                                        | 14 |    |    |    |    |    |    | 79 |    |    |    |    |    |    |    | 87 |    | 89 |    |    | 92 |    |    |    |
| *140501-140503, 1414, 142301, 1436, 1443-1445, 1456, 1459, 1464                                                                                  | 14 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 89 |    | 91 | 92 |    |    |    |
| *1411                                                                                                                                            | -  |    |    |    |    |    |    |    |    |    | 82 |    |    |    |    |    |    |    |    | 91 | 92 |    |    |    |
| *1416                                                                                                                                            | 6  |    |    |    |    |    | 78 |    |    |    |    |    |    |    |    | 87 | 88 |    | 90 | 91 | 92 |    |    |    |
| *1418, 1481                                                                                                                                      | -  |    |    |    |    |    |    | 79 |    |    |    |    |    |    |    |    |    | 89 |    | 91 | 92 |    |    |    |
| *1422                                                                                                                                            | -  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 87 | 88 |    | 90 | 91 | 92 |    |    |    |
| Well No.                                                                                                                                         | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |

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| Well No.                                             | DR               | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
|------------------------------------------------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *1424                                                | -                |    |    |    |    |    |    | 79 |    |    |    |    |    |    |    |    | 88 | 89 |    |    |    |    |    |    |
| *1425, 1453                                          | -                |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 87 | 88 |    | 90 |    | 92 |    |    |    |
| *1427                                                | 14               |    |    |    |    |    |    | 79 |    |    |    |    |    |    |    | 87 | 88 | 89 |    |    | 92 |    |    |    |
| *143201, 143202                                      | -                |    |    |    |    |    |    | w  |    |    |    |    |    |    |    |    |    |    | 90 | 91 | 92 |    |    |    |
| *1437                                                | -                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 88 | 89 | 90 |    |    |    |    |    |
| *1442                                                |                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 89 |    |    | 92 |    |    |    |
| *1446, 1452                                          | -                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 91 |    |    |    |    |
| *1449                                                | -                |    |    |    |    |    |    | 79 |    |    |    |    |    |    |    |    |    |    | 90 | 91 | 92 |    |    |    |
| *1450                                                | -                |    |    |    |    |    |    |    |    | 81 |    |    |    |    |    |    |    |    | 90 | 91 | 92 |    |    |    |
| *1458                                                | -                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 90 |    | 92 |    |    |    |
| *1465                                                | -                |    |    |    |    |    |    | w  |    |    |    |    |    |    |    |    |    | 89 |    | 91 | 92 |    |    |    |
| *1468                                                | -                |    |    |    |    |    |    |    |    | 82 |    |    |    |    |    |    |    |    | 90 | 91 | 92 |    |    |    |
| *1469                                                | -                |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 87 |    |    | 90 |    | 92 |    |    |    |
| *1473                                                | -                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 88 |    | 90 | 91 | 92 |    |    |    |
| *1474                                                | -                |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 87 |    |    | 90 | 91 | 92 |    |    |    |
| *1482                                                | -                |    |    |    |    |    | 78 |    |    |    |    |    |    |    |    |    |    |    | 90 | 91 | 92 |    |    |    |
| *15010101-1520, 1522-1524, 1526, 1528-1533           | 15               |    |    | 75 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1521                                                | -                |    |    | 75 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | w  |    |    |    |
| *1525                                                | -                |    |    | 75 |    | 77 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1527                                                | -                |    |    | 75 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 91 |    |    |    |    |
| *160101-1603, 160501, 160502, 1607-1613N             | 16               |    |    |    | 76 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *1604                                                | 16               |    |    |    | 76 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | w  |    |    |    |
| Well No.                                             |                  | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
| DRB1 allele <sup>4</sup>                             | ser <sup>5</sup> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| DRB3*01010201-0113, DRB3*0201-0224, DRB3*030101-0303 | 52               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 93 |    |    |
| DRB4*01010101-0107                                   | 53               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 94 |    |
| DRB5*010101-0113, DRB5*0202-0205                     | 51               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 95 |
| Well No.                                             | ser <sup>5</sup> | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |

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<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 73 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DR low resolution typing.

In addition, well number 82 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

<sup>2</sup>The codon, and in parenthesis the nucleotide, in the 2<sup>nd</sup> exon, matching the specificity-determining 3'-end of the primer is given. Codon and 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. Empty spaces indicate codon boundaries.

<sup>3</sup>The codon, and in parenthesis the nucleotide, in the 2<sup>nd</sup> exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Codon and 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. Empty spaces indicate codon boundaries.

<sup>4</sup>The DRB1\*0809, DRB1\*0821 and DRB4\*1415 alleles yield identical amplification patterns except for the specific PCR product yielded by the DRB3 gene in linkage disequilibrium with the DRB1\*1415 allele.

