

**Olerup SSP® HLA-B\*51**

|                                  |   |
|----------------------------------|---|
| Product number:                  | 101.561-24u/03u – without <i>Taq</i> pol.                               |
| Lot number:                      | 48M   |
| Expiry date:                     | 2014-February-01  |
| Number of tests:                 | 24 tests – Product No. 101.561-24u<br>3 tests – Product No. 101.561-03u |
| Number of wells per test:        | 64  |
| 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. 48M.**

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP®  
HLA-B\*51 LOT.**

The HLA-B\*51 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP® HLA-B\*51* lot was made (**Lot No. 15K**).

The HLA-B\*51 primer set is unchanged compared to the previous lot.

## PRODUCT DESCRIPTION

### HLA-B\*51 SSP subtyping

#### **CONTENT**

The primer set contains 5'- and 3'-primers for identifying the B\*51:01 to B\*51:95 alleles.

#### **PLATE LAYOUT**

Each test consists of 64 PCR reactions in a 96 well PCR plate. Wells 65 to 96 are empty

| 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    |
| 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    |
| 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    |
| 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    |
| 41    | 42    | 42    | 44    | 45    | 46    | 47    | 48    |
| 49    | 50    | 51    | 52    | 53    | 54    | 55    | 56    |
| 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    |
| empty |
| empty |
| empty |
| empty |

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

Well No. 1 is marked with the Lot No. '48M'.

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**

The interpretation of HLA-B\*51 SSP subtypings will be influenced by most B\*07, twelve B\*08, most B\*13, the B\*14, many B\*15, the B\*18, eleven B\*27, most B\*35, the B\*37, two B\*38, eleven B\*39, many B\*40, six B\*41, two B\*42, most B\*44, the B\*45, two B\*46, most B\*48, the B\*49, the B\*50, the B\*52, the B\*53, the B\*54, the B\*55, the B\*56, most B\*57, most B\*58, the B\*59, the B\*73:01, the B\*78, the B\*81, the B\*82 and the B\*83:01 alleles when present on the other haplotype.

In addition, primer mixes 2 and 7 will amplify the C\*01:30 allele, primer mix 50 will amplify the C\*03:05, C\*03:25, C\*03:27 and C\*08:08 alleles, primer mix 41 will amplify the C\*08:24 allele and primer mixes 34 and 35 will amplify the C\*15:15 allele.

**UNIQUELY IDENTIFIED ALLELES**

All the HLA-B\*51 alleles, i.e. **B\*51:01 to B\*51:95**, recognized by the HLA Nomenclature Committee in April 2010<sup>1</sup> will give rise to unique amplification patterns by the primers in the HLA-B\*51 subtyping kit.

The HLA-B\*51 subtyping kit cannot distinguish the B\*51:01:01, 51:01:03-51:01:07, 51:01:10-51:01:14 and 51:01:16-51:01:17 alleles, the B\*51:01:08 and 51:01:15 alleles, the B\*51:02:01 and 51:02:03-51:02:04 alleles, the B\*51:13:01-51:13:02 alleles or the B\*51:24:02-51:24:03 alleles.

The B\*51:51 and 51:76 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 44.

The B\*51:66 and 51:67 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 64.

The B\*51:68 and 51:72 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 51.

The B\*51:70 and 51:71 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 53.

The B\*51:75 and 51:77 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 55.

The B\*51:83 and 51:88 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 59.

The B\*51:84 and 51:94 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

The B\*51:86 and 51:95 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 62.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2010-April-01, release 3.0.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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#### Lot-specific Information

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## RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 148 alleles generate 90 amplification patterns that can be combined in 4095 homozygous and heterozygous combinations. 1501 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

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|            |  |  |
|------------|--|--|
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:05, *51:84/51:94 = *51:54,<br>*51:84/51:94   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:05, *51:85 = *51:05, *51:87 = *51:54,<br>*51:87  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:05, *51:86 = *51:54, *51:86  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:05, *51:91 = *51:54, *51:91  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:05, *51:66 = *51:54, *51:66  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:01, *51:05 = *51:01:01, *51:54 =<br>*51:01:08, *51:05 = *51:05, *51:29 =<br>*51:05, *51:48 = *51:29, *51:54 = *51:48,<br>*51:54 |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:40, *51:49 = *51:40, *51:60  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:40, *51:50 = *51:40, *51:58  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:40, *51:78 = *51:40, *51:79  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:40, *51:85 = *51:40, *51:87  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:40, *51:89 = *51:40, *51:91  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:01, *51:40 = *51:01:08, *51:40  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:05, *51:89 = *51:54, *51:89  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:02, *51:05 = *51:01:02, *51:54  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:01, *51:07:02 = *51:02:02,<br>*51:07:01   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:24:01, *51:36 = *51:24:02, *51:36  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:36, *51:49 = *51:36, *51:60  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:36, *51:50 = *51:36, *51:58  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:02, *51:36 = *51:01:09, *51:36  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:36, *51:78 = *51:36, *51:79  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:36, *51:85 = *51:36, *51:87  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:36, *51:89 = *51:36, *51:91  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:01, *51:36 = *51:01:08, *51:36 =<br>*51:28, *51:36  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:09, *51:02:01 = *51:02:02, *51:21   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:01, *51:82 = *51:29, *51:34   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:34, *51:49 = *51:34, *51:60  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:34, *51:50 = *51:34, *51:58  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:02, *51:34 = *51:02:02, *51:16  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:34, *51:78 = *51:34, *51:79  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:34, *51:85 = *51:34, *51:87  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:34, *51:89 = *51:34, *51:91  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:01, *51:34 = *51:01:08, *51:34 =<br>*51:02:01, *51:16   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:01, *51:33 = *51:23, *51:33 =<br>*51:23, *51:39   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:23, *51:49 = *51:23, *51:60  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:23, *51:50 = *51:23, *51:58  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:23, *51:78 = *51:23, *51:79  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:23, *51:85 = *51:23, *51:87  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:23, *51:89 = *51:23, *51:91  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:01, *51:23 = *51:01:08, *51:23  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:02, *51:49 = *51:02:02, *51:60  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:01, *51:49 = *51:02:01, *51:60  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:02, *51:50 = *51:02:02, *51:58  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:01, *51:50 = *51:02:01, *51:58  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:02, *51:85 = *51:02:02, *51:87  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:01, *51:02:02 = *51:01:02,<br>*51:02:01 = *51:01:08, *51:02:02  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:01, *51:78 = *51:02:01, *51:79  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:01, *51:85 = *51:02:01, *51:87  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:02:01, *51:89 = *51:02:01, *51:91  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:01, *51:02:01 = *51:01:08,<br>*51:02:01   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:03, *51:09:01 = *51:03, *51:73   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:03, *51:30 = *51:03, *51:53  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:03, *51:49 = *51:03, *51:60  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:03, *51:50 = *51:03, *51:58  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:03, *51:78 = *51:03, *51:79  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:03, *51:85 = *51:03, *51:87  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:03, *51:89 = *51:03, *51:91  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:01:01, *51:03 = *51:01:08, *51:03 =<br>*51:03, *51:03  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:09:01, *51:46 = *51:46, *51:73   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:04, *51:09:01 = *51:04, *51:73   |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:04, *51:64 = *51:46, *51:64  |
| +++++----- | -----+-----+-----+-----+-----+-----+-----+-----+ | *51:30, *51:46 = *51:46, *51:53  |

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|  |   |
|--|---|
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:37, *51:49 = *51:37, *51:60           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:49, *51:63 = *51:60, *51:63           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:37, *51:89 = *51:37, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:37 = *51:32, *51:37        |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:08, *51:37 = *51:37, *51:37 =      |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:37, *51:63 = *51:37, *51:90 = *51:63, |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:90                                    |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:63, *51:89 = *51:63, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:63 = *51:32, *51:63        |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:08, *51:63 = *51:63, *51:63        |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:32, *51:49 = *51:32, *51:60           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:32, *51:50 = *51:32, *51:58           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:32, *51:78 = *51:32, *51:79           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:32, *51:85 = *51:32, *51:87           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:32, *51:89 = *51:32, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:32 = *51:01:08, *51:32 =   |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:32, *51:32                            |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:33, *51:49 = *51:33, *51:60           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:33, *51:50 = *51:33, *51:58           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:33, *51:78 = *51:33, *51:79           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:33, *51:85 = *51:33, *51:87           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:33, *51:89 = *51:33, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:33 = *51:01:08, *51:33 =   |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:33, *51:33 = *51:33, *51:39           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:39, *51:49 = *51:39, *51:60           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:39, *51:50 = *51:39, *51:58           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:39, *51:78 = *51:39, *51:79           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:39, *51:85 = *51:39, *51:87           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:39, *51:89 = *51:39, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:39 = *51:01:08, *51:39 =   |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:39, *51:39                            |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:49, *51:59 = *51:59, *51:60           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:50, *51:59 = *51:58, *51:59           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:59, *51:78 = *51:59, *51:79           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:59, *51:85 = *51:59, *51:87           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:59, *51:89 = *51:59, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:59 = *51:01:08, *51:59     |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:49, *51:61 = *51:60, *51:61           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:29, *51:49 = *51:29, *51:60           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:50, *51:61 = *51:58, *51:61           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:29, *51:50 = *51:29, *51:58           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:61, *51:78 = *51:61, *51:79           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:61, *51:85 = *51:61, *51:87           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:61, *51:89 = *51:61, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:61 = *51:01:08, *51:61 =   |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:29, *51:61 = *51:29, *51:90 = *51:48, |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:61 = *51:61, *51:61 = *51:61, *51:90  |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:29, *51:78 = *51:29, *51:79           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:29, *51:85 = *51:29, *51:87           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:29, *51:89 = *51:29, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:29 = *51:01:08, *51:29 =   |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:29, *51:29 = *51:29, *51:48           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:41N, *51:49 = *51:41N, *51:60         |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:41N, *51:50 = *51:41N, *51:58         |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:41N, *51:78 = *51:41N, *51:79         |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:41N, *51:85 = *51:41N, *51:87         |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:41N, *51:89 = *51:41N, *51:91         |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:41N = *51:01:08, *51:41N = |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:41N, *51:41N                          |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:42, *51:49 = *51:42, *51:60           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:42, *51:89 = *51:42, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:43, *51:49 = *51:43, *51:60           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:43, *51:50 = *51:43, *51:58           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:43, *51:78 = *51:43, *51:79           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:43, *51:85 = *51:43, *51:87           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:43, *51:89 = *51:43, *51:91           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:01:01, *51:43 = *51:01:08, *51:43 =   |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:43, *51:43                            |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:49, *51:55 = *51:55, *51:60           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:50, *51:55 = *51:55, *51:58           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:55, *51:78 = *51:55, *51:79           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:55, *51:85 = *51:55, *51:87           |
| +++++ -----+ -++-+--+-----+ +---+-----+ -----+ | *51:55, *51:89 = *51:55, *51:91           |

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## **Lot-specific Information**

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## SPECIFICITY TABLE

### HLA-B\*51 SSP subtyping

**Specificities and sizes of the PCR products of the 64 primer mixes used for HLA-B\*51 SSP subtyping**

| <b>Primer Mix</b>    | <b>Size of spec. PCR product<sup>1</sup></b> | <b>Size of control band<sup>2</sup></b> | <b>Amplified HLA-B*51 alleles<sup>3</sup></b>   | <b>Other amplified HLA-B alleles<sup>4</sup></b>  |
|----------------------|--|---|---|---|
| <b>1<sup>5</sup></b> | 105 bp                                       | <b>800 bp</b>                           | *51:01:01-51:06,<br>51:08-51:21, 51:23-<br>51:24:03, 51:26-<br>51:46, 51:48-51:95   | *08:32, 18:07:01-18:07:02, 18:29,<br>35:01:01:01-35:08:01, 35:08:03-<br>35:18, 35:21-35:24:02, 35:27,<br>35:29-35:45, 35:48, 35:50-35:62,<br>35:64-35:71, 35:74-35:75, 35:77,<br>35:79-35:81, 35:83-35:84, 35:86-<br>35:94, 35:96-35:99, 37:21, 38:06-<br>38:07, 44:06, 52:06:01-52:06:02,<br>53:01:01-53:08:02, 53:10-53:16,<br>53:18-53:23, 78:01-78:02:02,<br>78:04, 78:07   |
| <b>2<sup>5</sup></b> | 95 bp  | 1070 bp                                 | *51:01:01-51:01:17,<br>51:03-51:04, 51:06-<br>51:07:02, 51:11N-<br>51:14, 51:16-51:18,<br>51:21-51:22,<br>51:24:01-51:24:03,<br>51:26-51:30, 51:32-<br>51:33, 51:35, 51:37-<br>51:39, 51:41N, 51:43,<br>51:45-51:46, 51:48-<br>51:52, 51:55-51:58,<br>51:60-51:72, 51:74-<br>51:80, 51:82-51:92,<br>51:94-51:95 | *14:01:01-14:18, 15:37-15:38:02,<br>18:15, 18:19, 18:30, 35:21, 35:96,<br>40:28, 40:51, 49:09, 52:01:01-01-<br>52:02, 52:04-52:09, 52:12-52:18,<br>52:20, 53:06, 56:05:01-56:06,<br>56:21, 58:08, 78:01-78:03, 78:05-<br>78:07, <b>C*01:30</b>  |
| <b>3<sup>6</sup></b> | 265 bp                                       | 1070 bp                                 | *51:02:01-51:02:04,<br>51:05, 51:10, 51:15,<br>51:23, 51:34, 51:36,<br>51:40, 51:54, 51:93  | *07:78, 07:84, 08:09, 13:02:01-<br>13:04, 13:08Q-13:09, 13:14,<br>13:16, 13:18-13:19, 13:27, 13:30-<br>13:35, 13:37, 15:04, 15:16:01,<br>15:42, 15:67, 15:83, 15:95,<br>15:137, 15:155, 27:14, 35:37,<br>35:60, 39:06:01-39:06:02, 39:33-<br>39:34, 39:50, 39:57, 40:06:01:01-<br>40:06:02, 40:44, 40:53, 40:70,<br>40:75, 40:83, 40:86, 40:93,<br>40:95-40:96, 41:01, 41:05-41:07,<br>41:09, 41:12, 42:04, 44:15, 44:18, |

