

**Olerup SSP® HLA-B\*39**

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Product number:                  | 101.566-12/04 – including <i>Taq</i> pol.                             |
| Lot number:                      | 67G                                                                   |
| Expiry date:                     | 2012-February-01                                                      |
| Number of tests:                 | 12 tests – Product No. 101.566-12<br>4 tests – Product No. 101.566-04 |
| Number of wells per test:        | 32                                                                    |
| 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. 67G.**

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP®  
HLA-B\*39 LOT**

The HLA-B\*39 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B\*39 lot was made (**Lot No. 46F**).

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot of the HLA-B\*39 kit.

| Well | 5'-primer | 3'-primer          | rationale                                                                                       |
|------|-----------|--------------------|-------------------------------------------------------------------------------------------------|
| 1    | Added     | -                  | Primer added for the B*390107 allele.                                                           |
| 4    | Added     | Added              | Primer pair added for the B*3951 allele.                                                        |
| 8    | Added     | Added              | Primer pair added for the B*3947 allele.                                                        |
| 9    | -         | -                  | Exchanged positive control primer pair.                                                         |
| 11   | -         | Added              | Primer added for the B*3953 allele.                                                             |
| 13   | Added     | Added              | Primer pair added for the B*3951 allele.                                                        |
| 15   | Added     | Added/<br>modified | Primers added for the B*3938Q and B*3954 alleles. 3'-primer modified for increased specificity. |
| 24   | -         | Modified           | 3'-primer modified for increased specificity.                                                   |
| 27   | Modified  | -                  | 5'-primer modified for increased specificity.                                                   |
| 28   | Modified  | -                  | 5'-primer modified for increased specificity.                                                   |
| 29   | -         | Added              | Primer added for the B*3950 allele.                                                             |
| 30   | Added     | Added              | Primer pair added for the B*3952 allele.                                                        |

Changes in revision R01 compared to R00:

1. The B\*3903, 3914, 3929 and 3937 and the B\*3819 alleles are weakly amplified by primer mix 32. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. The B\*3931 allele is weakly amplified by primer mix 24.
2. Primer mix 15 gives a low yield of specific product for the B\*3931 allele.

## PRODUCT DESCRIPTION

### HLA-B\*39 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*3901 to B\*3954 alleles.

#### PLATE LAYOUT

Each test consists of 32 PCR reactions in a 32 well cut PCR plate.

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |

The 32 well cut PCR plate is marked with 'HLA-B\*39' in silver/gray ink.

Well No. 1 is marked with the Lot Number '67G'.

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

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

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

#### INTERPRETATION

The interpretation of HLA-B\*39 SSP subtypings will be influenced by the B\*07, the B\*08, the B\*13, the B\*14, most B\*15, the B\*18, the B\*27, B\*35, the B\*37, the B\*38, many B\*40, several B\*41, the B\*42, several B\*44, the B\*45, several B\*46, the B\*47, the B\*48, one B\*49 several B\*51, several B\*52, the B\*53, the B\*54, the B\*55, the B\*56, the B\*57, most B\*58, the B\*59, the B\*67, the B\*7301, two B\*78, the B\*81, the B\*82 and the B\*8301 alleles when present on the other haplotype. In addition, the Cw\*0130 allele will be amplified by primer mix 26 and the Cw\*1515 allele will be amplified by primer mix 28.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*39 alleles, i.e. **B\*3901 to B\*3954**, recognized by the HLA Nomenclature Committee in October 2009<sup>1</sup> will give rise to unique amplification patterns by the primers in the HLA-B\*39 subtyping kit<sup>2</sup>.

The HLA-B\*39 subtyping kit cannot distinguish the B\*39010101, B\*390103 and B\*390106 to B\*390108 and B\*390110 alleles or the B\*390601 and B\*390602 alleles or the B\*391301 and B\*391302.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2009-October-10, release 2.27.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>The B\*3910 and B\*670102 alleles will give rise to identical amplification patterns with the HLA-B\*39 subtyping kit. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B\*67 kits.