The DRB1\*0820, DRB1\*1318, DRB1\*1347 and DRB1\*1355 alleles yield identical amplification patterns except for the specific PCR product yielded by the DRB3 gene in linkage disequilibrium with the DRB1\*1318, DRB1\*1347 and DRB1\*1355 alleles.

The DRB1\*0831 and DRB1\*1167 alleles yield identical amplification patterns except for the specific PCR product yielded by the DRB3 gene in linkage disequilibrium with the DRB1\*1167 allele.

The sequence of the DRB1\*0702 allele has been shown to be identical to DRB1\*070101.

The sequence of the DRB1\*08031 allele has been shown to be identical to DRB1\*080302.

The sequence of the DRB1\*09011 allele has been shown to be identical to DRB1\*090102.

The sequence of the DRB1\*12031 allele has been shown to be identical to DRB1\*1201.

The sequence of the DRB1\*1466 allele has been shown to be identical to DRB1\*142302.

The sequence of the DRB1\*1606 allele has been shown to be identical to DRB1\*1605.

The sequence of the DRB3\*010101 allele has been shown to be identical to DRB3\*01010201.

The DRB4\*0101102N allele has been renamed DRB4\*01030102N.

The sequence of the DRB5\*0201 allele has been shown to be identical to DRB5\*0202.

<sup>5</sup>The serological reactivity of all DRB alleles is not known. In this table we use the information in the HLA Dictionary 2004 on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site and the information available at the [www.worldmarrow.org](http://www.worldmarrow.org) web site and have also inferred the serological grouping from the naming of the sequence-defined allele.

'ser', serological HLA specificity.

'w', may be weakly amplified. 'f', may be faintly amplified.

| CELL LINE VALIDATION SHEET      |                 |       |       |  |          |           |           |           |           |           |           |           |           |           |           |           |
|---------------------------------|-----------------|-------|-------|--|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A low resolution primer set |                 |       |       |  |          |           |           |           |           |           |           |           |           |           |           |           |
|                                 |                 |       |       |  |          | Well      |           |           |           |           |           |           |           |           |           |           |
|                                 |                 |       |       |  |          | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        |
|                                 |                 |       |       |  | Lot No.: | 200855001 | 200855002 | 200855003 | 200855004 | 200855005 | 200855006 | 200855007 | 200855008 | 200855009 | 200855010 | 200855011 |
|                                 |                 |       |       |  |          | 12        | 13        | 14        | 15        | 16        | 17        | 18        | 19        | 20        | 21        | 22        |
|                                 | IHWC cell line  | A*    | A*    |  |          |           |           |           |           |           |           |           |           |           |           |           |
| 1                               | 9001 SA         | *2402 |       |  |          | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         |
| 2                               | 9280 LK707      | *0201 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 3                               | 9011 E4181324   | *0101 |       |  |          | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 4                               | 9275 GU373      | *3001 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 5                               | 9009 KAS011     | *0101 |       |  |          | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |
| 6                               | 9353 SM         | *0201 | *2603 |  |          | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | -         |
| 7                               | 9020 QBL        | *2601 |       |  |          | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |
| 8                               | 9025 DEU        | *3101 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 9                               | 9026 YAR        | *2601 |       |  |          | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |
| 10                              | 9107 LKT3       | *2402 |       |  |          | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         |
| 11                              | 9051 PITOUT     | *2902 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 12                              | 9052 DBB        | *0201 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 13                              | 9004 JESTHOM    | *0201 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 14                              | 9071 OLGA       | *3101 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 15                              | 9075 DKB        | *2402 |       |  |          | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         |
| 16                              | 9037 SWEIG007   | *2902 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 17                              | 9282 CTM3953540 | *0301 | *8001 |  |          | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | +         |
| 18                              | 9257 32367      | *3303 | *7401 |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 19                              | 9038 BM16       | *0201 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 20                              | 9059 SLE005     | *0201 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 21                              | 9064 AMALA      | *0217 |       |  |          | -         | +         | -         | -         | -         | -         | W         | -         | -         | -         | -         |
| 22                              | 9056 KOSE       | *0201 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 23                              | 9124 IHL        | *0201 | *3401 |  |          | -         | +         | -         | -         | -         | -         | -         | +         | -         | +         | -         |
| 24                              | 9035 JBUSH      | *3201 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 25                              | 9049 IBW9       | *3301 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 26                              | 9285 WT49       | *0205 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 27                              | 9191 CH1007     | *2410 | *2901 |  |          | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | +         |
| 28                              | 9320 BEL5GB     | *0201 | *2902 |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 29                              | 9050 MOU        | *2902 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 30                              | 9021 RSH        | *3001 | *6802 |  |          | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         |
| 31                              | 9019 DUCAF      | *3002 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 32                              | 9297 HAG        | *0201 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 33                              | 9098 MT14B      | *3101 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 34                              | 9104 DHIF       | *3101 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 35                              | 9302 SСТО       | *3201 |       |  |          | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 36                              | 9024 KT17       | *0206 | *1101 |  |          | -         | +         | -         | +         | -         | -         | -         | -         | -         | +         | -         |
| 37                              | 9065 HHKB       | *0301 |       |  |          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         |
| 38                              | 9099 LZL        | *0217 |       |  |          | -         | +         | -         | -         | -         | -         | W         | -         | -         | -         | -         |
| 39                              | 9315 CML        | *0101 | *0301 |  |          | +         | -         | +         | +         | -         | -         | -         | -         | -         | -         | +         |
| 40                              | 9134 WHONP199   | *0207 | *3001 |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         |
| 41                              | 9055 H0301      | *0301 |       |  |          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         |
| 42                              | 9066 TAB089     | *0207 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 43                              | 9076 T7526      | *0207 |       |  |          | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 44                              | 9057 TEM        | *6601 |       |  |          | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |
| 45                              | 9239 SHJO       | *2301 | *2402 |  |          | -         | -         | -         | -         | +         | +         | +         | -         | -         | -         | -         |
| 46                              | 9013 SCHU       | *0301 |       |  |          | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         |
| 47                              | 9045 TUBO       | *0216 | *0301 |  |          | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | +         |
| 48                              | 9303 TER-ND     | *0201 | *1101 |  |          | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         |