|                      |        |               |   |  |
|----------------------|--------|---------------|---|--|
|                      |        |               |   | 44:20, 44:47, 45:01-45:11, 46:11,<br>46:18, 49:01:01-49:08, 49:10,<br>50:01:01-50:02, 50:04-50:09,<br>52:03, 52:11, 54:01:01-54:05N,<br>54:07-54:08N, 54:10-54:22,<br>55:01:01-55:02:02, 55:02:04-<br>55:03, 55:05, 55:07, 55:09-55:13,<br>55:15-55:40, 56:01:01-56:01:04,<br>56:07-56:08, 56:13-56:17,<br>56:19N-56:20, 56:22-56:29,<br>59:01:01:01-59:05, 78:04  |
| <b>4</b>             | 255 bp | 1070 bp       | *51:03  |  |
| <b>5</b>             | 270 bp | 1070 bp       | *51:04, 51:46, 51:56  | *14:10, 18:22, 35:21, 35:24:01-<br>35:24:02, 35:81, 35:96,<br>37:04:01 <sup>w</sup> -37:04:02 <sup>w</sup> , 40:28,<br>53:02, 53:06, 57:14, 58:09  |
| <b>6</b>             | 210 bp | <b>800 bp</b> | *51:05 <sup>w</sup> , 51:09:01-<br>51:10, 51:15, 51:19,<br>51:31, 51:40, 51:54 <sup>w</sup> ,<br>51:73, 51:93 | *13:02:01-13:04, 13:08Q-13:09,<br>13:14-13:15, 13:18 <sup>w</sup> , 13:19,<br>13:27, 13:30, 13:32-13:35, 13:37,<br>15:155, 27:14, 35:37, 35:60,<br>39:06:01-39:06:02, 39:33 <sup>w</sup> , 39:34,<br>39:50, 39:57, 40:06:01:01-<br>40:06:02, 40:44, 40:53, 40:70,<br>40:75, 40:83, 40:86, 40:93, 40:96,<br>44:47, 46:11, 46:18, 52:03, 52:10,<br>54:01:01-54:05N, 54:07-54:08N,<br>54:10 <sup>w</sup> , 54:11-54:19, 54:21-<br>54:22, 55:02:01-55:02:05, 55:07,<br>55:10, 55:12-55:13, 55:16, 55:18-<br>55:19, 55:22-55:23, 55:26-55:27,<br>55:30, 55:32, 55:34-55:35,<br>55:37 <sup>w</sup> , 55:39, 56:01:01-56:01:04,<br>56:07-56:08, 56:14-56:17,<br>56:19N-56:20, 56:22-56:24,<br>56:26-56:29, 59:01:01:01-59:05,<br>73:01, 78:04 |
| <b>7</b>             | 270 bp | 1070 bp       | *51:06, 51:45, 51:62,<br>51:64  | *14:01:01-14:09, 14:11-14:18,<br>15:37-15:38:02, 15:185,<br>18:01:01-18:09, 18:12-18:15,<br>18:17N-18:20, 18:23N-18:34,<br>18:36-18:38, 18:40-18:49, 27:28,<br>27:62, 39:32, 39:43, 39:48, 40:51,<br><b>C*01:30</b>  |
| <b>8<sup>5</sup></b> | 105 bp | <b>800 bp</b> | *51:07:01-51:07:02  | *18:01:01-18:06, 18:08-18:15,<br>18:17N-18:28, 18:30-18:32,<br>18:34-18:36, 18:38-18:47, 18:49,<br>35:20:01-35:20:02, 35:28, 35:72,  |

|                          |                          |               |  |  |
|--------------------------|--------------------------|---------------|--|--|
|                          |                          |               |  | 35:95, 37:01:01-37:01:05,<br>37:01:07-37:05, 37:07-37:20,<br>37:22, 44:83, 49:03, 52:01:01:01-<br>52:01:05, 52:03-52:05, 52:07-<br>52:15, 52:17-52:20, 53:09,<br>53:17:01, 78:05-78:06   |
| <b>9<sup>5,6,9</sup></b> | 85 bp, 195<br>bp, 215 bp | 1070 bp       | *51:08, 51:17, 51:20,<br>51:35, 51:44N                   | *37:04:01-37:04:02, 52:19  |
| <b>10<sup>10</sup></b>   | 160 bp,<br>245 bp        | 1070 bp       | *51:01:09, 51:10,<br>51:21, 51:24:02-<br>51:24:03, 51:36 | *07:78, 07:84, 08:09, 15:42,<br>15:83, 27:14, 35:60, 39:06:01-<br>39:06:02, 39:34, 39:57,<br>40:06:01:01-40:06:02, 40:44,<br>40:53, 40:70, 40:75, 40:83, 40:86,<br>40:93, 40:96, 41:01, 41:05-41:07,<br>41:09, 41:12, 42:04, 45:08, 46:18,<br>54:01:01-54:02, 54:04-54:05N,<br>54:07-54:08N, 54:10-54:22,<br>55:01:01-55:03, 55:05, 55:07,<br>55:10-55:13, 55:15-55:21, 55:23,<br>55:25-55:40, 56:23, 59:01:01:01-<br>59:03, 59:05, 73:01, 78:07 |
| <b>11</b>                | 245 bp                   | 1070 bp       | *51:10, 51:16, 51:31,<br>51:34, 51:82, 51:93             | *07:78, 07:84, 13:02:01-13:02:07,<br>13:08Q-13:09, 13:14-13:16,<br>13:18-13:19, 13:27, 13:30-13:35,<br>13:37, 27:14, 39:50, 40:06:01:01-<br>40:06:02, 40:44, 40:53, 40:70,<br>40:75, 40:83, 40:86, 40:93,<br>40:95-40:96, 45:10, 49:07, 52:08,<br>55:09, 55:22, 55:24, 73:01   |
| <b>12</b>                | 495 bp                   | 1070 bp       | *51:11N  |  |
| <b>13</b>                | 200 bp                   | 1070 bp       | *51:12   |  |
| <b>14<sup>5</sup></b>    | 105 bp                   | 1070 bp       | *51:13:01-51:13:02,<br>51:92                             | *15:137, 39:06:01-39:06:02,<br>39:33-39:34, 39:50, 39:57, 40:86,<br>45:02, 50:09, 52:14, 55:13, 56:22,<br>59:03, 73:01   |
| <b>15<sup>5,11</sup></b> | 100 bp,<br>230 bp        | <b>800 bp</b> | *51:14, 51:19  | *39:06:01-39:06:02, 39:57  |
| <b>16</b>                | 180 bp                   | 1070 bp       | *51:15, 51:18, 51:35,<br>51:62                           | *13:03, 15:73, 40:71, 44:10,<br>44:15, 44:18, 45:01, 45:04-45:07,<br>45:11, 46:11, 49:01:01-49:03,<br>49:06, 49:08-49:10, 50:01:01-<br>50:02, 50:04-50:08, 54:03,<br>56:01:01-56:02, 56:04, 56:07-<br>56:08, 56:13-56:14, 56:16-56:17,<br>56:20, 56:24-56:29, 59:04, 82:01-<br>82:03   |

|                          |                              |               |   |  |
|--------------------------|------------------------------|---------------|---|--|
| <b>17<sup>5</sup></b>    | 105 bp                       | <b>800 bp</b> | *51:22  | *18:33, 35:82, 35:85, 39:19:01-39:19:02, 78:03   |
| <b>18<sup>12</sup></b>   | 140 bp,<br>220 bp            | <b>800 bp</b> | *51:08, 51:20, 51:28,<br>51:36, 51:44N  | *08:09, 15:83, 41:01, 41:05-41:07, 41:09, 41:12, 42:04, 44:15, 44:18, 44:20, 45:01-45:11, 52:19, 55:20, 56:13  |
| <b>19</b>                | 145 bp                       | <b>800 bp</b> | *51:10, 51:24:01-51:24:03   | *07:78, 07:84, 08:09, 40:06:01:01-40:06:02, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:96, 41:01, 41:05-41:07, 41:09, 41:12, 42:04, 54:11, 55:20, 56:20, 59:02, 73:01 |
| <b>20<sup>5</sup></b>    | 110 bp                       | 1070 bp       | *51:26  |  |
| <b>21<sup>13</sup></b>   | 130 bp,<br>185 bp            | 1070 bp       | *51:27N, 51:38  |  |
| <b>22</b>                | 160 bp                       | 1070 bp       | *51:01:01, 51:01:03-51:01:08, 51:01:10-51:02:01, 51:02:03-51:04, 51:06-51:07:01, 51:08-51:09:01, 51:10-51:14, 51:16-51:24:03, 51:26-51:46, 51:48-51:53, 51:55-51:88, 51:90-51:92, 51:94-51:95   | *07:65 <sup>w</sup> , 18:04, 35:42:02, 44:06, 53:06, 56:05:01 <sup>w</sup> , 56:06 <sup>w</sup> , 78:01, 78:02:02-78:03, 78:07   |
| <b>23</b>                | 210 bp                       | 1070 bp       |   | *07:65, 18:04, 35:42:02, 40:58, 56:05:01, 56:06, 78:01, 78:02:02-78:03, 78:07  |
| <b>24</b>                | 210 bp                       | 1070 bp       | *51:01:01, 51:01:03-51:01:08, 51:01:10-51:02:01, 51:02:03-51:04, 51:06-51:07:01, 51:08-51:09:01, 51:10-51:14, 51:16-51:24:03, 51:26-51:42, 51:43 <sup>w</sup> , 51:44N-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:88, 51:90-51:92, 51:94-51:95 | *44:06, 49:03, 52:01:02, 52:01:04, 52:02-52:03, 52:06:01-52:06:02, 52:09, 53:06, 58:08   |
| <b>25<sup>7,14</sup></b> | 130 bp,<br>175 bp,<br>205 bp | <b>800 bp</b> | *51:30, 51:38, 51:53  |  |

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|                          |                              |               |   |  |
|--------------------------|------------------------------|---------------|---|--|
| <b>26<sup>5,15</sup></b> | 105 bp,<br>155 bp            | 1070 bp       | *51:13:01-51:13:02,<br>51:32, 51:37, 51:63,<br>51:92  | *13:04, 15:04, 15:16:01, 15:67,<br>15:95, 15:137, 15:155, 35:37,<br>39:06:01-39:06:02, 39:33-39:34,<br>39:50, 39:57, 40:86, 45:02, 45:09,<br>49:04-49:05, 50:09, 52:14, 54:14,<br>55:13, 55:23, 55:32, 56:22, 59:03,<br>73:01  |
| <b>27<sup>16</sup></b>   | 205 bp,<br>270 bp,<br>345 bp | <b>800 bp</b> | *51:04, 51:33, 51:39,<br>51:46, 51:56   | *14:10, 18:22, 35:21, 35:24:01-<br>35:24:02, 35:81, 35:96,<br>37:04:01 <sup>w</sup> -37:04:02 <sup>w</sup> , 40:28,<br>44:24, 53:02, 53:06, 57:14, 58:09   |
| <b>28<sup>17</sup></b>   | 205 bp,<br>255 bp            | 1070 bp       | *51:23, 51:33   | *44:15, 44:18, 44:20, 44:47,<br>45:01-45:03, 45:05-45:07, 45:09,<br>45:11, 50:02, 52:15  |
| <b>29</b>                | 245 bp                       | 1070 bp       | *51:01:01-51:03,<br>51:05, 51:07:01-<br>51:09:02, 51:11N-<br>51:15, 51:17-51:20,<br>51:22-51:24:03,<br>51:26-51:30, 51:32-<br>51:33, 51:35, 51:37-<br>51:41N, 51:43-<br>51:44N, 51:48-51:55,<br>51:57-51:58, 51:60-<br>51:61, 51:63, 51:65-<br>51:80, 51:83-51:92,<br>51:94-51:95 | *13:03-13:04, 15:04, 15:16:01,<br>15:67, 15:95, 15:137, 15:155,<br>35:37, 39:33, 44:15, 44:18, 44:20,<br>44:47, 45:01-45:07, 45:09, 45:11,<br>46:11, 49:01:01-49:06, 49:08-<br>49:10, 50:01:01-50:02, 50:04-<br>50:09, 52:01:01:01-52:07, 52:09-<br>52:20, 54:03, 56:01:01-56:01:04,<br>56:05:01-56:08, 56:13-56:17,<br>56:20-56:22, 56:24-56:29, 58:08,<br>59:04, 78:01-78:06 |
| <b>30<sup>5</sup></b>    | 105 bp                       | <b>800 bp</b> | *51:06, 51:56, 51:59,<br>51:64  | *07:02:11, 07:05:03, 15:01:02,<br>15:09, 40:01:06, 40:26, 44:62  |
| <b>31<sup>5,18</sup></b> | 105 bp,<br>225 bp            | 1070 bp       | *51:05, 51:13:01-<br>51:13:02, 51:29,<br>51:37, 51:54, 51:61,<br>51:63, 51:82, 51:92  | *07:78, 07:84, 13:04, 13:18,<br>13:31, 15:04, 15:16:01, 15:67,<br>15:95, 15:137, 15:155, 35:37,<br>39:06:01-39:06:02, 39:33-39:34,<br>39:50, 39:57, 40:86, 45:02, 45:09,<br>49:04-49:05, 50:09, 52:14, 54:10,<br>54:14, 54:20, 55:09, 55:13, 55:21,<br>55:23, 55:32, 55:37, 56:22, 59:03,<br>73:01   |
| <b>32</b>                | 165 bp                       | 1070 bp       | *51:16, 51:31, 51:34,<br>51:82, 51:93   | *07:02:11, 07:05:03, 27:04:03,<br>40:01:06, 40:95, 52:08   |
| <b>33</b>                | 195 bp                       | 1070 bp       | *51:41N   |  |
| <b>34</b>                | 260 bp                       | 1070 bp       | *51:42  | *35:45, 35:71, 44:02:01:01-<br>44:02:07, 44:02:09-44:14, 44:17,<br>44:19N, 44:21-44:30, 44:32-<br>44:36, 44:38-44:40, 44:43:01-<br>44:46, 44:48-44:53, 44:55-44:63,  |

|                    |                   |         |  |   |
|--------------------|-------------------|---------|--|---|
|                    |                   |         |  | 44:66-44:90, 44:92-44:98, 53:22,<br>57:07, 83:01, <b>C*15:25</b>  |
| 35                 | 225 bp            | 1070 bp |  | *08:49, 08:60, 35:38, 37:01:01-<br>37:01:07, 37:03N-37:06, 37:08,<br>37:10-37:22, 42:13, 44:02:01:01-<br>44:02:13, 44:05:01-44:06, 44:08-<br>44:09, 44:11-44:12, 44:14, 44:16-<br>44:17, 44:19N, 44:21-44:25,<br>44:27:01, 44:33-44:34, 44:42,<br>44:44, 44:48-44:49, 44:51-44:53,<br>44:55, 44:58N-44:59, 44:62-<br>44:63, 44:66-44:68, 44:70-44:75,<br>44:78, 44:80, 44:83-44:84, 44:86-<br>44:91, 44:93, 44:95, 44:97, 53:22,<br>57:09, 57:24, 83:01, <b>C*15:25</b> |
| 36                 | 215 bp            | 1070 bp | *51:43   |   |
| 37 <sup>8,19</sup> | 165 bp,<br>225 bp | 1070 bp | *51:44N, 51:55   |   |
| 38                 | 205 bp            | 1070 bp | *51:37, 51:45, 51:63   | *15:38:01-15:38:02, 15:185,<br>18:01:01-18:09, 18:12-18:15,<br>18:17N-18:20, 18:22-18:25,<br>18:27-18:34, 18:36-18:40, 18:42-<br>18:49, 35:21, 35:24:01-35:24:02,<br>39:43, 53:02, 53:06, 57:14, 58:09  |
| 39                 | 250 bp            | 1070 bp | *51:46, 51:64-51:65  | *14:05, 14:13, 18:14  |
| 40                 | 185 bp            | 1070 bp | *51:01:01-51:24:03,<br>51:26-51:46, 51:48-<br>51:53, 51:55-51:59,<br>51:61-51:72, 51:74-<br>51:77, 51:79-51:95 | *07:36, 07:38, 07:81, 15:13,<br>15:17:01:01-15:17:02, 15:24,<br>15:87, 15:157, 15:162, 15:168,<br>15:177, 44:06, 48:18, 49:03,<br>52:01:01:01-52:19, 53:01:01-<br>53:02, 53:04-53:08:02, 53:10,<br>53:14-53:23, 57:01:01-57:11,<br>57:13-57:31, 58:01:01-58:02,<br>58:04-58:16, 58:18-58:28   |
| 41 <sup>20</sup>   | 225 bp,<br>315 bp | 1070 bp | *51:05, 51:29, 51:48,<br>51:54, 51:61, 51:82   | *07:78, 07:84, 13:18, 13:31,<br>15:04, 15:137, 39:33, 54:10,<br>54:20, 55:09, 55:21, 55:37,<br><b>C*08:24</b>   |
| 42 <sup>5,21</sup> | 100 bp,<br>135 bp | 800 bp  | *51:49, 51:60  |   |
| 43 <sup>5,22</sup> | 115 bp,<br>215 bp | 800 bp  | *51:50, 51:58  |   |
| 44 <sup>23</sup>   | 280 bp,<br>385 bp | 800 bp  | *51:51, 51:76  | *08:39  |
| 45                 | 190 bp            | 1070 bp | *51:52   |   |
| 46 <sup>5</sup>    | 80 bp             | 800 bp  | *51:57   |   |