## RESOLUTION IN HOMO- AND HETEROZYGOTES

The 53 HLA-B\*39 alleles give rise to 59 different amplification patterns. These can be combined in 1 770 homozygous and heterozygous combinations. 1 027 of these genotypes do not give rise to unique amplification patterns. In these calculations the different sizes of the specific PCR products in lanes 4, 7, 8, 10, 13, 15, 16, 20, 22 27 and 30 were not considered.

|         |         |        |         |                                         |
|---------|---------|--------|---------|-----------------------------------------|
| +++---+ | ---+--- | -++-++ | -----   | 3913,3929 = 3914,3949 = 3929,3949       |
| +++---+ | -----   | -++-++ | -----   | 390201,3937 = 3903,3913                 |
| +++---+ | -----   | -++-++ | -----   | 390202,3937 = 3913,3937                 |
| +++---+ | ---+--- | -++-++ | -----   | 3904,3908 = 3908,3946 = 3908,3947       |
| +++---+ | ---+--- | -++-++ | -----   | 3946,3949 = 3947,3949                   |
| +++---+ | -----   | -++-++ | -----   | 3913,3946 = 3913,3947                   |
| +++---+ | -++-++  | -++-++ | -----   | 390201,3907 = 391902,3949               |
| +++---+ | -++-++  | -++-++ | -----   | 390202,3907 = 3907,3913 = 3907,3949     |
| +++---+ | ---+--- | -++-++ | ---+--- | 3933,3949 = 3940N,3949                  |
| +++---+ | ---+--- | -++-++ | -----   | 3908,3915 = 3936,3949 = 3949,3953       |
| +++---+ | ---+--- | -++-++ | -----   | 3908,3912 = 3908,3931                   |
| +++---+ | ---+--- | ++++++ | -----+  | 3908,3918 = 3913,3918                   |
| +++---+ | ---+--- | ++++++ | -----   | 3908,3928 = 3908,3945                   |
| +++---+ | ---+--- | ++++++ | ---+--- | 3908,3933 = 3908,3940N = 3913,3933 =    |
|         |         |        |         | 3913,3940N                              |
| +++---+ | ---+--- | -++-++ | -----+  | 3908,3930 = 3908,3943                   |
| +++---+ | ---+--- | -++-++ | -----+  | 3908,3941 = 3908,3942                   |
| +++---+ | ---+--- | -++-++ | -----   | 3901,3908 = 390201,3911 = 3908,3936 =   |
|         |         |        |         | 3908,3953 = 3913,3936 = 3913,3953       |
| +++---+ | ---+--- | -++-++ | -----   | 390104,3908 = 390109,3908 = 390202,3911 |
|         |         |        |         | = 3905,3908 = 3908,3911 = 3911,3913     |
| +++---+ | ---+--- | -++-++ | -----+  | 3930,3949 = 3943,3949                   |
| +++---+ | ---+--- | -++-++ | -----+  | 3941,3949 = 3942,3949                   |
| +++---+ | ---+--- | -++-++ | -----   | 3901,3949 = 3913,3915 = 3915,3949       |
| +++---+ | ---+--- | -++-++ | -----   | 390104,3949 = 3905,3949                 |
| +++---+ | -----   | -++-++ | -----+  | 390201,3943 = 390202,3943 = 3913,3930 = |
|         |         |        |         | 3913,3943                               |
| +++---+ | -----   | -++-++ | -----+  | 3913,3941 = 3913,3942                   |
| +++---+ | -----   | -++-++ | -----   | 3901,3913 = 390201,3905                 |
| +++---+ | -----   | -++-++ | -----   | 390104,3913 = 390202,3905 = 3905,3913   |
| +++---+ | -----   | -++-++ | -----   | 3904,3937 = 3937,3946                   |
| +++---+ | -++-++  | -++-++ | -----   | 3907,3914 = 3907,3929                   |
| +++---+ | -++-++  | -++-++ | -----   | 3903,3911 = 3937,3953                   |
| +++---+ | -----+  | -++-++ | -----   | 3905,3917 = 3910,3937 = 3917,3937 =     |
|         |         |        |         | 3920,3937                               |
| +++---+ | -----+  | -++-++ | -----   | 3912,3937 = 3931,3937 = 3937,3954       |
| +++---+ | -----   | -++-++ | -----+  | 3935,3937 = 3937,3952                   |
| +++---+ | -----   | -++-++ | -----+  | 3905,3924 = 3937,3941 = 3937,3942       |
| +++---+ | -----   | -++-++ | -----   | 3901,3937 = 3903,3905                   |
| +++---+ | -----   | -++-++ | -----   | 390104,3937 = 390109,3937 = 3905,3937   |
| +++---+ | -----   | -++-++ | -----+  | 3903,3943 = 3930,3937 = 3937,3943       |
| +++---+ | -++-++  | -++-++ | -----   | 3904,3907 = 3907,3946 = 3907,3947       |
| +++---+ | -++-++  | -++-++ | -----   | 3904,3911 = 3911,3946 = 3911,3947       |
| +++---+ | -----+  | -++-++ | -----   | 3920,3946 = 3920,3947                   |
| +++---+ | -----   | -++-++ | -----+  | 3904,3943 = 3943,3946                   |
| +++---+ | -----   | -++-++ | -----   | 3904,3905 = 3905,3946 = 3905,3947       |
| +++---+ | ++++    | -++-++ | ---+--- | 3907,3933 = 3907,3940N                  |
| +++---+ | ++++    | -++-++ | -----   | 3907,3936 = 3907,3953                   |
| +++---+ | ++++    | -++-++ | -----   | 3907,3910 = 3907,3920                   |
| +++---+ | -++-++  | -++-++ | -----   | 3907,3912 = 3907,3931 = 3907,3954       |