| CELL LINE VALIDATION SHEET      |                |            |       |          |           |           |           |           |           |           |           |           |
|---------------------------------|----------------|------------|-------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A low resolution primer set |                |            |       |          |           |           |           |           |           |           |           |           |
|                                 |                |            |       |          | Well      |           |           |           |           |           |           |           |
|                                 |                |            |       |          | 17        | 18        | 19        | 20        | 21        | 22        | 23        | 24        |
|                                 |                |            |       |          | 200855017 | 200855018 | 200855019 | 200959320 | 200855021 | 200855022 | 200855023 | 200855024 |
|                                 |                |            |       | Lot No.: |           |           |           |           |           |           |           |           |
|                                 | IHCW cell line |            | A*    | A*       |           |           |           |           |           |           |           |           |
| 1                               | 9001           | SA         | *2402 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 2                               | 9280           | LK707      | *0201 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 3                               | 9011           | E4181324   | *0101 |          | -         | -         | -         | -         | -         | -         | -         | +         |
| 4                               | 9275           | GU373      | *3001 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 5                               | 9009           | KAS011     | *0101 |          | -         | -         | -         | -         | -         | -         | -         | +         |
| 6                               | 9353           | SM         | *0201 | *2603    | -         | -         | -         | -         | -         | -         | +         | -         |
| 7                               | 9020           | QBL        | *2601 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 8                               | 9025           | DEU        | *3101 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 9                               | 9026           | YAR        | *2601 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 10                              | 9107           | LKT3       | *2402 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 11                              | 9051           | PITOUT     | *2902 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 12                              | 9052           | DBB        | *0201 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 13                              | 9004           | JESTHOM    | *0201 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 14                              | 9071           | OLGA       | *3101 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 15                              | 9075           | DKB        | *2402 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 16                              | 9037           | SWEIG007   | *2902 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 17                              | 9282           | CTM3953540 | *0301 | *8001    | -         | +         | -         | -         | -         | -         | +         | +         |
| 18                              | 9257           | 32367      | *3303 | *7401    | -         | +         | +         | -         | -         | -         | -         | -         |
| 19                              | 9038           | BM16       | *0201 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 20                              | 9059           | SLE005     | *0201 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 21                              | 9064           | AMALA      | *0217 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 22                              | 9056           | KOSE       | *0201 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 23                              | 9124           | IHL        | *0201 | *3401    | -         | -         | -         | -         | -         | -         | -         | -         |
| 24                              | 9035           | JBUSH      | *3201 |          | +         | -         | -         | -         | -         | -         | -         | -         |
| 25                              | 9049           | IBW9       | *3301 |          | -         | +         | -         | -         | -         | -         | -         | -         |
| 26                              | 9285           | WT49       | *0205 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 27                              | 9191           | CH1007     | *2410 | *2901    | -         | -         | -         | -         | -         | -         | -         | -         |
| 28                              | 9320           | BEL5GB     | *0201 | *2902    | -         | -         | -         | -         | -         | -         | -         | -         |
| 29                              | 9050           | MOU        | *2902 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 30                              | 9021           | RSH        | *3001 | *6802    | -         | -         | -         | +         | -         | -         | -         | -         |
| 31                              | 9019           | DUCAF      | *3002 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 32                              | 9297           | HAG        | *0201 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 33                              | 9098           | MT14B      | *3101 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 34                              | 9104           | DHIF       | *3101 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 35                              | 9302           | SSTO       | *3201 |          | +         | -         | -         | -         | -         | -         | -         | -         |
| 36                              | 9024           | KT17       | *0206 | *1101    | -         | -         | -         | -         | -         | -         | -         | +         |
| 37                              | 9065           | HHKB       | *0301 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 38                              | 9099           | LZL        | *0217 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 39                              | 9315           | CML        | *0101 | *0301    | -         | -         | -         | -         | -         | -         | -         | +         |
| 40                              | 9134           | WHONP199   | *0207 | *3001    | -         | -         | -         | -         | -         | -         | -         | -         |
| 41                              | 9055           | H0301      | *0301 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 42                              | 9066           | TAB089     | *0207 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 43                              | 9076           | T7526      | *0207 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 44                              | 9057           | TEM        | *6601 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 45                              | 9239           | SHJO       | *2301 | *2402    | -         | -         | -         | -         | -         | -         | -         | -         |
| 46                              | 9013           | SCHU       | *0301 |          | -         | -         | -         | -         | -         | -         | -         | -         |
| 47                              | 9045           | TUBO       | *0216 | *0301    | -         | -         | -         | -         | -         | -         | -         | -         |
| 48                              | 9303           | TER-ND     | *0201 | *1101    | -         | -         | -         | -         | -         | -         | -         | +         |