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|                          |                  |               |   |   |
|--------------------------|------------------|---------------|---|---|
| <b>47<sup>5</sup></b>    | 125 bp           | <b>800 bp</b> | *51:20  | *07:65, 08:32, 18:03, 35:29, 35:69, 35:76, 39:19:01-39:19:02, 53:23, 56:06, 78:01, 78:03, 78:07   |
| <b>48<sup>5,24</sup></b> | 95 bp,<br>220 bp | 1070 bp       | *51:37, 51:61, 51:90, 51:92   | *07:84, 13:04, 13:31, 13:35, 15:04, 15:16:01, 15:67, 15:95, 15:137, 15:155, 35:37, 40:44, 44:20, 44:47, 45:09, 49:04-49:05, 52:12, 54:14-54:16, 55:21, 55:23, 55:27   |
| <b>49</b>                | 160 bp           | 1070 bp       | *51:01:02, 51:01:09, 51:02:02, 51:05, 51:07:02, 51:09:02, 51:15, 51:54, 51:93 | *07:56, 07:72, 08:26, 08:56, 15:02:01-15:02:04, 15:08, 15:11:01-15:11:04, 15:13, 15:15, 15:21, 15:31, 15:44, 15:55, 15:76, 15:88-15:89, 15:112, 15:121, 15:139, 15:143-15:144, 15:148, 15:170, 15:189, 15:191, 18:29, 35:01:01:01-35:09:02, 35:11:01-35:12:02, 35:14:01-35:15, 35:17-35:24:02, 35:26-35:27, 35:29-35:42:01, 35:43:01-35:62, 35:64-35:68:02, 35:70-35:72, 35:74-35:79, 35:81-35:83, 35:85-35:89, 35:91-35:99, 53:01:01-53:05, 53:07-53:16, 53:18-53:23, 54:01:01-54:20, 54:22, 55:01:01-55:05, 55:07-55:09, 55:11-55:17, 55:19-55:33, 55:35, 55:37-55:39, 56:01:01-56:04, 56:05:02, 56:07, 56:09-56:13, 56:15, 56:17-56:29, 59:01:01:01-59:05, 78:02:01, 78:04 |
| <b>50</b>                | 155 bp           | 1070 bp       | *51:81  | *07:02:01-07:02:13, 07:02:15-07:06, 07:08-07:11, 07:13, 07:15-07:17, 07:19-07:21, 07:23-07:67N, 07:69-07:76, 07:79-07:83, 07:85-07:99, 08:01:02, 08:06, 08:20, 27:07, 27:11, 27:24, 27:32-27:34, 27:43, 35:31, 37:07, 37:09, 40:02:01-40:03, 40:05, 40:08-40:09, 40:13, 40:15-40:16, 40:18-40:19, 40:24, 40:27:01, 40:29, 40:31-40:32, 40:35, 40:37, 40:39-40:40, 40:45, 40:50, 40:56-40:58, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97-40:98, 48:01:01-48:01:02, 48:04-48:11, 48:13, 48:15-48:16, 48:18-48:20,   |

|                    |                   |         |  |  |
|--------------------|-------------------|---------|--|--|
|                    |                   |         |  | 48:22, 55:04, 58:27, 81:01-81:04N, C*03:05, C*03:25, C*03:27, C*08:08  |
| 51 <sup>5,25</sup> | 85 bp,<br>215 bp  | 800 bp  | *51:68, 51:72  |  |
| 52                 | 150 bp            | 1070 bp | *51:69   |  |
| 53 <sup>26</sup>   | 165 bp,<br>260 bp | 1070 bp | *51:70-51:71   |  |
| 54 <sup>5,7</sup>  | 120 bp            | 1070 bp | *51:74   | *35:46-35:47, 40:07-40:08, 40:13, 40:68  |
| 55 <sup>5,27</sup> | 75 bp,<br>200 bp  | 1070 bp | *51:75, 51:77  |  |
| 56                 | 380 bp            | 1070 bp | *51:01:01-51:01:07,<br>51:01:09-51:01:14,<br>51:01:16-51:12,<br>51:16-51:24:03,<br>51:26-51:36, 51:38-<br>51:41N, 51:43-<br>51:44N, 51:46,<br>51:48-51:49, 51:51-<br>51:53, 51:55-51:61,<br>51:64-51:77, 51:79-<br>51:84, 51:86-51:89,<br>51:91, 51:93-51:95 | *08:03, 08:52, 40:13, 40:19,<br>48:18, 52:01:01:01-52:11, 52:13,<br>52:15-52:19, 53:19, 56:21,<br>57:02:01-57:03:02, 57:05, 57:07,<br>57:09, 57:17, 58:08, 58:27-58:28,<br>59:02 |
| 57 <sup>28</sup>   | 145 bp,<br>210 bp | 1070 bp | *51:78-51:79   | *44:02:10, 44:34   |
| 58                 | 165 bp            | 1070 bp | *51:80   |  |
| 59 <sup>5,29</sup> | 120 bp,<br>240 bp | 1070 bp | *51:83, 51:88  |  |
| 60 <sup>5,30</sup> | 85 bp,<br>190 bp  | 1070 bp | *51:84, 51:94  |  |
| 61 <sup>5,31</sup> | 100 bp,<br>210 bp | 1070 bp | *51:85, 51:87  | *27:14, 44:20, 44:47   |
| 62 <sup>32</sup>   | 175 bp,<br>250 bp | 1070 bp | *51:86, 51:95  | *39:57   |
| 63 <sup>5,33</sup> | 70 bp,<br>175 bp  | 1070 bp | *51:89, 51:91  |  |
| 64 <sup>5,34</sup> | 115 bp,<br>170 bp | 1070 bp | *51:66-51:67   |  |

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B\*51 SSP typings.

When the primers in a primer mix can give rise to 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, e.g. the primers in wells number 4, 5, 6, 7, 8, 9, 15, 17, 18 and 19 have a higher tendency of giving rise to

nonspecific amplifications than other primers.

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherit 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\*51 subtyping.

In addition, wells number 6, 8, 15, 17 to 19, 25, 27, 30, 42 to 44, 46, 47 and 51 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>For several HLA-B alleles fourth exon nucleotide sequences are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in the fourth exon are conserved within allelic groups.

The B\*51:51 and 51:76 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 44.

The B\*51:66 and 51:67 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 64.

The B\*51:68 and 51:72 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 51.

The B\*51:70 and 51:71 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 53.

The B\*51:75 and 51:77 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 55.

The B\*51:83 and 51:88 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 59.

The B\*51:84 and 51:94 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

The B\*51:86 and 51:95 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 62.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B\*51 alleles will be amplified by many the HLA-B\*51 primer mixes.

<sup>5</sup>Short specific PCR fragments are less intense and not as sharp as longer specific bands.

<sup>6</sup>Primer mixes 3 and 9 may give a lower yield of specific PCR product than the other HLA-B\*51 mixes.

<sup>7</sup>Primer mixes 25 and 54 have a tendency to giving rise to nonspecific amplifications.

<sup>8</sup>Primer mix 37 has a tendency to giving rise to primer oligomer formation.

<sup>9</sup>Primer mix 9: Specific PCR fragment of 85 bp in the B\*51:08, 51:20 and 51:44N and in the B\*37:04:01-37:04:02 and 52:19 alleles. Specific PCR fragment of 195 bp in the B\*51:35 allele. Specific PCR fragment of 215 bp in the B\*51:17 allele.

<sup>10</sup>Primer mix 10: Specific PCR fragment of 160 bp in the B\*51:01:09, 51:10 and 51:24:02-51:24:03 and in the B\*07:78, 07:84, 27:14, 40:06:01:01-40:06:02, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:96 and 73:01 alleles. Specific PCR fragment of 245 bp in the B\*51:21, 51:36, 08:09, 15:42, 15:83, 35:60, 39:06:01-39:06:02, 39:34, 39:57, 41:01, 41:05-41:07, 41:09, 41:12, 42:04, 45:08, 46:18, 54:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10, 54:12-54:22, 55:01:01-55:03, 55:05, 55:07, 55:10-55:13, 55:15-55:21, 55:23, 55:25-55:40, 56:23, 59:01-59:03, 59:05 and 78:07 alleles. Specific PCR fragment of 160 and 245 bp in the B\*54:11 allele.

<sup>11</sup>Primer mix 15: Specific PCR fragment of 100 bp in the B\*51:14 allele. Specific PCR fragment of 230 bp in the B\*51:19 and in the B\*39:06:01-39:06:02 and 39:57 alleles.

<sup>12</sup>Primer mix 18: Specific PCR fragment of 140 bp in the B\*51:28 allele. Specific PCR fragment of 220 bp in the B\*51:08, 51:20, 51:36 and 51:44N and in the B\*08:09, 15:83, 41:01, 41:05-41:07, 41:09, 41:12, 42:04, 44:15, 44:18, 44:20, 45:01-45:11, 52:19, 55:20 and 56:13 alleles.

**Lot No.: 48M****Lot-specific Information****[www.olerup-ssp.com](http://www.olerup-ssp.com)**

<sup>13</sup>Primer mix 21: Specific PCR fragment of 130 bp in the B\*51:38 allele. Specific PCR fragment of 185 bp in the B\*51:27N allele.

<sup>14</sup>Primer mix 25: Specific PCR fragment of 130 bp in the B\*51:38 allele. Specific PCR fragment of 175 bp in the B\*51:30 allele. Specific PCR fragment of 205 bp in the B\*51:53 allele.

<sup>15</sup>Primer mix 26: Specific PCR fragment of 105 bp in the B\*51:13:01-51:13:02, 51:37, 51:63 and 51:92 and in the B\*13:04, 15:04, 15:16, 15:67, 15:95, 15:137, 15:155, 35:37, 39:06:01-39:06:02, 39:33-39:34, 39:50, 39:57, 40:86, 45:02, 45:09, 49:04-49:05, 50:09, 52:14, 54:14, 55:13, 55:23, 55:32, 56:22, 59:03 and 73:01 alleles. Specific PCR fragment of 155 bp in the B\*51:32 allele.

<sup>16</sup>Primer mix 27: Specific PCR fragment of 205 bp in the B\*51:33 allele. Specific PCR fragment of 270 bp in the B\*51:04, 51:46 and 51:56 and in the B\*14:10, 18:22, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 37:04:01-37:04:02, 40:28, 53:02, 53:06, 57:14 and 58:09 alleles. Specific PCR fragment of 345 bp in the B\*51:39 and B\*44:24 alleles.

<sup>17</sup>Primer mix 28: Specific PCR fragment of 205 bp in the B\*51:33 allele. Specific PCR fragment of 255 bp in the B\*51:23 and in the B\*44:15, 44:18, 44:20, 44:47, 45:01-45:03, 45:05-45:07, 45:09, 45:11, 50:02 and 52:15 alleles.

<sup>18</sup>Primer mix 31: Specific PCR fragment of 105 bp in the B\*51:13:01-51:13:02, 51:37, 51:63, 51:92, 13:04, 15:16, 15:67, 15:95, 15:155, 35:37, 39:06:01-39:06:02, 39:34, 39:50, 39:57, 40:86, 45:02, 45:09, 49:04-49:05, 50:09, 52:14, 54:14, 55:13, 55:23, 55:32, 56:22, 59:03, 73:01 alleles. Specific PCR fragment of 225 bp in the B\*51:05, 51:29, 51:54, 51:61 and 51:82 and in the B\*07:78, 07:84, 13:18, 13:31, 54:10, 54:20, 55:09, 55:21 and 55:37 alleles. Specific PCR fragment of 105 and 225 bp in the B\*15:04, 15:137 and 39:33 alleles.

<sup>19</sup>Primer mix 37: Specific PCR fragment of 165 bp in the B\*51:44N allele. Specific PCR fragment of 225 bp in the B\*51:55 allele.

<sup>20</sup>Primer mix 41: Specific PCR fragment of 225 bp in the B\*51:05, 51:29, 51:54, 51:61 and 51:82 and in the B\*07:78, 07:84, 13:18, 13:31, 15:04, 15:137, 39:33, 54:10, 54:20, 55:09, 55:21 and 55:37 alleles. Specific PCR fragment of 315 bp in the B\*51:48 and C\*08:24 alleles.

<sup>21</sup>Primer mix 42: Specific PCR fragment of 100 bp in the B\*51:60 allele. Specific PCR fragment of 135 bp in the B\*51:49 allele.

<sup>22</sup>Primer mix 43: Specific PCR fragment of 115 bp in the B\*51:58 allele. Specific PCR fragment of 215 bp in the B\*51:50 allele.

<sup>23</sup>Primer mix 44: Specific PCR fragment of 280 bp in the B\*51:76 and B\*08:39 alleles. Specific PCR fragment of 385 bp in the B\*51:51 allele.

<sup>24</sup>Primer mix 48: Specific PCR fragment of 95 bp in the B\*51:37, 51:90 and 51:92 and in the B\*07:84, 13:04, 13:35, 15:16, 15:67, 15:95, 15:155, 35:37, 40:44, 44:20, 44:47, 45:09, 49:04-49:05, 52:12, 54:14-54:16, 55:23 and 55:27 alleles. Specific PCR fragment of 220 bp in the B\*51:61 and in the B\*13:31, 15:137 and 55:21 alleles. Specific PCR fragment of 95 and 220 bp in the B\*15:04 allele.

<sup>25</sup>Primer mix 51: Specific PCR fragment of 85 bp in the B\*51:68 allele. Specific PCR fragment of 215 bp in the B\*51:72 allele.

<sup>26</sup>Primer mix 53: Specific PCR fragment of 165 bp in the B\*51:71 allele. Specific PCR fragment of 260 bp in the B\*51:70 allele.

<sup>27</sup>Primer mix 55: Specific PCR fragment of 75 bp in the B\*51:77 allele. Specific PCR fragment of 200 bp in the B\*51:75 allele.

<sup>28</sup>Primer mix 57: Specific PCR fragment of 145 bp in the B\*51:79 allele. Specific PCR fragment of 210 bp in the B\*51:78 and in the B\*44:02:10 and 44:34 alleles.

<sup>29</sup>Primer mix 59: Specific PCR fragment of 120 bp in the B\*51:83 allele. Specific PCR fragment of 240 bp in the B\*51:88 allele.

<sup>30</sup>Primer mix 60: Specific PCR fragment of 85 bp in the B\*51:94 allele. Specific PCR fragment of 190 bp in the B\*51:84 allele.

<sup>31</sup>Primer mix 61: Specific PCR fragment of 100 bp in the B\*51:85 and in the B\*27:14, 44:20 and 44:47 alleles. Specific PCR fragment of 210 bp in the B\*51:87 allele.

<sup>32</sup>Primer mix 62: Specific PCR fragment of 175 bp in the B\*51:86 allele. Specific PCR fragment of 250 bp in the B\*51:95 and in the B\*39:57 alleles.

<sup>33</sup>Primer mix 63: Specific PCR fragment of 70 bp in the B\*51:91 allele. Specific PCR fragment of 175 bp in the B\*51:89 allele.

<sup>34</sup>Primer mix 64: Specific PCR fragment of 115 bp in the B\*51:67 allele. Specific PCR fragment of 170 bp in the B\*51:66 allele.

'w', might be weakly amplified.