**Lot No.: 23G**

### Lot-specific information

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**Lot No.: 23G**

### Lot-specific information

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| CELL LINE VALIDATION SHEET   |                |            |        |  |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |  |
|------------------------------|----------------|------------|--------|--|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---|---|---|---|--|
| HLA-B low resolution SSP kit |                |            |        |  |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |  |
|                              |                |            |        |  | Prod. No.: | Well      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |  |
|                              |                |            |        |  |            | 41        | 42        | 43        | 44        | 45        | 46        | 47        | 48        | 49        | 50        | 51        | 52        | 53        | 54        | 55        | 56        |   |   |   |   |   |  |
|                              |                |            |        |  |            | 200963317 | 200959418 | 200959419 | 200963320 | 200959421 | 200959422 | 200959423 | 200959424 | 200959425 | 200963326 | 200963327 | 200959428 | 200963329 | 200959430 | 200959431 | 200963332 |   |   |   |   |   |  |
|                              | IHWC cell line |            | B*     |  |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |   |   |   |   |  |
| 1                            | 9001           | SA         | *0702  |  |            | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | -         | - | - | - | - | - |  |
| 2                            | 9280           | LK707      | *5201  |  | *7301      | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | -         | - | - | - | - | - |  |
| 3                            | 9011           | E4181324   | *52011 |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 4                            | 9275           | GU373      | *1510  |  | *5301      | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 5                            | 9009           | KAS011     | *3701  |  |            | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | - | - | - | - | - |  |
| 6                            | 9353           | SM         | *3901  |  | *5101      | -         | -         | -         | -         | +         | -         | +         | +         | -         | -         | -         | -         | -         | +         | -         | -         | - | - | - | - | - |  |
| 7                            | 9020           | QBL        | *1801  |  |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 8                            | 9025           | DEU        | *3501  |  |            | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 9                            | 9026           | YAR        | *3801  |  |            | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 10                           | 9107           | LKT3       | *5401  |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | - | - | - | + | - |  |
| 11                           | 9051           | PITOUT     | *4403  |  |            | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - |  |
| 12                           | 9052           | DBB        | *5701  |  |            | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 13                           | 9004           | JESTHOM    | *2705  |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | + | - |  |
| 14                           | 9071           | OLGA       | *1501  |  | *1520      | +         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 15                           | 9075           | DKB        | *4001  |  |            | -         | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 16                           | 9037           | SWEIG007   | *4002  |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 17                           | 9282           | CTM3953540 | *0801  |  | *5501      | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | +         | -         | -         | -         | -         | - | - | - | + | - |  |
| 18                           | 9257           | 32367      | *1401  |  | *5601      | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | +         | -         | -         | -         | -         | - | - | - | + | - |  |
| 19                           | 9038           | BM16       | *1801  |  |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 20                           | 9059           | SLE005     | *4001  |  |            | -         | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 21                           | 9064           | AMALA      | *1501  |  |            | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 22                           | 9056           | KOSE       | *3503  |  |            | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 23                           | 9124           | IHL        | *4002  |  | *5602      | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | - | - | - | + | - |  |
| 24                           | 9035           | JBUSH      | *3801  |  |            | -         | -         | -         | -         | +         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 25                           | 9049           | IBW9       | *1402  |  |            | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 26                           | 9285           | WT49       | *5801  |  |            | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 27                           | 9191           | CH1007     | *0705  |  | *5101      | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | +         | -         | +         | - | - | - | - | - |  |
| 28                           | 9320           | BEL5GB     | *4402  |  | *4403      | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | - | - | - | - | - |  |
| 29                           | 9050           | MOU        | *4403  |  |            | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - |  |
| 30                           | 9021           | RSH        | *4201  |  |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | +         | -         | -         | -         | -         | - | - | - | - | - |  |
| 31                           | 9019           | DUCAF      | *1801  |  |            | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 32                           | 9297           | HAG        | *4102  |  |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 33                           | 9098           | MT14B      | *4001  |  |            | -         | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 34                           | 9104           | DHIF       | *3801  |  |            | -         | -         | -         | -         | +         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 35                           | 9302           | SSTO       | *4402  |  |            | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - |  |
| 36                           | 9024           | KT17       | *1501  |  | *3501      | +         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 37                           | 9065           | HHKB       | *0702  |  |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | -         | - | - | - | - | - |  |
| 38                           | 9099           | LZL        | *1501  |  |            | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 39                           | 9315           | CML        | *0801  |  | *2705      | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | +         | -         | -         | -         | -         | - | - | - | + | - |  |
| 40                           | 9134           | WHONP199   | *1302  |  | *4601      | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | - | + | - | - | - |  |
| 41                           | 9055           | H0301      | *1402  |  |            | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 42                           | 9066           | TAB089     | *4601  |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | - | + | - | - | - |  |
| 43                           | 9076           | T7526      | *4601  |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | - | + | - | - | - |  |
| 44                           | 9057           | TEM        | *3801  |  |            | -         | -         | -         | -         | +         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - | - | - | - | - |  |
| 45                           | 9239           | SHJO       | *4201  |  | *5001      | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | +         | -         | -         | -         | -         | - | - | - | - | - |  |
| 46                           | 9013           | SCHU       | *0702  |  |            | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         | -         | -         | - | - | - | - | - |  |
| 47                           | 9045           | TUBO       | *5101  |  |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | - | - | - | - | - |  |
| 48                           | 9303           | TER-ND     | *3501  |  | *4403      | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | - | - | - | - | - |  |