## INTERPRETATION TABLE

HLA-B\*51 SSP subtyping  
Amplification patterns of the B\*51:01 to B\*51:95 alleles

|   | Well <sup>3</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   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32   |      |     |
| Length of spec.   | 105               | 95   | 265  | 255  | 270  | 210 | 270  | 105 | 85   | 160  | 245  | 495  | 200  | 105  | 230  | 100  | 180 | 105 | 140 | 145  | 110  | 185  | 130  | 160  | 210  | 210  | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 165 |
| PCR product(s)  |                   |      |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| Length of int.<br>pos. control <sup>1</sup>                               | 800               | 1070 | 1070 | 1070 | 1070 | 800 | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 800 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 |     |
| 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   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32   |      |     |
| HLA-B allele <sup>2</sup>   |                   |      |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| *51:01:01, 51:01:03-51:01:07,<br>51:01:10-51:01:14, 51:01:16-<br>51:01:17 | 1                 | 2    |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:01:02   | 1                 | 2    |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:01:08, 51:01:15   | 1                 | 2    |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:01:09   | 1                 | 2    |      |      |      |     |      |     | 10   |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:02:01, 51:02:03-51:02:04  | 1                 | 3    |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:02:02   | 1                 | 3    |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:03  | 1                 | 2    | 4    |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:04  | 1                 | 2    |      | 5    |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 27   |     |
| *51:05  | 1                 | 3    |      | w    |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:06  | 1                 | 2    |      |      | 7    |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 30   |     |
| *51:07:01   | 2                 |      |      |      | 8    |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:07:02   | 2                 |      |      |      | 8    |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:08  | 1                 |      |      |      |      | 9   |      |     |      |      |      |      |      |      |      |      |     | 18  |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:09:01   | 1                 |      |      |      | 6    |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:09:02   | 1                 |      |      |      | 6    |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:10  | 1                 | 3    |      | 6    |      | 10  | 11   |     |      |      |      |      |      |      |      |      |     | 19  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| *51:11N   | 1                 | 2    |      |      |      |     |      |     | 12   |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:12  | 1                 | 2    |      |      |      |     |      |     | 13   |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:13:01-51:13:02  | 1                 | 2    |      |      |      |     |      |     | 14   |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 31   |     |
| *51:14  | 1                 | 2    |      |      |      |     |      |     | 15   |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:15  | 1                 | 3    |      | 6    |      |     |      |     |      | 16   |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:16  | 1                 | 2    |      |      |      | 11  |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 32   |     |
| *51:17  | 1                 | 2    |      |      | 9    |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:18  | 1                 | 2    |      |      |      | 16  |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:19  | 1                 |      |      | 6    |      |     |      |     | 15   |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:20  | 1                 |      |      |      | 9    |     |      |     |      | 18   |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:21  | 1                 | 2    |      |      | 10   |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:22  | 2                 |      |      |      |      |     |      |     |      | 17   |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:23  | 1                 | 3    |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 28  |
| *51:24:01   | 1                 | 2    |      |      |      |     |      |     |      |      | 19   |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:24:02-51:24:03  | 1                 | 2    |      |      | 10   |     |      |     |      |      | 19   |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      | 29   |      |     |
| *51:26  | 1                 | 2    |      |      |      |     |      |     |      |      | 20   |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:27N   | 1                 | 2    |      |      |      |     |      |     |      |      |      | 21   |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:28  | 1                 | 2    |      |      |      |     |      |     |      |      |      | 22   |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:29  | 1                 | 2    |      |      |      |     |      |     |      |      |      | 22   |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 31   |     |
| *51:30  | 1                 | 2    |      |      |      |     |      |     |      |      |      | 22   |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:31  | 1                 |      |      | 6    |      | 11  |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 32   |     |
| *51:32  | 1                 | 2    |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 29  |
| *51:33  | 1                 | 2    |      |      |      |     |      |     |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 27  |
| *51:34  | 1                 | 3    |      |      |      |     |      | 11  |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:35  | 1                 | 2    |      |      |      | 9   |      |     |      | 16   |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:36  | 1                 | 3    |      |      |      | 10  |      |     |      |      | 18   |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 31   |     |
| *51:37  | 1                 | 2    |      |      |      |     |      |     |      |      |      | 22   |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:38  | 1                 | 2    |      |      |      |     |      |     |      |      |      | 21   |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:39  | 1                 | 2    |      |      |      |     |      |     |      |      |      |      | 22   |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:40  | 1                 | 3    |      | 6    |      |     |      |     |      |      |      |      | 22   |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:41N   | 1                 | 2    |      |      |      |     |      |     |      |      |      |      | 22   |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:42  | 1                 |      |      |      |      |     |      |     |      |      |      |      | 22   |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:43  | 1                 | 2    |      |      |      |     |      |     |      |      |      |      | 22   | w    |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| *51:44N   | 1                 |      |      |      |      | 9   |      |     |      |      |      |      | 18   |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | 29   |     |
| 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   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32   |      |     |

| INTERPRETATION TABLE                                     |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  |  |            |                              |           |         |        |           |           |        |           |           |        |
|--|------|------|------|------|------|------|------|------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|----------|--|--|------------|------------------------------|-----------|---------|--------|-----------|-----------|--------|-----------|-----------|--------|
| HLA-B*51 SSP subtyping                                   |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  |  |            |                              |           |         |        |           |           |        |           |           |        |
| Amplification patterns of the B*51:01 to B*51:95 alleles |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  |  |            |                              |           |         |        |           |           |        |           |           |        |
| Well <sup>3</sup>  |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  |  |            |                              |           |         |        |           |           |        |           |           |        |
| 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     |           |           |        |           |           |        |
| 195  | 260  | 225  | 215  | 165  | 205  | 250  | 185  | 225  | 135 | 100 | 115 | 80  | 125  | 95   | 190  | 160  | 155  | 85   | 150  | 260  | 165  | 120  | 200  | 210      | 145                                      | 165  | 120        | 190                          | 210       | 100     | 250    | 175       | 175       | 70     | 115       |           |        |
| 1070   | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 800 | 800 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070     | 1070                                     | 1070   | 1070       | 1070                         | 1070      | 1070    | 1070   | 1070      | 1070      | 1070   |           |           |        |
| 1070   | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 800 | 800 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070     | 1070                                     | 1070   | 1070       | 1070                         | 1070      | 1070    | 1070   | 1070      | 1070      | 1070   |           |           |        |
| 41   | 42   | 43   | 44   | 45   | 46   | 47   | 48   | 49   | 50  | 51  | 52  | 53  | 54   | 55   | 56   | 57   | 58   | 59   | 60   | 61   | 62   | 63   | 64   | Well No. | Length of spec. PCR product(s)           |  |            |                              |           |         |        |           |           |        |           |           |        |
| 40   |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          | Length of int. pos. control <sup>1</sup> | HLA-B allele <sup>2</sup>  |            |                              |           |         |        |           |           |        |           |           |        |
|  |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  | *51:01:01, 51:01:03-51:01:07, 51:01:10-51:01:14, 51:01:16-51:01:17 | *51:01:02  | *51:01:08, 51:01:15          | *51:01:09 |         |        |           |           |        |           |           |        |
|  |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  | *51:02:01, 51:02:03-51:02:04                                       | *51:02:02  | *51:03                       | *51:04    | *51:05  | *51:06 | *51:07:01 | *51:07:02 | *51:08 | *51:09:01 | *51:09:02 | *51:10 |
|  |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  | *51:11N  | *51:12     | *51:13:01-51:13:02           | *51:14    | *51:15  | *51:16 | *51:17    | *51:18    | *51:19 | *51:20    | *51:21    | *51:22 |
|  |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  | *51:23   | *51:24:01  | *51:24:02-51:24:03           | *51:26    | *51:27N | *51:28 | *51:29    | *51:30    | *51:31 | *51:32    | *51:33    | *51:34 |
|  |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  | *51:35   | *51:36     | *51:37                       | *51:38    | *51:39  | *51:40 | *51:41N   | *51:42    | *51:43 | *51:44N   | Well No.  |        |
|  |      |      |      |      |      |      |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |          |  | August 2011<br>Rev. No.: 00u                                       | CE<br>0088 | For In Vitro Diagnostic Use. |           |         |        |           |           |        |           |           |        |

Lot No.: 48M

## Lot-specific Information

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

| 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 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |    |    |  |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|--|
| *51:45  | 1 | 2 |   |   |   |   | 7 |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    |    |    |  |    |    |  |
| *51:46  | 1 | 2 |   |   |   | 5 |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    | 27 |    |    |    |    |    |    |    |    |  |    |    |  |
| *51:48  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:49  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:50  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:51, 51:76 <sup>4</sup>  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:52  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:53  | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 | 25 |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:54  | 1 |   | 3 |   |   | w |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29 | 31 |    |  |    |    |  |
| *51:55  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:56  | 1 | 2 |   |   | 5 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 | 27 |    | 30 |    |    |    |    |    |    |    |  |    |    |  |
| *51:57  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:58  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:59  | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    | 30 |    |    |    |    |    |    |    |  |    |    |  |
| *51:60  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    | 29 |    |    |    |    |    |    |    |  |    |    |  |
| *51:61  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    | 29 | 31 |    |    |    |    |    |    |  |    |    |  |
| *51:62  | 1 | 2 |   |   |   | 7 |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    |    |    |  |    |    |  |
| *51:63  | 1 | 2 |   |   |   |   | 7 |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 | 26 |    | 29 | 31 |    |    |    |    |    |    |  |    |    |  |
| *51:64  | 1 | 2 |   |   |   |   |   | 7 |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    | 30 |    |    |    |    |    |    |    |  |    |    |  |
| *51:65  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:66, 51:67 <sup>5</sup>  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:68, 51:72 <sup>6</sup>  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:69  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:70, 51:71 <sup>7</sup>  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:73  | 1 |   |   |   | 6 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:74  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:75, 51:77 <sup>8</sup>  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:78  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 |    |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:79  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:80  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:81  | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    |    |    |  |    |    |  |
| *51:82  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 31 | 32 |  |    |    |  |
| *51:83, 51:88 <sup>9</sup>  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:84, 51:94 <sup>10</sup>   | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:85  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:86, 51:95 <sup>11</sup>   | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:87  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:89  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29 |  |    |    |  |
| *51:90  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:91  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    | 29 |    |  |    |    |  |
| *51:92  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 | 26 |    | 29 | 31 |    |    |    |    | 32 |    |  |    |    |  |
| *51:93  | 1 | 3 |   |   | 6 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |    |  |
| *07:02:01-07:02:10, 07:02:12-07:02:13, 07:02:15-07:05:02, 07:05:04-07:06, 07:08-07:11, 07:13, 07:15-07:17, 07:19-07:21, 07:23-07:35, 07:37, 07:39-07:55, 07:57-07:64, 07:66-07:67N, 07:69-07:71, 07:73-07:76, 07:79-07:80, 07:82-07:83, 07:85-07:99, 08:01:02, 08:06, 08:20, 27:07, 27:11, 27:24, 27:32-27:34, 27:43, 40:02:01-40:03, 40:05, 40:09, 40:15-40:16, 40:18, 40:24, 40:27:01, 40:29, 40:31-40:32, 40:35, 40:37, 40:39-40:40, 40:45, 40:50, 40:56-40:57, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97-40:98, 48:01:01-48:01:02, 48:04-48:11, 48:13, 48:15-48:16, 48:19-48:20, 48:22, 81:01-81:04N, C*03:05, C*03:25, C*03:27, C*08:08 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |    |  |
| *07:02:11, 07:05:03   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | 30 | 32 |  |
| *07:36, 07:38, 07:81  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |    |  |
| *07:56, 07:72, 55:04  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |    |  |
| 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 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |    |    |  |

Lot No.: 48M

## Lot-specific Information

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| 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                         |                            | Well No. |                             |  |  |  |  |  |  |  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------------|----------------------------|----------|-----------------------------|--|--|--|--|--|--|--|
|    |    |    |    |    | 38 | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:45                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    | 39 | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:46                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    | 40 | 41 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:48                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    | 40 | 42 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:49                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    | 40 | 43 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:50                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    | 40 | 44 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:51, 51:76 <sup>4</sup> |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    | 40 | 45 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:52                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:53                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:54                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:55                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:56                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:57                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    | 43 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:58                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:59                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    | 42 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:60                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:61                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:62                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 38 | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:63                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 39 | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:64                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    | 39 | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *51:65                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:66, 51:67 <sup>5</sup> |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:68, 51:72 <sup>6</sup> |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:69                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:70, 51:71 <sup>7</sup> |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:73                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:74                     |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |                            | *51:75, 51:77 <sup>8</sup> |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 54 | 56 |    |    |    |    |    |    |    |    |    |    | *51:78                     |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 55 | 56 |    |    |    |    |    |    |    |    |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 57 |    |    |    |    |    |    |    |    |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:79                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:80                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:81                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:82                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:83, 51:88 <sup>9</sup>  |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:84, 51:94 <sup>10</sup> |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:85                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:86, 51:95 <sup>11</sup> |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:87                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:89                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:90                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:91                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:92                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48 |    |    |    |    |    |    |    |    |    |                            |                            |          | *51:93                      |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50 |    |    |    |    |    |    |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50 |    |    |    |    |    |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50 |    |    |    |    |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50 |    |    |    |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50 |    |    |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50 |    |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50 |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                            |                            |          |                             |  |  |  |  |  |  |  |

Well No.

Lot No.: 48M

## Lot-specific Information

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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 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |    |
|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *07:65  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | w  | 23 |    |    |    |    |    |    |    |    |    |
| *07:78  |   |   | 3 |   |   |   |   |    | 10 | 11 |    |    |    |    |    |    |    | 19 |    |    |    |    |    |    |    |    |    |    |    |    | 31 |    |    |
| *07:84  |   |   | 3 |   |   |   |   |    | 10 | 11 |    |    |    |    |    |    |    | 19 |    |    |    |    |    |    |    |    |    |    |    |    | 31 |    |    |
| *08:03, 08:52   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *08:09, 41:01, 41:05-41:07, 41:09, 41:12, 42:04   |   |   | 3 |   |   |   |   |    | 10 |    |    |    |    |    |    |    | 18 | 19 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *08:26, 08:56, 15:02:01-15:02:04, 15:08, 15:11:01-15:11:04, 15:15, 15:21, 15:31, 15:44, 15:55, 15:76, 15:88-15:89, 15:112, 15:121, 15:139, 15:143-15:144, 15:148, 15:170, 15:189, 15:191, 35:08:02, 35:19, 35:26, 35:49, 35:78, 54:06, 54:09, 55:08, 55:14, 56:03, 56:09-56:12, 56:18 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *08:32, 35:69   | 1 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *08:39  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *08:49, 08:60, 37:01:06, 37:06, 42:13, 44:02:08, 44:16, 44:42, 44:91  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *13:02:01-13:02:07, 13:08Q-13:09, 13:14, 13:19, 13:27, 13:30, 13:32-13:34, 13:37  |   | 3 |   |   | 6 |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *13:03, 46:11, 56:08, 56:14, 56:16  |   | 3 |   |   | 6 |   |   |    |    | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29 |    |    |    |    |    |
| *13:04, 15:155  |   | 3 |   |   | 6 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 | 29 | 31 |    |    |    |    |
| *13:15  |   |   |   |   | 6 |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *13:16, 49:07   |   | 3 |   |   |   |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *13:18  |   | 3 |   |   | w |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 31 |    |    |    |    |
| *13:31  |   | 3 |   |   |   |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *13:35  |   | 3 |   |   | 6 |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *14:01:01-14:04, 14:06:01-14:09, 14:11-14:12, 14:14-14:18, 15:37, 40:51, C*01:30  |   | 2 |   |   | 7 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *14:05, 14:13   |   | 2 |   |   | 7 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *14:10, 40:28   |   | 2 |   | 5 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 27 |    |    |    |    |    |
| *15:01:02, 15:09, 40:26   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 30 |    |    |    |
| *15:04  |   | 3 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 | 29 | 31 |    |    |    |
| *15:13  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *15:16:01, 15:67, 15:95, 49:04-49:05  |   | 3 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 | 29 | 31 |    |    |    |
| *15:17:01:01-15:17:02, 15:24, 15:87, 15:157, 15:162, 15:168, 15:177, 57:01:01-57:01:07, 57:04, 57:06, 57:08, 57:10-57:11, 57:13, 57:15-57:16, 57:18-57:23, 57:25-57:31, 58:01:01-58:02, 58:04-58:07, 58:10N-58:16, 58:18-58:26  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *15:38:01-15:38:02  |   | 2 |   |   | 7 |   |   |    | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *15:42, 55:36, 55:40  |   | 3 |   |   |   |   |   |    |    | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *15:73, 40:71, 82:01-82:03  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *15:83, 45:08   |   | 3 |   |   |   |   |   | 10 |    |    |    |    |    |    |    |    |    | 18 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *15:137   |   | 3 |   |   |   |   |   | 7  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 | 29 | 31 |    |    |    |
| *15:185, 18:37, 18:48, 39:43  |   |   |   |   |   |   |   | 7  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *18:01:01-18:02, 18:05-18:06, 18:08-18:09, 18:12-18:13, 18:17N-18:18, 18:20, 18:23N-18:25, 18:27-18:28, 18:31-18:32, 18:34, 18:36, 18:38, 18:40, 18:42-18:47, 18:49   |   |   |   |   |   |   |   | 7  | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *18:03  |   |   |   |   |   |   |   | 7  | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *18:04  |   |   |   |   |   |   |   | 7  | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *18:07:01-18:07:02  | 1 |   |   |   |   |   |   | 7  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *18:10-18:11, 18:21, 18:35, 35:28, 37:02  |   |   |   |   |   |   |   |    | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *18:14  |   |   |   |   |   |   |   |    | 7  | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *18:15, 18:19, 18:30  |   | 2 |   |   |   |   |   |    | 7  | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *18:22  |   |   |   |   |   |   |   | 5  |    | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| *18:26, 18:41   |   |   |   |   |   |   |   |    | 7  | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 27 |
| 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 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |    |