| CELL LINE VALIDATION SHEET   |                 |  |        |       |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|------------------------------|-----------------|--|--------|-------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B low resolution SSP kit |                 |  |        |       |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                              |                 |  |        |       | Well       |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                              |                 |  |        |       |            | 57        | 58        | 59        | 60        | 61        | 62        | 63        | 64        | 65        | 66        | 67        | 68        | 69        | 70        | 71        | 72        |
|                              |                 |  |        |       | Prod. No.: | 200959433 | 200959434 | 200959435 | 200959436 | 200959437 | 200959438 | 200963339 | 200963340 | 200959441 | 200959442 | 200963343 | 200959444 | 200959445 | 200959446 | 200959447 | 200963348 |
|                              | IHWC cell line  |  | B*     |       |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 1                            | 9001 SA         |  | *0702  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |
| 2                            | 9280 LK707      |  | *5201  | *7301 |            | -         | -         | +         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 3                            | 9011 E4181324   |  | *52011 |       |            | -         | -         | +         | +         | -         | +         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |
| 4                            | 9275 GU373      |  | *1510  | *5301 |            | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | +         | -         |
| 5                            | 9009 KAS011     |  | *3701  |       |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 6                            | 9353 SM         |  | *3901  | *5101 |            | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |
| 7                            | 9020 QBL        |  | *1801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |
| 8                            | 9025 DEU        |  | *3501  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |
| 9                            | 9026 YAR        |  | *3801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 10                           | 9107 LKT3       |  | *5401  |       |            | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | +         | -         |
| 11                           | 9051 PITOUT     |  | *4403  |       |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 12                           | 9052 DBB        |  | *5701  |       |            | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | -         | +         | -         | -         |
| 13                           | 9004 JESTHOM    |  | *2705  |       |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 14                           | 9071 OLGA       |  | *1501  | *1520 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |
| 15                           | 9075 DKB        |  | *4001  |       |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 16                           | 9037 SWEIG007   |  | *4002  |       |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 17                           | 9282 CTM3953540 |  | *0801  | *5501 |            | -         | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | +         |
| 18                           | 9257 32367      |  | *1401  | *5601 |            | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         |
| 19                           | 9038 BM16       |  | *1801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |
| 20                           | 9059 SLE005     |  | *4001  |       |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 21                           | 9064 AMALA      |  | *1501  |       |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |
| 22                           | 9056 KOSE       |  | *3503  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |
| 23                           | 9124 IHL        |  | *4002  | *5602 |            | -         | -         | -         | -         | +         | +         | -         | -         | +         | -         | +         | -         | -         | -         | +         | -         |
| 24                           | 9035 JBUSH      |  | *3801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 25                           | 9049 IBW9       |  | *1402  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 26                           | 9285 WT49       |  | *5801  |       |            | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         | -         |
| 27                           | 9191 CH1007     |  | *0705  | *5101 |            | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | +         | +         |
| 28                           | 9320 BEL5GB     |  | *4402  | *4403 |            | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 29                           | 9050 MOU        |  | *4403  |       |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 30                           | 9021 RSH        |  | *4201  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |
| 31                           | 9019 DUCAF      |  | *1801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | +         | -         |
| 32                           | 9297 HAG        |  | *4102  |       |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |
| 33                           | 9098 MT14B      |  | *4001  |       |            | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 34                           | 9104 DHIF       |  | *3801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 35                           | 9302 SSTO       |  | *4402  |       |            | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 36                           | 9024 KT17       |  | *1501  | *3501 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | +         | -         | +         | -         |
| 37                           | 9065 HHKB       |  | *0702  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |
| 38                           | 9099 LZL        |  | *1501  |       |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |
| 39                           | 9315 CML        |  | *0801  | *2705 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | +         | +         | +         |
| 40                           | 9134 WHONP199   |  | *1302  | *4601 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | +         | +         | +         | -         |
| 41                           | 9055 H0301      |  | *1402  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         |
| 42                           | 9066 TAB089     |  | *4601  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |
| 43                           | 9076 T7526      |  | *4601  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         |
| 44                           | 9057 TEM        |  | *3801  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         |
| 45                           | 9239 SHJO       |  | *4201  | *5001 |            | -         | -         | +         | -         | +         | +         | -         | -         | +         | -         | -         | -         | -         | -         | +         | +         |
| 46                           | 9013 SCHU       |  | *0702  |       |            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         | +         |
| 47                           | 9045 TUBO       |  | *5101  |       |            | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | +         | -         | +         | -         | -         |
| 48                           | 9303 TER-ND     |  | *3501  | *4403 |            | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | +         | +         | -         |