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| 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 |          | Well No. |   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----------|---|
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 47 | 50 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | *07:65   |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *07:78  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *07:84  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *08:03, 08:52   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *08:09, 41:01, 41:05-41:07, 41:09, 41:12, 42:04   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *08:26, 08:56, 15:02-01-15:02:04, 15:08, 15:11:01-15:11:04, 15:15, 15:21, 15:31, 15:44, 15:55, 15:76, 15:88-15:89, 15:112, 15:121, 15:139, 15:143-15:144, 15:148, 15:170, 15:189, 15:191, 35:08:02, 35:19, 35:26, 35:49, 35:78, 54:06, 54:09, 55:08, 55:14, 56:03, 56:09-56:12, 56:18 |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *08:32, 35:69   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *08:39  |
|    |    | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *08:49, 08:60, 37:01:06, 37:06, 42:13, 44:02:08, 44:16, 44:42, 44:91  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *13:02:01-13:02:07, 13:08Q-13:09, 13:14, 13:19, 13:27, 13:30, 13:32-13:34, 13:37  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *13:03, 46:11, 56:08, 56:14, 56:16  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *13:04, 15:155  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *13:15  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *13:16, 49:07   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *13:18  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *13:31  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *13:35  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *14:01:01-14:04, 14:06:01-14:09, 14:11-14:12, 14:14-14:18, 15:37, 40:51, C*01:30  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *14:05, 14:13   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *14:10, 40:28   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:01:02, 15:09, 40:26   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:04  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:13  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:16:01, 15:67, 15:95, 49:04-49:05  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:17:01:01-15:17:02, 15:24, 15:87, 15:157, 15:162, 15:168, 15:177, 57:01:01-57:01:07, 57:04, 57:06, 57:08, 57:10-57:11, 57:13, 57:15-57:16, 57:18-57:23, 57:25-57:31, 58:01:01-58:02, 58:04-58:07, 58:10N-58:16, 58:18-58:26  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:38:01-15:38:02  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:42, 55:36, 55:40  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:73, 40:71, 82:01-82:03  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:83, 45:08   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:137   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *15:185, 18:37, 18:48, 39:43  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *18:01:01-18:02, 18:05-18:06, 18:08-18:09, 18:12-18:13, 18:17N-18:18, 18:20, 18:23N-18:25, 18:27-18:28, 18:31-18:32, 18:34, 18:36, 18:38, 18:40, 18:42-18:47, 18:49   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *18:03  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *18:04  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *18:07:01-18:07:02  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *18:10-18:11, 18:21, 18:35, 35:28, 37:02  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *18:14  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *18:15, 18:19, 18:30  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *18:22  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |          | *18:26, 18:41   |
| 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 | Well No. |          |   |

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Lot-specific Information

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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 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |
|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| *18:29  | 1 |   |   |   |   |    |    | 7  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *18:33  |   |   |   |   |   |    |    | 7  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *18:39  |   |   |   |   |   |    |    | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *27:04:03   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 32 |    |  |
| *27:14  |   | 3 |   |   |   | 6  |    |    | 10 | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *27:28, 27:62, 39:32, 39:48   |   |   |   |   |   |    | 7  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:01:01:01-35:08:01, 35:08:03-35:09:02, 35:11:01-35:12:02, 35:14:01-35:15, 35:17-35:18, 35:22-35:23, 35:27, 35:30, 35:32-35:36, 35:39-35:42:01, 35:43:01-35:44, 35:48, 35:50-35:59, 35:61-35:62, 35:64-35:68:02, 35:70, 35:74-35:75, 35:77, 35:79, 35:83, 35:86-35:89, 35:91-35:94, 35:97-35:99, 53:03, 53:11-53:13     |   | 1 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:10, 35:13, 35:16, 35:80, 35:84, 35:90, 38:06-38:07  | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:20:01-35:20:02, 35:72, 35:95, 53:09   |   |   |   |   |   |    |    | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:21  | 1 | 2 |   |   | 5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 27 |    |    |    |    |    |    |  |
| *35:24:01-35:24:02  | 1 |   |   |   | 5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 27 |    |    |    |    |    |    |  |
| *35:29  | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:31  | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:37  | 1 | 3 |   |   | 6 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 | 29 | 31 |    |    |    |    |  |
| *35:38  | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:42:02   | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 22 | 23 |    |    |    |    |    |  |
| *35:45, 35:71   | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:46-35:47  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:60  | 1 | 3 |   |   | 6 |    |    | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:76  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:81  | 1 |   |   |   | 5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 27 |    |    |    |    |    |    |  |
| *35:82, 35:85   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 17 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *35:96  | 1 | 2 |   |   | 5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 27 |    |    |    |    |    |    |  |
| *37:01:01-37:01:05, 37:01:07, 37:03N, 37:05, 37:08, 37:10-37:20, 37:22  |   |   |   |   |   |    |    | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *37:04:01-37:04:02  |   |   |   |   | w |    | 8  | 9  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | w  |    |    |    |    |    |    |  |
| *37:07, 37:09   |   |   |   |   |   |    | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *37:21  | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *39:06:01-39:06:02  |   | 3 |   |   | 6 |    |    | 10 |    |    | 14 | 15 |    |    |    |    |    |    |    |    |    |    |    |    | 26 |    |    | 31 |    |    |    |    |  |
| *39:19:01-39:19:02  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 17 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *39:33  | 3 |   | w |   |   |    |    |    |    |    | 14 |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 | 29 | 31 |    |    |    |    |    |  |
| *39:34  | 3 |   | 6 |   |   | 10 |    |    |    |    | 14 |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 |    | 31 |    |    |    |    |    |  |
| *39:50  | 3 |   | 6 |   |   |    | 11 |    |    | 14 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 |    | 31 |    |    |    |    |    |  |
| *39:57  | 3 |   | 6 |   |   | 10 |    |    | 14 | 15 |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 |    | 31 |    |    |    |    |    |    |  |
| *40:01:06   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 30 | 32 |    |  |
| *40:06:01:01-40:06:02, 40:53, 40:70, 40:75, 40:83, 40:93, 40:96   |   | 3 |   |   | 6 |    |    | 10 | 11 |    |    |    |    |    |    |    |    |    | 19 |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *40:07, 40:68   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *40:08  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *40:13  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *40:19  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *40:44  |   | 3 |   |   | 6 |    |    | 10 | 11 |    |    |    |    |    |    |    |    |    | 19 |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *40:58  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 23 |    |    |    |    |    |    |  |
| *40:86  |   | 3 |   |   | 6 |    |    | 10 | 11 |    | 14 |    |    |    |    |    |    | 19 |    |    |    |    |    |    | 26 |    | 31 |    |    |    |    |    |  |
| *40:95  |   | 3 |   |   |   |    |    |    |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 32 |    |    |  |
| *44:02:01:01-44:02:07, 44:02:09, 44:02:11-44:02:13, 44:05:01-44:05:02, 44:08-44:09, 44:11-44:12, 44:14, 44:17, 44:19N, 44:21-44:23N, 44:25, 44:27:01, 44:33, 44:44, 44:48-44:49, 44:51-44:53, 44:55, 44:58N-44:59, 44:63, 44:66-44:68, 44:70-44:75, 44:78, 44:80, 44:84, 44:86-44:90, 44:93, 44:95, 44:97, 83:01, C*15:25 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| *44:02:10, 44:34  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 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 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |

**Lot No.: 48M**

## **Lot-specific Information**

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

## **General “Instructions for Use”**

IFU-02 Rev. No. 02 can be downloaded from

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



Lot No.: 48M

## Lot-specific Information

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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 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |  |  |    |  |  |
|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|--|--|
| *44:03:01-44:04, 44:07, 44:13,<br>44:26, 44:28:01-44:30, 44:32, 44:35-<br>44:36, 44:38-44:40, 44:43:01, 44:45-<br>44:46, 44:50, 44:56N-44:57, 44:60-<br>44:61N, 44:69, 44:76-44:77, 44:79,<br>44:81-44:82, 44:85, 44:92, 44:94,<br>44:96, 44:98 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *44:06  | 1 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *44:10  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    | 16 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *44:15, 44:18, 45:01, 45:05-45:07,<br>45:11   |   | 3 |   |   |   |   |    |    |    |    |    |    |    |    |    |    | 16 | 18 |    |    |    |    |    |    |    |    | 28 | 29 |    |    |    |    |  |  |  |    |  |  |
| *44:20  |   | 3 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 18 |    |    |    |    |    |    |    |    | 28 | 29 |    |    |    |    |  |  |  |    |  |  |
| *44:24  |   |   | 3 |   | 6 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 27 |    |    |    |    |    |    |  |  |  |    |  |  |
| *44:47  |   |   |   | 3 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 28 | 29 |    |    | 30 |    |    |  |  |  |    |  |  |
| *44:62  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *44:83  |   |   |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    | 14 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *45:02  |   | 3 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 18 |    |    |    |    |    |    | 26 | 28 | 29 | 31 |    |    |    |  |  |  |    |  |  |
| *45:03  |   | 3 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 18 |    |    |    |    |    |    | 28 | 29 |    |    |    |    |    |  |  |  |    |  |  |
| *45:04  |   | 3 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 16 | 18 |    |    |    |    |    |    |    | 29 |    |    |    |    |    |  |  |  |    |  |  |
| *45:09  |   | 3 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 18 |    |    |    |    |    |    | 26 | 28 | 29 | 31 |    |    |    |  |  |  |    |  |  |
| *45:10  |   | 3 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *46:18, 54:21, 55:10, 55:18, 55:34  |   | 3 |   | 6 |   |   |    | 10 |    |    |    |    |    |    |    |    |    |    | 18 |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *48:18, 58:27   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *49:01:01-49:02, 49:06, 49:08,<br>49:10, 50:01:01-50:01:02, 50:04-<br>50:08   |   |   | 3 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 16 |    |    |    |    |    |    |    |    |    | 29 |    |    |    |  |  |  |    |  |  |
| *49:03  |   | 3 |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    |    | 16 |    |    |    |    |    |    | 24 |    | 29 |    |    |    |    |    |  |  |  |    |  |  |
| *49:09  |   | 2 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 16 |    |    |    |    |    |    |    |    | 29 |    |    |    |    |  |  |  |    |  |  |
| *50:02  |   | 3 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 16 |    |    |    |    |    |    |    | 28 | 29 |    |    |    |    |  |  |  |    |  |  |
| *50:09  |   | 3 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 14 |    |    |    |    |    |    |    | 26 | 29 | 31 |    |    |    |    |  |  |  |    |  |  |
| *52:01:01:01, 52:01:03, 52:01:05,<br>52:04-52:05, 52:07, 52:13, 52:17-<br>52:18   |   | 2 |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29 |    |    |    |    |  |  |  |    |  |  |
| *52:01:02, 52:01:04, 52:09  |   | 2 |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 24 |    | 29 |    |    |    |    |  |  |  |    |  |  |
| *52:02, 58:08   |   | 2 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 24 |    | 29 |    |    |    |    |  |  |  |    |  |  |
| *52:03  |   | 3 |   |   | 6 | 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 24 |    | 29 |    |    |    |    |    |  |  |  |    |  |  |
| *52:06:01-52:06:02  | 1 | 2 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 24 |    | 29 |    |    |    |    |  |  |  |    |  |  |
| *52:08  |   | 2 |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 32 |  |  |  |    |  |  |
| *52:10  |   |   | 6 |   | 8 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29 |    |    |    |  |  |  |    |  |  |
| *52:11  |   | 3 |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29 |    |    |    |  |  |  |    |  |  |
| *52:12  |   | 2 |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29 |    |    |    |  |  |  |    |  |  |
| *52:14  |   | 2 |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    | 14 |    |    |    |    |    |    |    |    | 26 |    | 29 | 31 |    |    |    |  |  |  |    |  |  |
| *52:15  |   | 2 |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    |    |    | 14 |    |    |    |    |    |    |    | 28 | 29 |    |    |    |    |  |  |  |    |  |  |
| *52:16  |   | 2 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29 |    |    |    |  |  |  |    |  |  |
| *52:19  |   |   | 8 | 9 |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 18 |    |    |    |    |    |    |    |    | 29 |    |    |    |    |  |  |  |    |  |  |
| *52:20, 78:05-78:06   |   | 2 |   |   |   | 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29 |    |    |    |  |  |  |    |  |  |
| *53:01:01-53:01:05, 53:04-53:05,<br>53:07-53:08:02, 53:10, 53:14-53:16,<br>53:18, 53:20-53:21   | 1 |   |   |   | 5 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 27 |    |    |    |    |    |  |  |  |    |  |  |
| *53:02  | 1 | 2 | 5 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 22 | 24 | 27 |    |    |    |    |  |  |  |    |  |  |
| *53:17:01   |   |   |   |   | 8 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *53:19  |   | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *53:22  |   | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *53:23  |   | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *54:01:01-54:02, 54:04-54:05N,<br>54:07-54:08N, 54:12-54:13, 54:17-<br>54:19, 54:22, 55:02:01-55:02:02,<br>55:02:04-55:02:05, 55:07, 55:12,<br>55:16, 55:19, 55:26, 55:30, 55:35,<br>55:39, 56:23, 59:01:01:01, 59:05                           |   |   | 3 |   | 6 |   |    | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *54:03, 56:01:01-56:01:04, 56:07,<br>56:17, 56:24, 56:26-56:29, 59:04   |   |   | 3 |   | 6 |   | w  |    | 10 |    |    |    |    |    |    |    |    | 16 |    |    |    |    |    |    |    |    |    |    | 29 |    |    |    |  |  |  |    |  |  |
| *54:10, 55:37   |   |   | 3 |   | 6 |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    | 19 |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  | 31 |  |  |
| *54:11  |   |   | 3 |   | 6 |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| *54:14, 55:23   |   | 3 |   |   | 6 |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 26 |    | 31 |    |    |  |  |  |    |  |  |
| *54:15-54:16, 55:27   |   | 3 |   |   | 6 |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |
| 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 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |  |  |    |  |  |



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| 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 |  | Well No. |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----------|
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *44:03:01-44:04, 44:07, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38-44:40, 44:43:01, 44:45-44:46, 44:50, 44:56N-44:57, 44:60-44:61N, 44:69, 44:76-44:77, 44:79, 44:81-44:82, 44:85, 44:92, 44:94, 44:96, 44:98 |          |
|    | 34 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | *44:06   |
| 34 | 35 |    |    |    | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *44:10   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *44:15, 44:18, 45:01, 45:05-45:07, 45:11   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *44:20   |          |
|    | 34 | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *44:24   |          |
|    | 34 | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *44:47   |          |
|    | 34 | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *44:62   |          |
|    | 34 | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *44:83   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *45:02   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *45:03   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *45:04   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *45:09   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *45:10   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *46:18, 54:21, 55:10, 55:18, 55:34   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *48:18, 58:27  |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *49:01:01-49:02, 49:06, 49:08, 49:10, 50:01:01-50:01:02, 50:04-50:08   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *49:03   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *49:09   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *50:02   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *50:09   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:01:01:01, 52:01:03, 52:01:05, 52:04-52:05, 52:07, 52:13, 52:17-52:18   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:01:02, 52:01:04, 52:09   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:02, 58:08  |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:03   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:06:01-52:06:02   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:08   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:10   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:11   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:12   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:14   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:15   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:16   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:19   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *52:20, 78:05-78:06  |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *53:01:01-53:01:05, 53:04-53:05, 53:07-53:08:02, 53:10, 53:14-53:16, 53:18, 53:20-53:21  |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *53:02   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *53:06   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *53:17:01  |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *53:19   |          |
|    |    | 34 | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *53:22   |          |
|    |    | 34 | 35 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *53:23   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *54:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:12-54:13, 54:17-54:19, 54:22, 55:02:01-55:02:02, 55:02:04-55:02:05, 55:07, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:39, 56:23, 59:01:01:01, 59:05                      |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *54:03, 56:01:01-56:01:04, 56:07, 56:17, 56:24, 56:26-56:29, 59:04   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *54:10, 55:37  |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *54:11   |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *54:14, 55:23  |          |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *54:15-54:16, 55:27  |          |
| 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 | Well No.   |          |

Lot No.: 48M

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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 | 25   | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|----|----|----|----|----|----|--|--|--|--|
| *54:20  |   |   | 3 |   |   |   |   |   |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    | 31 |    |  |  |  |  |
| *55:01:01-55:01:06, 55:03, 55:05,<br>55:11, 55:15, 55:17, 55:25, 55:28-<br>55:29, 55:31, 55:33, 55:38 |   |   | 3 |   |   |   |   |   |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *55:02:03   |   |   |   |   |   | 6 |   |   |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *55:09  |   |   | 3 |   |   |   |   |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    | 31 |    |  |  |  |  |
| *55:13, 59:03   |   |   | 3 |   |   | 6 |   |   |   | 10 |    |    | 14 |    |    |    |    |    |    |    |    |    |    |    | 26   |    |    |    | 31 |    |    |    |  |  |  |  |
| *55:20  |   |   | 3 |   |   |   |   |   |   | 10 |    |    |    |    |    |    |    | 18 | 19 |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *55:21  |   |   | 3 |   |   |   |   |   |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    | 31 |    |    |  |  |  |  |
| *55:22  |   |   | 3 |   |   | 6 |   |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *55:24  |   |   | 3 |   |   |   |   |   |   |    | 11 |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *55:32  |   |   | 3 |   |   | 6 |   |   |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 26   |    |    |    | 31 |    |    |    |  |  |  |  |
| *56:02, 56:04   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    | 16 |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *56:05:01   |   |   | 2 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | w 23 |    |    |    | 29 |    |    |    |  |  |  |  |
| *56:05:02   |   |   | 2 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    | 29 |    |    |  |  |  |  |
| *56:06  |   |   | 2 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | w 23 |    |    |    | 29 |    |    |    |  |  |  |  |
| *56:13  |   |   | 3 |   |   |   |   |   |   |    |    |    |    |    |    |    |    | 16 | 18 |    |    |    |    |    |      |    |    |    | 29 |    |    |    |  |  |  |  |
| *56:15  |   |   | 3 |   |   | 6 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    | 29 |    |    |  |  |  |  |
| *56:19N   |   |   | 3 |   |   | 6 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *56:20  |   |   | 3 |   |   | 6 |   |   |   |    |    |    |    |    |    |    |    | 16 | 19 |    |    |    |    |    |      |    |    |    | 29 |    |    |    |  |  |  |  |
| *56:21  |   |   | 2 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    | 29 |    |    |  |  |  |  |
| *56:22  |   |   | 3 |   |   | 6 |   |   |   |    |    |    |    |    |    |    | 14 |    |    |    |    |    |    |    |      |    |    | 26 |    | 29 | 31 |    |  |  |  |  |
| *56:25  |   |   | 3 |   |   |   |   |   |   |    |    |    |    |    |    |    | 16 |    |    |    |    |    |    |    |      |    |    |    |    | 29 |    |    |  |  |  |  |
| *57:02:01-57:03:02, 57:05, 57:17,<br>58:28  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *57:07  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *57:09  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *57:14, 58:09   |   |   |   |   |   | 5 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    | 27 |    |    |    |  |  |  |  |
| *57:24  |   |   |   |   | 3 |   |   |   |   | 6  |    |    | 10 |    | 10 | 11 |    | 14 |    | 19 |    |    |    |    |      |    |    | 26 |    | 31 |    |    |  |  |  |  |
| *59:02  |   |   |   |   |   | 6 |   |   |   |    |    |    |    |    |    |    |    |    | 19 |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *73:01  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 19 |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| *78:01  | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 22 | 23 |    |    | 29 |    |    |  |  |  |  |
| *78:02:01   | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    | 29 |    |  |  |  |  |
| *78:02:02   | 1 | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 22 | 23 |    |    | 29 |    |    |  |  |  |  |
| *78:03  |   | 2 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 17 |    |    |    |    |    |      | 22 | 23 |    |    | 29 |    |    |  |  |  |  |
| *78:04  | 1 | 3 |   |   |   | 6 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    | 29 |    |  |  |  |  |
| *78:07  | 1 | 2 |   |   |   |   |   |   |   | 10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 22 | 23 |    |    |    |    |    |  |  |  |  |
| C*08:24   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |  |  |  |  |
| HLA-B allele <sup>4</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 | 25   | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |  |  |  |

<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\*51 subtyping.

In addition, wells number 6, 8, 15, 17 to 19, 25, 27, 30, 42 to 44, 46, 47 and 51 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 B\*51:25 nucleotide sequence has been shown to be identical to B\*51:22.

The B\*51:47 nucleotide sequence has been renamed to B\*51:09:02.

<sup>3</sup>Primer mix 9: Specific PCR fragment of 85 bp in the B\*51:08, 51:20 and 51:44N and in the B\*37:04:01-37:04:02 and 52:19 alleles. Specific PCR fragment of 195 bp in the B\*51:35 allele. Specific PCR fragment of 215 bp in the B\*51:17 allele.

Primer mix 10: Specific PCR fragment of 160 bp in the B\*51:01:09, 51:10 and 51:24:02-51:24:03 and in the B\*07:78, 07:84, 27:14, 40:06:01-40:06:02, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:96 and 73:01 alleles. Specific PCR fragment of 245 bp in the B\*51:21, 51:36, 08:09, 15:42, 15:83, 35:60, 39:06:01-39:06:02, 39:34, 39:57, 41:01, 41:05-41:07, 41:09, 41:12, 42:04, 45:08, 46:18, 54:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10, 54:12-54:22, 55:01:01-55:03, 55:05, 55:07, 55:10-55:13, 55:15-55:21, 55:23, 55:25-55:40, 56:23, 59:01-59:03, 59:05 and 78:07 alleles. Specific PCR fragment of 160 and 245 bp in the B\*54:11 allele.

Primer mix 15: Specific PCR fragment of 100 bp in the B\*51:14 allele. Specific PCR fragment of 230 bp in the B\*51:19 and in the B\*39:06:01-39:06:02 and 39:57 alleles.

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| 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 |  | Well No.      |                           |   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|---------------|---------------------------|---|
|    |    |    |    |    |    |    |    | 41 |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *54:20   |               |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | *55:01:01-55:01:06, 55:03, 55:05, 55:11, 55:15, 55:17, 55:25, 55:28-55:29, 55:31, 55:33, 55:38 |               |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | *55:02:03     |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | *55:09        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | *55:13, 59:03 |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 41 | 48 | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    | *55:20   |               |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | *55:21        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | *55:22        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | *55:24        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  | *55:32        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |  | *56:02, 56:04 |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |  | *56:05:01     |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |  | *56:05:02     |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |  | *56:06        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 47 |    |    |    |    |    |    |    |    |    |    |    |  | *56:13        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |    |  | *56:15        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |  | *56:19N       |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |    |    |    |  | *56:20        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |    |  | *56:21        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 56 |    |    |    |    |    |    |    |    |  | *56:22        |                           |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49 |    |    |    |    |    |    |    |  |               | *56:25                    |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |  |               |                           | *57:02:01-57:03:02, 57:05, 57:17, 58:28 |
| 34 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |  |               |                           | *57:07                                  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 40 |    |    |    |    |    |    |  |               |                           | *57:09                                  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 38 | 40 |    |    |    |    |    |  |               |                           | *57:14, 58:09                           |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 35 | 40 |    |    |    |    |    |  |               |                           | *57:24                                  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | *59:02                    |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | *73:01                    |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | *78:01                    |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | *78:02:01                 |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | *78:02:02                 |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | *78:03                    |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | *78:04                    |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | *78:07                    |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | C*08:24                   |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | HLA-B allele <sup>4</sup> |   |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |               | Well No.                  |   |
| 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 |  |               |                           |   |

Primer mix 18: Specific PCR fragment of 140 bp in the B\*51:28 allele. Specific PCR fragment of 220 bp in the B\*51:08, 51:20, 51:36 and 51:44N and in the B\*08:09, 15:83, 41:01, 41:05-41:07, 41:09, 41:12, 42:04, 44:15, 44:18, 44:20, 45:01-45:11, 52:19, 55:20 and 56:13 alleles.

Primer mix 21: Specific PCR fragment of 130 bp in the B\*51:38 allele. Specific PCR fragment of 185 bp in the B\*51:27N allele.

Primer mix 25: Specific PCR fragment of 130 bp in the B\*51:38 allele. Specific PCR fragment of 175 bp in the B\*51:30 allele. Specific PCR fragment of 205 bp in the B\*51:53 allele.

Primer mix 26: Specific PCR fragment of 105 bp in the B\*51:13:01-51:13:02, 51:37, 51:63 and 51:92 and in the B\*13:04, 15:04, 15:16, 15:67, 15:95, 15:137, 15:155, 35:37, 39:06:01-39:06:02, 39:33-39:34, 39:50, 39:57, 40:86, 45:02, 45:09, 49:04-49:05, 50:09, 52:14, 54:14, 55:13, 55:23, 55:32, 56:22, 59:03 and 73:01 alleles. Specific PCR fragment of 155 bp in the B\*51:32 allele.

Primer mix 27: Specific PCR fragment of 205 bp in the B\*51:33 allele. Specific PCR fragment of 270 bp in the B\*51:04, 51:46 and 51:56 and in the B\*14:10, 18:22, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 37:04:01-37:04:02, 40:28, 53:02, 53:06, 57:14 and 58:09 alleles. Specific PCR fragment of 345 bp in the B\*51:39 and B\*44:24 alleles.

Primer mix 28: Specific PCR fragment of 205 bp in the B\*51:33 allele. Specific PCR fragment of 255 bp in the B\*51:23 and in the B\*44:15, 44:18, 44:20, 44:47, 45:01-45:03, 45:05-45:07, 45:09, 45:11, 50:02 and 52:15 alleles.

Primer mix 31: Specific PCR fragment of 105 bp in the B\*51:13:01-51:13:02, 51:37, 51:63, 51:92, 13:04, 15:16, 15:67, 15:95, 15:155, 35:37, 39:06:01-39:06:02, 39:34, 39:50, 39:57, 40:86, 45:02, 45:09, 49:04-49:05, 50:09, 52:14, 54:14, 55:13, 55:23, 55:32, 56:22, 59:03, 73:01 alleles. Specific

**Lot No.: 48M****Lot-specific Information****[www.olerup-ssp.com](http://www.olerup-ssp.com)**

PCR fragment of 225 bp in the B\*51:05, 51:29, 51:54, 51:61 and 51:82 and in the B\*07:78, 07:84, 13:18, 13:31, 54:10, 54:20, 55:09, 55:21 and 55:37 alleles. Specific PCR fragment of 105 and 225 bp in the B\*15:04, 15:137 and 39:33 alleles.

Primer mix 37: Specific PCR fragment of 165 bp in the B\*51:44N allele. Specific PCR fragment of 225 bp in the B\*51:55 allele.

Primer mix 41: Specific PCR fragment of 225 bp in the B\*51:05, 51:29, 51:54, 51:61 and 51:82 and in the B\*07:78, 07:84, 13:18, 13:31, 15:04, 15:137, 39:33, 54:10, 54:20, 55:09, 55:21 and 55:37 alleles. Specific PCR fragment of 315 bp in the B\*51:48 and C\*08:24 alleles.

Primer mix 42: Specific PCR fragment of 100 bp in the B\*51:60 allele. Specific PCR fragment of 135 bp in the B\*51:49 allele.

Primer mix 43: Specific PCR fragment of 115 bp in the B\*51:58 allele. Specific PCR fragment of 215 bp in the B\*51:50 allele.

Primer mix 44: Specific PCR fragment of 280 bp in the B\*51:76 and B\*08:39 alleles. Specific PCR fragment of 385 bp in the B\*51:51 allele.

Primer mix 48: Specific PCR fragment of 95 bp in the B\*51:37, 51:90 and 51:92 and in the B\*07:84, 13:04, 13:35, 15:16, 15:67, 15:95, 15:155, 35:37, 40:44, 44:20, 44:47, 45:09, 49:04-49:05, 52:12, 54:14-54:16, 55:23 and 55:27 alleles. Specific PCR fragment of 220 bp in the B\*51:61 and in the B\*13:31, 15:137 and 55:21 alleles. Specific PCR fragment of 95 and 220 bp in the B\*15:04 allele.

Primer mix 51: Specific PCR fragment of 85 bp in the B\*51:68 allele. Specific PCR fragment of 215 bp in the B\*51:72 allele.

Primer mix 53: Specific PCR fragment of 165 bp in the B\*51:71 allele. Specific PCR fragment of 260 bp in the B\*51:70 allele.

Primer mix 55: Specific PCR fragment of 75 bp in the B\*51:77 allele. Specific PCR fragment of 200 bp in the B\*51:75 allele.

Primer mix 57: Specific PCR fragment of 145 bp in the B\*51:79 allele. Specific PCR fragment of 210 bp in the B\*51:78 and in the B\*44:02:10 and 44:34 alleles.

Primer mix 59: Specific PCR fragment of 120 bp in the B\*51:83 allele. Specific PCR fragment of 240 bp in the B\*51:88 allele.

Primer mix 60: Specific PCR fragment of 85 bp in the B\*51:94 allele. Specific PCR fragment of 190 bp in the B\*51:84 allele.

Primer mix 61: Specific PCR fragment of 100 bp in the B\*51:85 and in the B\*27:14, 44:20 and 44:47 alleles. Specific PCR fragment of 210 bp in the B\*51:87 allele.

Primer mix 62: Specific PCR fragment of 175 bp in the B\*51:86 allele. Specific PCR fragment of 250 bp in the B\*51:95 and in the B\*39:57 alleles.