| CELL LINE VALIDATION SHEET   |                |            |       |       |            |           |           |           |           |           |           |           |  |
|------------------------------|----------------|------------|-------|-------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| DR low resolution primer set |                |            |       |       |            |           |           |           |           |           |           |           |  |
|                              |                |            |       |       | Prod. No.: | Well      |           |           |           |           |           |           |  |
|                              |                |            |       |       |            | 89        | 90        | 91        | 92        | 93        | 94        | 95        |  |
|                              |                |            |       |       |            | 200960317 | 200960318 | 200963419 | 200960320 | 200963421 | 200960322 | 200960323 |  |
|                              | IHCW cell line |            | DRB1  |       |            |           |           |           |           |           |           |           |  |
| 1                            | 9001           | SA         | *0101 |       |            | -         | -         | -         | -         | -         | -         | -         |  |
| 2                            | 9280           | LK707      | *1502 | *0405 |            | -         | -         | -         | -         | -         | +         | +         |  |
| 3                            | 9011           | E4181324   | *1502 |       |            | -         | -         | -         | -         | -         | -         | +         |  |
| 4                            | 9275           | GU373      | *0301 |       |            | +         | -         | -         | -         | +         | -         | -         |  |
| 5                            | 9009           | KAS011     | *1601 |       |            | -         | -         | -         | -         | -         | -         | +         |  |
| 6                            | 9353           | SM         | *0407 | *0803 |            | -         | -         | -         | -         | -         | +         | -         |  |
| 7                            | 9020           | QBL        | *0301 |       |            | +         | -         | -         | -         | +         | -         | -         |  |
| 8                            | 9025           | DEU        | *0401 |       |            | -         | -         | -         | -         | -         | -         | -         |  |
| 9                            | 9026           | YAR        | *0402 |       |            | -         | -         | -         | -         | -         | +         | -         |  |
| 10                           | 9107           | LKT3       | *0405 |       |            | -         | -         | -         | -         | -         | +         | -         |  |
| 11                           | 9051           | PITOUT     | *0701 |       |            | -         | -         | -         | -         | -         | +         | -         |  |
| 12                           | 9052           | DBB        | *0701 |       |            | -         | -         | -         | -         | -         | +         | -         |  |
| 13                           | 9004           | JESTHOM    | *0101 |       |            | -         | -         | -         | -         | -         | -         | -         |  |
| 14                           | 9071           | OLGA       | *0802 |       |            | -         | -         | -         | -         | -         | -         | -         |  |
| 15                           | 9075           | DKB        | *0901 |       |            | -         | -         | +         | -         | -         | +         | -         |  |
| 16                           | 9037           | SWEIG007   | *1101 |       |            | -         | -         | -         | -         | +         | -         | -         |  |
| 17                           | 9282           | CTM3953540 | *0301 | *1301 |            | +         | -         | -         | -         | -         | -         | -         |  |
| 18                           | 9257           | 32367      | *0901 | *1101 |            | -         | -         | +         | -         | +         | +         | -         |  |
| 19                           | 9038           | BM16       | *1201 |       |            | -         | -         | -         | -         | +         | -         | -         |  |
| 20                           | 9059           | SLE005     | *1302 |       |            | +         | -         | -         | -         | +         | -         | -         |  |
| 21                           | 9064           | AMALA      | *1402 |       |            | +         | -         | +         | -         | +         | -         | -         |  |
| 22                           | 9056           | KOSE       | *1302 | *1401 |            | +         | +         | +         | +         | +         | -         | -         |  |
| 23                           | 9124           | IHL        | *0803 | *1414 |            | +         | -         | +         | +         | +         | -         | -         |  |
| 24                           | 9035           | JBUSH      | *1101 |       |            | -         | -         | -         | -         | +         | -         | -         |  |
| 25                           | 9049           | IBW9       | *0701 |       |            | -         | -         | -         | -         | -         | +         | -         |  |
| 26                           | 9285           | WT49       | *0301 |       |            | +         | -         | -         | -         | +         | -         | -         |  |
| 27                           | 9191           | CH1007     | *0405 | *1001 |            | -         | -         | -         | -         | -         | +         | -         |  |
| 28                           | 9320           | BEL5GB     | *0416 | *0701 |            | -         | -         | -         | -         | -         | +         | -         |  |
| 29                           | 9050           | MOU        | *0701 |       |            | -         | -         | -         | -         | -         | +         | -         |  |
| 30                           | 9021           | RSH        | *0302 |       |            | +         | -         | -         | -         | +         | -         | -         |  |
| 31                           | 9019           | DUCAF      | *0301 |       |            | +         | -         | -         | -         | +         | -         | -         |  |
| 32                           | 9297           | HAG        | *1303 |       |            | +         | -         | -         | -         | +         | -         | -         |  |
| 33                           | 9098           | MT14B      | *0404 |       |            | -         | -         | -         | -         | -         | +         | -         |  |
| 34                           | 9104           | DHIF       | *1101 |       |            | -         | -         | -         | -         | +         | -         | -         |  |
| 35                           | 9302           | SSTO       | *0403 |       |            | -         | -         | -         | -         | -         | +         | -         |  |
| 36                           | 9024           | KT17       | *0403 | *0406 |            | -         | -         | -         | -         | -         | +         | -         |  |
| 37                           | 9065           | HHKB       | *1301 |       |            | +         | -         | -         | -         | +         | -         | -         |  |
| 38                           | 9099           | LZL        | *1402 |       |            | +         | -         | +         | -         | +         | -         | -         |  |
| 39                           | 9315           | CML        | *0301 | *0401 |            | +         | -         | -         | -         | +         | +         | -         |  |
| 40                           | 9134           | WHONP199   | *0701 | *0901 |            | -         | -         | +         | -         | -         | +         | -         |  |
| 41                           | 9055           | H0301      | *1302 |       |            | +         | -         | -         | -         | +         | -         | -         |  |
| 42                           | 9066           | TAB089     | *0803 |       |            | -         | -         | -         | -         | -         | -         | -         |  |
| 43                           | 9076           | T7526      | *0901 |       |            | -         | -         | +         | -         | -         | +         | -         |  |
| 44                           | 9057           | TEM        | *1401 |       |            | -         | +         | +         | +         | +         | -         | -         |  |
| 45                           | 9239           | SHJO       | *0701 |       |            | -         | -         | -         | -         | +         | -         | -         |  |
| 46                           | 9013           | SCHU       | *1501 |       |            | -         | -         | -         | -         | -         | -         | +         |  |
| 47                           | 9045           | TUBO       | *1104 | *1201 |            | -         | -         | -         | -         | +         | -         | -         |  |
| 48                           | 9303           | TER-ND     | *0103 |       |            | -         | -         | -         | -         | -         | -         | -         |  |

## CERTIFICATE OF ANALYSIS

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

Product number: 101.701-24/06 – including *Taq* pol.

Lot number: 23G

Expiry date: 2011-September-01

Number of tests: 24 tests – Product No. 101.701-24

6 tests – Product No. 101.701-06

Number of wells per test: 95 + 1

#### Well specifications:

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 1        | 2008-550-01    | 9        | 2008-550-09    | 17       | 2008-550-17    |
| 2        | 2008-550-02    | 10       | 2008-550-10    | 18       | 2008-550-18    |
| 3        | 2008-550-03    | 11       | 2008-550-11    | 19       | 2008-550-19    |
| 4        | 2008-550-04    | 12       | 2008-550-12    | 20       | 2009-593-20    |
| 5        | 2008-550-05    | 13       | 2009-593-13    | 21       | 2008-550-21    |
| 6        | 2008-550-06    | 14       | 2008-550-14    | 22       | 2008-550-22    |
| 7        | 2008-550-07    | 15       | 2008-550-15    | 23       | 2008-550-23    |
| 8        | 2008-550-08    | 16       | 2008-550-16    | 24       | 2008-550-24    |

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

Additional 5'- and 3'-primers in primer solutions 4, 5, 6 to 8, 12, 15, 17 and 20 to 22 were tested by separately adding one 3'-primer, respectively one 5'-primer. One additional 5'-primer in primer solution 10 was tested by separately adding one 3'-primer. Additional 3'-primers in primer solutions 3, 14, 16, 18, 19 and 23 were tested by separately adding one 5'-primer.