Primer mix 63: Specific PCR fragment of 70 bp in the B\*51:91 allele. Specific PCR fragment of 175 bp in the B\*51:89 allele.

Primer mix 64: Specific PCR fragment of 115 bp in the B\*51:67 allele. Specific PCR fragment of 170 bp in the B\*51:66 allele.

<sup>4</sup>The B\*51:51 and 51:76 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 44.

<sup>5</sup>The B\*51:66 and 51:67 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 64.

<sup>6</sup>The B\*51:68 and 51:72 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 51.

<sup>7</sup>The B\*51:70 and 51:71 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 53.

<sup>8</sup>The B\*51:75 and 51:77 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 55.

<sup>9</sup>The B\*51:83 and 51:88 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 59.

<sup>10</sup>The B\*51:84 and 51:94 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

<sup>11</sup>The B\*51:86 and 51:95 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 62.

'w', might be weakly amplified.

**Primers**

| Well No.                  | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---------------------------|--|---|---|---|---|---|---|---|---|----|----|----|
| 5'-primer(s) <sup>1</sup> | 206<br>5' -gAC 3'<br>527<br>5' -TgA 3'<br>357<br>5' -Tgg 3'<br>357<br>5' -Tgg 3'<br>355<br>5' -TCA 3'<br>357<br>5' -Tgg 3'<br>355<br>5' -CCC 3'<br>206<br>5' -gAC 3'<br>408<br>5' -ggT 3'<br>357<br>5' -Tgg 3'<br>357<br>5' -Tgg 3'<br>3rd I<br>431<br>5' -CgA 3'<br>540<br>5' -gAC 3' |   |   |   |   |   |   |   |   |    |    |    |
| 3'-primer(s) <sup>2</sup> | 272<br>5' -TgA 3'<br>583<br>5' -gTg 3'<br>583<br>5' -gTA 3'<br>571<br>5' -CCC 3'<br>583<br>5' -gTg 3'<br>527<br>5' -CCA 3'<br>583<br>5' -gTg 3'<br>272<br>5' -Tgg 3'<br>583<br>5' -gTg 3'<br>477<br>5' -gCg 3'<br>559<br>5' -CTC 3'<br>621<br>5' -ggg 3'                               |   |   |   |   |   |   |   |   |    |    |    |
| Well No.                  | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

| Well No.                  | 13   | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---------------------------|--|----|----|----|----|----|----|----|----|----|----|----|
| 5'-primer(s) <sup>1</sup> | 165<br>5' -ACC 3'<br>357<br>5' -Tgg 3'<br>357<br>5' -CCC 3'<br>404<br>5' -gAC 3'<br>206<br>5' -ATT 3'<br>141<br>5' -Tgg 3'<br>357<br>5' -ATT 3'<br>357<br>5' -Tgg 3'<br>420<br>5' -TTA 3'<br>357<br>5' -Tgg 3'<br>431<br>5' -CgA 3'                      |    |    |    |    |    |    |    |    |    |    |    |
| 3'-primer(s) <sup>2</sup> | 322<br>5' -gTC 3'<br>419<br>5' -CgA 3'<br>414<br>5' -TgT 3'<br>559<br>5' -CAg 3'<br>272<br>5' -TgC 3'<br>242<br>5' -CCC 3'<br>463<br>5' -gCg 3'<br>211<br>5' -ggT 3'<br>445<br>5' -ggA 3'<br>259<br>5' -gTT 3'<br>311<br>5' -ggT 3'<br>309<br>5' -ATC 3' |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                  | 13   | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| Well No.                  | 25   | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
|---------------------------|--|----|----|----|----|----|----|----|----|----|----|----|
| 5'-primer(s) <sup>1</sup> | 357<br>5' -Tgg 3'<br>357<br>5' -Tgg 3'<br>49<br>5' -CAg 3'<br>49<br>5' -CAg 3'<br>357<br>5' -Tgg 3'<br>369<br>5' -TAC 3'<br>357<br>5' -Tgg 3'<br>435<br>5' -AAA 3'<br>141<br>5' -ATT 3'<br>355<br>5' -TCA 3'<br>355<br>5' -TCA 3'<br>133<br>5' -CCg 3'   |    |    |    |    |    |    |    |    |    |    |    |
| 3'-primer(s) <sup>2</sup> | 445<br>5' -ggA 3'<br>419<br>5' -Cgg 3'<br>83<br>5' -TgA 3'<br>83<br>5' -TgA 3'<br>559<br>5' -CAg 3'<br>435<br>5' -TCT 3'<br>419<br>5' -Cgg 3'<br>523<br>5' -ACA 3'<br>419<br>5' -CgA 3'<br>226<br>5' -CAC 3'<br>572<br>5' -ggC 3'<br>419<br>5' -CgA 3'<br>787<br>5' -TCC 3'<br>872<br>5' -TCA 3'<br>583<br>5' -ggT 3'<br>539<br>5' -TCC 3' |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                  | 25   | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |

| Well No.                  | 37  | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|---------------------------|---|----|----|----|----|----|----|----|----|----|----|----|
| 5'-primer(s) <sup>1</sup> | 141<br>5' -ATT 3'<br>419<br>5' -gTC 3'<br>362<br>5' -gAC 3'<br>165<br>5' -ACC 3'<br>357<br>5' -Tgg 3'<br>106<br>5' -CCA 3'<br>141<br>5' -ATT 3'<br>106<br>5' -CCA 3'<br>141<br>5' -ATT 3'<br>103<br>5' -CCT 3'<br>209<br>5' -ggA 3'<br>357<br>5' -Tgg 3'  |    |    |    |    |    |    |    |    |    |    |    |
| 3'-primer(s) <sup>2</sup> | 265<br>5' -CTA 3'<br>583<br>5' -gTg 3'<br>583<br>5' -gTg 3'<br>309<br>5' -ATC 3'<br>539<br>5' -TCT 3'<br>539<br>5' -gAT 3'<br>163<br>5' -TCC 3'<br>163<br>5' -ggC 3'<br>214<br>5' -CCA 3'<br>343<br>5' -T 3'<br>292<br>5' -gTg 3'<br>141<br>5' -gCA 3'<br>292<br>5' -gTC 3'<br>412<br>5' -gTC 3'<br>538<br>5' -CCA 3' |    |    |    |    |    |    |    |    |    |    |    |
| Well No.                  | 37  | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

| Well No.                  | 49         | 50         | 51         | 52         | 53         | 54         | 55         | 56         | 57         | 58         | 59         | 60         |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 5'-primer(s) <sup>1</sup> | 142        | 363        | 97         | 475        | 357        | 193        | 141        | 317        | 141        | 457        | 141        | 357        |
|                           | 5' -TCg 3' | 5' -AgC 3' | 5' -TCg 3' | 5' -CCA 3' | 5' -Tgg 3' | 5' -CCA 3' | 5' -ATT 3' | 5' -gCT 3' | 5' -ATT 3' | 5' -AgC 3' | 5' -ATT 3' | 5' -Tgg 3' |
|                           |            |            |            |            | 357        |            |            | 357        |            |            |            | 357        |
|                           |            |            |            | 5' -Tgg 3' |            |            | 5' -Tgg 3' |            |            |            |            | 5' -Tgg 3' |
| 3'-primer(s) <sup>2</sup> | 259        | 477        | 141        | 583        | 481        | 272        | 177        | 412        | 246        | 583        | 218        | 403        |
|                           | 5' -gTT 3' | 5' -gCg 3' | 5' -gCA 3' | 5' -gTg 3' | 5' -gTg 3' | 5' -TgA 3' | 5' -AAA 3' | 5' -gTT 3' | 5' -TAA 3' | 5' -gTg 3' | 5' -gCC 3' | 5' -gCA 3' |
|                           | 259        |            | 530        |            | 578        |            | 514        |            | 309        |            | 555        | 505        |
|                           | 5' -gTT 3' |            | 5' -CCT 3' |            | 5' -TgA 3' |            | 5' -CTg 3' |            | 5' -gTg 3' |            | 5' -CCg 3' | 5' -gCC 3' |
| Well No.                  | 49         | 50         | 51         | 52         | 53         | 54         | 55         | 56         | 57         | 58         | 59         | 60         |

| Well No.                  | 61         | 62         | 63         | 64         |
|---------------------------|------------|------------|------------|------------|
| 5'-primer(s) <sup>1</sup> | 357        | 357        | 138        | 145        |
|                           | 5' -Tgg 3' | 5' -Tgg 3' | 5' -TTg 3' | 5' -CAA 3' |
|                           |            |            | 529        | 200        |
|                           |            |            | 5' -AgA 3' | 5' -TCg 3' |
| 3'-primer(s) <sup>2</sup> | 418        | 493        | 272        | 272        |
|                           | 5' -gTC 3' | 5' -CCT 3' | 5' -TgA 3' | 5' -TgA 3' |
|                           | 528        | 565        | 559        |            |
|                           | 5' -gCA 3' | 5' -CAT 3' | 5' -CAg 3' |            |
| Well No.                  | 61         | 62         | 63         | 64         |

<sup>1</sup>The nucleotide position, in the 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exon or 3<sup>rd</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>2</sup>The nucleotide position, in the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> or 5<sup>th</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.

| CELL LINE VALIDATION SHEET |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|----------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*51 SSP subtyping kit |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                            | Prod. No.: | Well      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|                            |            | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        | 13        | 14        | 15        | 16        |
|                            |            | 201073101 | 201073102 | 201073103 | 201073104 | 201073105 | 201073106 | 201073107 | 201073108 | 201073109 | 201073110 | 201073111 | 201073112 | 201073113 | 201073114 | 201073115 | 201073116 |
| <b>IHWC cell line</b>      | <b>B*</b>  |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 1 9001 SA                  | *07:02     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 2 9280 LK707               | *52:01     | *73:01    | -         | +         | -         | -         | -         | +         | -         | +         | -         | +         | -         | -         | +         | -         |           |
| 3 9011 E4181324            | *52:01     | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |           |
| 4 9275 GU373               | *15:10     | *53:01    | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 5 9009 KAS011              | *37:01     | -         | -         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         |           |
| 6 9353 SM                  | *39:01     | *51:01    | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 7 9020 QBL                 | *18:01     | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         |           |
| 8 9025 DEU                 | *35:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 9 9026 YAR                 | *38:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 10 9107 LKT3               | *54:01     | -         | -         | +         | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         | -         |           |
| 11 9051 PITOUT             | *44:03     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 12 9052 DBB                | *57:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 13 9004 JESTHOM            | *27:05     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 14 9071 OLGA               | *15:01     | *15:20    | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 15 9075 DKB                | *40:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 16 9037 SWEIG007           | *40:02     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 17 9282 CTM3953540         | *08:01     | *55:01    | -         | -         | +         | -         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         |           |
| 18 9257 32367              | *14:01     | *56:01    | -         | +         | +         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | +         |           |
| 19 9038 BM16               | *18:01     | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         |           |
| 20 9059 SLE005             | *40:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 21 9064 AMALA              | *15:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 22 9056 KOSE               | *35:03     | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 23 9124 IHL                | *40:02     | *56:02    | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |           |
| 24 9035 JBUSH              | *38:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 25 9049 IBW9               | *14:02     | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 26 9285 WT49               | *58:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 27 9191 CH1007             | *07:05     | *51:01    | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 28 9320 BEL5GB             | *44:02     | *44:03    | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 29 9050 MOU                | *44:03     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 30 9021 RSH                | *42:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 31 9019 DUCAF              | *18:01     | -         | -         | -         | -         | -         | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         |           |
| 32 9297 HAG                | *41:02     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 33 9098 MT14B              | *40:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 34 9104 DHIF               | *38:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 35 9302 SSTO               | *44:02     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 36 9024 KT17               | *15:01     | *35:01    | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 37 9065 HHKB               | *07:02     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 38 9099 LZL                | *15:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 39 9315 CML                | *08:01     | *27:05    | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 40 9134 WHONP199           | *13:02     | *46:01    | -         | -         | +         | -         | -         | +         | -         | -         | +         | -         | -         | -         | -         | -         |           |
| 41 9055 H0301              | *14:02     | -         | +         | -         | -         | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 42 9066 TAB089             | *46:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 43 9076 T7526              | *46:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 44 9057 TEM                | *38:01     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 45 9239 SHJO               | *42:01     | *50:01    | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | +         |           |
| 46 9013 SCHU               | *07:02     | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 47 9045 TUBO               | *51:01     | -         | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |
| 48 9303 TER-ND             | *35:01     | *44:03    | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |

| CELL LINE VALIDATION SHEET |                 |        |        |  |  |  |  |  |  |  |  |  |  |      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |
|----------------------------|-----------------|--------|--------|--|--|--|--|--|--|--|--|--|--|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| HLA-B*51 SSP subtyping kit |                 |        |        |  |  |  |  |  |  |  |  |  |  |      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |
|                            |                 |        |        |  |  |  |  |  |  |  |  |  |  | Well |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |
|                            |                 |        |        |  |  |  |  |  |  |  |  |  |  | 17   | 18        | 19        | 20        | 21        | 22        | 23        | 24        | 25        | 26        | 27        | 28        | 29        | 30        | 31        | 32        |           |   |
|                            |                 |        |        |  |  |  |  |  |  |  |  |  |  |      | 201073117 | 201073118 | 201073119 | 201073120 | 201073121 | 201073122 | 201073123 | 201073124 | 201073125 | 201073126 | 201073127 | 201073128 | 201073129 | 201189130 | 201073131 | 201073132 |   |
| <b>IHWC cell line</b>      | <b>B*</b>       |        |        |  |  |  |  |  |  |  |  |  |  |      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |   |
| 1                          | 9001 SA         | *07:02 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 2                          | 9280 LK707      | *52:01 | *73:01 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 3                          | 9011 E4181324   | *52:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 4                          | 9275 GU373      | *15:10 | *53:01 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 5                          | 9009 KAS011     | *37:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 6                          | 9353 SM         | *39:01 | *51:01 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 7                          | 9020 QBL        | *18:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 8                          | 9025 DEU        | *35:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 9                          | 9026 YAR        | *38:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 10                         | 9107 LKT3       | *54:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 11                         | 9051 PTOUT      | *44:03 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 12                         | 9052 DBB        | *57:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 13                         | 9004 JESTHOM    | *27:05 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 14                         | 9071 OLGA       | *15:01 | *15:20 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 15                         | 9075 DKB        | *40:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 16                         | 9037 SWEIG007   | *40:02 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 17                         | 9282 CTM3953540 | *08:01 | *55:01 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 18                         | 9257 32367      | *14:01 | *56:01 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 19                         | 9038 BM16       | *18:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 20                         | 9059 SLE005     | *40:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 21                         | 9064 AMALA      | *15:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 22                         | 9056 KOSE       | *35:03 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 23                         | 9124 IHL        | *40:02 | *56:02 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 24                         | 9035 JBUSH      | *38:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 25                         | 9049 IBW9       | *14:02 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 26                         | 9285 WT49       | *58:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 27                         | 9191 CH1007     | *07:05 | *51:01 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 28                         | 9320 BEL5GB     | *44:02 | *44:03 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 29                         | 9050 MOU        | *44:03 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 30                         | 9021 RSH        | *42:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 31                         | 9019 DUCAF      | *18:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 32                         | 9297 HAG        | *41:02 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 33                         | 9098 MT14B      | *40:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 34                         | 9104 DHIF       | *38:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 35                         | 9302 SSTO       | *44:02 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 36                         | 9024 KT17       | *15:01 | *35:01 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 37                         | 9065 HHKB       | *07:02 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 38                         | 9099 LZL        | *15:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 39                         | 9315 CML        | *08:01 | *27:05 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 40                         | 9134 WHONP199   | *13:02 | *46:01 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 41                         | 9055 H0301      | *14:02 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 42                         | 9066 TAB089     | *46:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 43                         | 9076 T7526      | *46:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 44                         | 9057 TEM        | *38:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 45                         | 9239 SHJO       | *42:01 | *50:01 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 46                         | 9013 SCHU       | *07:02 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 47                         | 9045 TUBO       | *51:01 |        |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | +         | -         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |
| 48                         | 9303 TER-ND     | *35:01 | *44:03 |  |  |  |  |  |  |  |  |  |  |      |           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | - |