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 25       | 2009-594-01    | 41       | 2009-633-17    | 57       | 2009-594-33    |
| 26       | 2009-594-02    | 42       | 2009-594-18    | 58       | 2009-594-34    |
| 27       | 2009-633-03    | 43       | 2009-594-19    | 59       | 2009-594-35    |
| 28       | 2009-633-04    | 44       | 2009-633-20    | 60       | 2009-594-36    |
| 29       | 2009-633-05    | 45       | 2009-594-21    | 61       | 2009-594-37    |
| 30       | 2009-633-06    | 46       | 2009-594-22    | 62       | 2009-594-38    |
| 31       | 2009-594-07    | 47       | 2009-594-23    | 63       | 2009-633-39    |
| 32       | 2009-594-08    | 48       | 2009-594-24    | 64       | 2009-633-40    |
|          |                |          |                |          |                |
| 33       | 2009-633-09    | 49       | 2009-594-25    | 65       | 2009-594-41    |
| 34       | 2009-594-10    | 50       | 2009-633-26    | 66       | 2009-594-42    |
| 35       | 2009-594-11    | 51       | 2009-633-27    | 67       | 2009-633-43    |
| 36       | 2009-594-12    | 52       | 2009-594-28    | 68       | 2009-594-44    |
| 37       | 2009-633-13    | 53       | 2009-633-29    | 69       | 2009-594-45    |
| 38       | 2009-594-14    | 54       | 2009-594-30    | 70       | 2009-594-46    |
| 39       | 2009-594-15    | 55       | 2009-594-31    | 71       | 2009-594-47    |
| 40       | 2009-594-16    | 56       | 2009-633-32    | 72       | 2009-633-48    |

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

Additional 5'-primers and 3'-primers in primer solutions 27, 38, 43, 53, 55 and 64 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. Additional 3'-primers in primer solutions 26, 37 and 59 were tested by separately adding one additional 5'-primer. Additional 5'-primers in primer solutions 25, 45 and 72 were tested by separately adding one additional 3'-primer.

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 73       | 2009-634-01    | 81       | 2009-603-09    | 89       | 2009-603-17    |
| 74       | 2009-603-02    | 82       | 2009-603-10    | 90       | 2009-603-41    |
| 75       | 2009-634-03    | 83       | 2009-603-11    | 91       | 2009-634-19    |
| 76       | 2009-603-04    | 84       | 2009-603-12    | 92       | 2009-603-20    |
| 77       | 2009-634-05    | 85       | 2009-603-13    | 93       | 2009-634-21    |
| 78       | 2009-603-06    | 86       | 2009-603-14    | 94       | 2009-603-22    |
| 79       | 2009-603-07    | 87       | 2009-603-15    | 95       | 2008-603-23    |
| 80       | 2009-634-08    | 88       | 2009-603-16    |          |                |

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

Additional 5'- and 3'-primers in primer solutions 81, 83 and 90 were tested by separately adding one 3'-primer, respectively one 5'-primer. Additional 5'-primer in primer solutions 78 and 87 were tested by separately adding one 3'-primer. Additional 3'-primers in primer solutions 73, 75, 84 and 92 were tested by separately adding one 5'-primer. One of the 5'-primers in primer solution 75, 76 81, 82 and 88, and three of the 5'-primers in primer solution 80 were not possible to test. In primer solution 85, one 5'-primer and one 3'-primer were not possible to test.

Lot No.: **23G**

Lot-specific information

[www.olerup-ssp.com](http://www.olerup-ssp.com)

The negative control primer pairs, **Production No. 2009-614-01**, can detect contamination with PCR products diluted  $10^{-7}$ .

**Results:** No false positive or false negative amplifications were obtained.

**Date of approval:** 2009-September-24

**Approved by:**

Quality Control, Supervisor

Lot No.: **23G**

Lot-specific information

[www.olerup-ssp.com](http://www.olerup-ssp.com)

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-A-B-DR SSP Combi Tray  
**Product number:** 101.701-24/06  
**Lot number:** 23G

**Intended use:** HLA-A, HLA-B and HLA-DR low resolution histo-compatibility testing

**Manufacturer:** *Olerup* SSP AB  
Hasselstigen 1  
SE-133 33 Saltsjöbaden, Sweden  
**Phone:** +46-8-717 88 27  
**Fax:** +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2000 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

The Authorized Representative located within the Community is: *Olerup* SSP AB.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom. (Notified Body number: 0088.)

Saltsjöbaden, Sweden  
2009-September-24

Olle Olerup  
Managing Director

Lot No.: **23G**

Lot-specific information

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