| CELL LINE VALIDATION SHEET |      |            |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|------|------------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HLA-B*51 SSP subtyping kit |      |            |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            |      |            |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   | Well  |
|                            |      |            |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48   |
|                            |      |            |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 201073133 201073134 201073135 201073136 201073137 201073138 201073139 201073140 201073141 201073142 201073143 201073144 201073145 201073146 201073147 201073148 |
|                            |      |            |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   | Prod. No.:  |
|                            |      |            |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   | IHWC cell line B*   |
| 1                          | 9001 | SA         | *07:02 |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2                          | 9280 | LK707      | *52:01 | *73:01 | - | - | - | - | - | - | - | + | - | - | - | - | - | - |   |
| 3                          | 9011 | E4181324   | *52:01 |        | - | - | - | - | - | - | - | + | - | - | - | - | - | - |   |
| 4                          | 9275 | GU373      | *15:10 | *53:01 | - | - | - | - | - | - | - | + | - | - | - | - | - | - |   |
| 5                          | 9009 | KAS011     | *37:01 |        | - | - | + | - | - | - | - | - | - | - | - | - | - | - |   |
| 6                          | 9353 | SM         | *39:01 | *51:01 | - | - | - | - | - | - | - | + | - | - | - | - | - | - |   |
| 7                          | 9020 | QBL        | *18:01 |        | - | - | - | - | - | + | - | - | - | - | - | - | - | - |   |
| 8                          | 9025 | DEU        | *35:01 |        | - | - | - | - | - | - | - | + | - | - | - | - | - | - |   |
| 9                          | 9026 | YAR        | *38:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 10                         | 9107 | LKT3       | *54:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 11                         | 9051 | PITOUT     | *44:03 |        | - | + | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 12                         | 9052 | DBB        | *57:01 |        | - | - | - | - | - | - | - | + | - | - | - | - | - | - |   |
| 13                         | 9004 | JESTHOM    | *27:05 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 14                         | 9071 | OLGA       | *15:01 | *15:20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 15                         | 9075 | DKB        | *40:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 16                         | 9037 | SWEIG007   | *40:02 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 17                         | 9282 | CTM3953540 | *08:01 | *55:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 18                         | 9257 | 32367      | *14:01 | *56:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 19                         | 9038 | BM16       | *18:01 |        | - | - | - | - | + | - | - | - | - | - | - | - | - | - |   |
| 20                         | 9059 | SLE005     | *40:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 21                         | 9064 | AMALA      | *15:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 22                         | 9056 | KOSE       | *35:03 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 23                         | 9124 | IHL        | *40:02 | *56:02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 24                         | 9035 | JBUSH      | *38:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 25                         | 9049 | IBW9       | *14:02 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 26                         | 9285 | WT49       | *58:01 |        | - | - | - | - | - | - | - | + | - | - | - | - | - | - |   |
| 27                         | 9191 | CH1007     | *07:05 | *51:01 | - | - | - | - | - | - | - | + | - | - | - | - | - | - |   |
| 28                         | 9320 | BEL5GB     | *44:02 | *44:03 | - | + | + | - | - | - | - | - | - | - | - | - | - | - |   |
| 29                         | 9050 | MOU        | *44:03 |        | - | + | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 30                         | 9021 | RSH        | *42:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 31                         | 9019 | DUCAF      | *18:01 |        | - | - | - | - | - | + | - | - | - | - | - | - | - | - |   |
| 32                         | 9297 | HAG        | *41:02 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 33                         | 9098 | MT14B      | *40:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 34                         | 9104 | DHIF       | *38:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 35                         | 9302 | SSTO       | *44:02 |        | - | + | + | - | - | - | - | - | - | - | - | - | - | - |   |
| 36                         | 9024 | KT17       | *15:01 | *35:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 37                         | 9065 | HHKB       | *07:02 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 38                         | 9099 | LZL        | *15:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 39                         | 9315 | CML        | *08:01 | *27:05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 40                         | 9134 | WHONP199   | *13:02 | *46:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 41                         | 9055 | H0301      | *14:02 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 42                         | 9066 | TAB089     | *46:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 43                         | 9076 | T7526      | *46:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 44                         | 9057 | TEM        | *38:01 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 45                         | 9239 | SHJO       | *42:01 | *50:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 46                         | 9013 | SCHU       | *07:02 |        | - | - | - | - | - | - | - | - | - | - | - | - | - | - |   |
| 47                         | 9045 | TUBO       | *51:01 |        | - | - | - | - | - | - | - | + | - | - | - | - | - | - |   |
| 48                         | 9303 | TER-ND     | *35:01 | *44:03 | - | + | - | - | - | - | - | - | - | - | - | - | - | - |   |

| CELL LINE VALIDATION SHEET |      |            |        |        |   |   |   |   |   |   |   |   |   |   |           |
|----------------------------|------|------------|--------|--------|---|---|---|---|---|---|---|---|---|---|-----------|
| HLA-B*51 SSP subtyping kit |      |            |        |        |   |   |   |   |   |   |   |   |   |   |           |
|                            |      |            |        |        |   |   |   |   |   |   |   |   |   | Well  |           |
|                            |      |            |        |        |   |   |   |   |   |   |   |   |   | 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 |           |
| 1                          | 9001 | SA         | *07:02 |        | - | + | - | - | - | - | - | - | - | -   | 201073149 |
| 2                          | 9280 | LK707      | *52:01 | *73:01 | - | - | - | - | - | - | + | - | - | -   | 201073150 |
| 3                          | 9011 | E4181324   | *52:01 |        | - | - | - | - | - | - | + | - | - | -   | 201073151 |
| 4                          | 9275 | GU373      | *15:10 | *53:01 | + | - | - | - | - | - | - | - | - | -   | 201073152 |
| 5                          | 9009 | KAS011     | *37:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073153 |
| 6                          | 9353 | SM         | *39:01 | *51:01 | - | - | - | - | - | - | + | - | - | -   | 201073154 |
| 7                          | 9020 | QBL        | *18:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073155 |
| 8                          | 9025 | DEU        | *35:01 |        | + | - | - | - | - | - | - | - | - | -   | 201073156 |
| 9                          | 9026 | YAR        | *38:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073157 |
| 10                         | 9107 | LKT3       | *54:01 |        | + | - | - | - | - | - | - | - | - | -   | 201073158 |
| 11                         | 9051 | PITOUT     | *44:03 |        | - | - | - | - | - | - | - | - | - | -   | 201073159 |
| 12                         | 9052 | DBB        | *57:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073160 |
| 13                         | 9004 | JESTHOM    | *27:05 |        | - | - | - | - | - | - | - | - | - | -   | 201073161 |
| 14                         | 9071 | OLGA       | *15:01 | *15:20 | - | - | - | - | - | - | - | - | - | -   | 201073162 |
| 15                         | 9075 | DKB        | *40:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073163 |
| 16                         | 9037 | SWEIG007   | *40:02 |        | - | + | - | - | - | - | - | - | - | -   | 201073164 |
| 17                         | 9282 | CTM3953540 | *08:01 | *55:01 | + | - | - | - | - | - | - | - | - | -   | 201073165 |
| 18                         | 9257 | 32367      | *14:01 | *56:01 | + | - | - | - | - | - | - | - | - | -   | 201073166 |
| 19                         | 9038 | BM16       | *18:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073167 |
| 20                         | 9059 | SLE005     | *40:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073168 |
| 21                         | 9064 | AMALA      | *15:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073169 |
| 22                         | 9056 | KOSE       | *35:03 |        | + | - | - | - | - | - | - | - | - | -   | 201073170 |
| 23                         | 9124 | IHL        | *40:02 | *56:02 | + | + | - | - | - | - | - | - | - | -   | 201073171 |
| 24                         | 9035 | JBUSH      | *38:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073172 |
| 25                         | 9049 | IBW9       | *14:02 |        | - | - | - | - | - | - | - | - | - | -   | 201073173 |
| 26                         | 9285 | WT49       | *58:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073174 |
| 27                         | 9191 | CH1007     | *07:05 | *51:01 | - | + | - | - | - | - | + | - | - | -   | 201073175 |
| 28                         | 9320 | BEL5GB     | *44:02 | *44:03 | - | - | - | - | - | - | - | - | - | -   | 201073176 |
| 29                         | 9050 | MOU        | *44:03 |        | - | - | - | - | - | - | - | - | - | -   | 201073177 |
| 30                         | 9021 | RSH        | *42:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073178 |
| 31                         | 9019 | DUCAF      | *18:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073179 |
| 32                         | 9297 | HAG        | *41:02 |        | - | - | - | - | - | - | - | - | - | -   | 201073180 |
| 33                         | 9098 | MT14B      | *40:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073181 |
| 34                         | 9104 | DHIF       | *38:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073182 |
| 35                         | 9302 | SSTO       | *44:02 |        | - | - | - | - | - | - | - | - | - | -   | 201073183 |
| 36                         | 9024 | KT17       | *15:01 | *35:01 | + | - | - | - | - | - | - | - | - | -   | 201073184 |
| 37                         | 9065 | HHKB       | *07:02 |        | - | + | - | - | - | - | - | - | - | -   | 201073185 |
| 38                         | 9099 | LZL        | *15:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073186 |
| 39                         | 9315 | CML        | *08:01 | *27:05 | - | - | - | - | - | - | - | - | - | -   | 201073187 |
| 40                         | 9134 | WHONP199   | *13:02 | *46:01 | - | - | - | - | - | - | - | - | - | -   | 201073188 |
| 41                         | 9055 | H0301      | *14:02 |        | - | - | - | - | - | - | - | - | - | -   | 201073189 |
| 42                         | 9066 | TAB089     | *46:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073190 |
| 43                         | 9076 | T7526      | *46:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073191 |
| 44                         | 9057 | TEM        | *38:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073192 |
| 45                         | 9239 | SHJO       | *42:01 | *50:01 | - | - | - | - | - | - | - | - | - | -   | 201073193 |
| 46                         | 9013 | SCHU       | *07:02 |        | - | + | - | - | - | - | - | - | - | -   | 201073194 |
| 47                         | 9045 | TUBO       | *51:01 |        | - | - | - | - | - | - | - | - | - | -   | 201073195 |
| 48                         | 9303 | TER-ND     | *35:01 | *44:03 | + | - | - | - | - | - | + | - | - | -   | 201073196 |

## CERTIFICATE OF ANALYSIS

### **Olerup SSP® HLA-B\*51 SSP**

**Product number:** 101.561-24u/03u – without Taq pol.  
**Lot number:** 48M  
**Expiry date:** 2014-February-01  
**Number of tests:** 24 tests – Product No. 101.561-24u  
**3 tests – Product No. 101.561-03u**  
**Number of wells per test:** 64

#### **Well specifications:**

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 1        | 2010-731-01    | 25       | 2010-731-25    | 49       | 2010-731-49    |
| 2        | 2010-731-02    | 26       | 2010-731-26    | 50       | 2010-731-50    |
| 3        | 2010-731-03    | 27       | 2010-731-27    | 51       | 2010-731-51    |
| 4        | 2010-731-04    | 28       | 2010-731-28    | 52       | 2010-731-52    |
| 5        | 2010-731-05    | 29       | 2010-731-29    | 53       | 2010-731-53    |
| 6        | 2010-731-06    | 30       | 2011-891-30    | 54       | 2010-731-54    |
| 7        | 2010-731-07    | 31       | 2010-731-31    | 55       | 2010-731-55    |
| 8        | 2010-731-08    | 32       | 2010-731-32    | 56       | 2010-731-56    |
|          |                |          |                |          |                |
| 9        | 2010-731-09    | 33       | 2010-731-33    | 57       | 2010-731-57    |
| 10       | 2010-731-10    | 34       | 2010-731-34    | 58       | 2010-731-58    |
| 11       | 2010-731-11    | 35       | 2010-731-35    | 59       | 2010-731-59    |
| 12       | 2010-731-12    | 36       | 2010-731-36    | 60       | 2010-731-60    |
| 13       | 2010-731-13    | 37       | 2010-731-37    | 61       | 2010-731-61    |
| 14       | 2010-731-14    | 38       | 2010-731-38    | 62       | 2010-731-62    |
| 15       | 2010-731-15    | 39       | 2010-731-39    | 63       | 2010-731-63    |
| 16       | 2010-731-16    | 40       | 2010-731-40    | 64       | 2010-731-64    |
|          |                |          |                |          |                |
| 17       | 2010-731-17    | 41       | 2010-731-41    |          |                |
| 18       | 2010-731-18    | 42       | 2010-731-42    |          |                |
| 19       | 2010-731-19    | 43       | 2010-731-43    |          |                |
| 20       | 2010-731-20    | 44       | 2010-731-44    |          |                |
| 21       | 2010-731-21    | 45       | 2010-731-45    |          |                |
| 22       | 2010-731-22    | 46       | 2010-731-46    |          |                |
| 23       | 2010-731-23    | 47       | 2010-731-47    |          |                |
| 24       | 2010-731-24    | 48       | 2010-731-48    |          |                |

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

No DNAs carrying the alleles to be amplified by primer solutions 5, 13, 17, 20, 21, 25, 27, 32, 33, 36, 37, 39, 42 to 46, 51 to 53, 55 and 57 to 64 were available. The specificities of the primers in primer solutions 5, 17, 27, 32, 37, 39, 42, 44, 46, 51, 57 and 61 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 13, 20, 21, 25, 33, 43, 45, 53, 55, 59, 60 and 62 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 36, 52, 58, 63 and 64

it was only possible to test the 3'-primer, the 5'-primer was not possible to test. In primer solutions 9, 16, 25, 39, 41, 42 and 44 one or two of the 5'-primers were not possible to test. In primer solution 15, 18, 26 to 28, 37, 42, 51, 57 and 61 one or two of the 3'-primers were not possible to test. Additional primers in primer solutions 18, 26, 28, 31, 41, 47 and 48 were tested by separately adding one 5'-primer or one 3'-primer.

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

**Date of approval:** 2011-August-18

**Approved by:**

**Quality Control, Supervisor**

## Declaration of Conformity

**Product name:** Olerup SSP® HLA-B\*51

**Product number:** 101.561-24u/03u

**Lot number:** 48M

**Intended use:** HLA-B\*51 histocompatibility testing

**Manufacturer:** Olerup SSP AB  
Franzengatan 5  
SE-112 51 Stockholm, 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 9001:2008 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, Franzengatan 5, SE-112 51 Stockholm, 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.)

Stockholm, Sweden  
2011-August-18

Ann-Cathrin Jareman  
Head of QA and Regulatory Affairs

**HLA-B\*51**

**101.561-24u/03u – without Taq polymerase**

**Product Insert**

**Page 48 of 48**

**General “Instructions for Use”**

IFU-02 Rev. No. 02 can be downloaded from

**Lot No.: 48M**

**Lot-specific Information**

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

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**E-mail:** [info-ssp@olerup.com](mailto:info-ssp@olerup.com)

**Web page:** <http://www.olerup-ssp.com>

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**Web page:** <http://www.olerup.com>

**Olerup Inc.**, 901 S. Bolmar St., Suite R, West Chester, PA 19382

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**Fax:** 610-344-7989

**E-mail:** [info.us@olerup.com](mailto:info.us@olerup.com)

**Web page:** <http://www.olerup.com>

For information on *Olerup SSP* distributors worldwide, contact **Olerup GmbH**.