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Lot-specific information

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|          |           |           |           |                                                                                       |
|----------|-----------|-----------|-----------|---------------------------------------------------------------------------------------|
| +++----- | -+-+----- | --+-+++++ | -----     | 3907,3928 = 3907,3945                                                                 |
| +++----- | -+-+----- | --+-+++++ | -----+    | 3907,3935 = 3907,3952                                                                 |
| +++----- | -+-+----- | --+-+++++ | -----+    | 3907,3930 = 3907,3943                                                                 |
| +++----- | -+-+----- | --+-+++++ | -----+    | 3907,3941 = 3907,3942                                                                 |
| +++----- | -+-+----- | --+-+++++ | -----     | 3901,3907 = 3907,3915 = 3907,391902                                                   |
| +++----- | -+-+----- | --+-+++++ | -----     | 390104,3907 = 390109,3907 = 3905,3907 = 3907,3907 = 3907,391901                       |
| +++----- | -+-+----- | --+-+++++ | -----+    | 391901,3943 = 391902,3943                                                             |
| +++----- | --+---+-  | --+-+++++ | ---+----- | 3920,3933 = 3920,3940N                                                                |
| +++----- | --+---+-  | --+-+++++ | -----     | 3920,3936 = 3920,3953                                                                 |
| +++----- | --+---+-  | --+-+++++ | -----     | 3910,3911 = 3911,3920                                                                 |
| +++----- | --+---+-  | --+-+++++ | -----     | 3911,3912 = 3911,3931 = 3911,3954                                                     |
| +++----- | --+---+-  | --+-+++++ | -----+    | 3905,3918 = 3911,3918                                                                 |
| +++----- | --+---+-  | --+-+++++ | -----     | 3911,3928 = 3911,3945                                                                 |
| +++----- | --+---+-  | --+-+++++ | ---+----- | 3905,3933 = 3905,3940N = 3911,3933 = 3911,3940N                                       |
| +++----- | --+---+-  | --+-+++++ | -----+    | 3911,3935 = 3911,3952                                                                 |
| +++----- | --+---+-  | --+-+++++ | -----+    | 3911,3930 = 3911,3943 = 3943,3953                                                     |
| +++----- | --+---+-  | --+-+++++ | -----+    | 3911,3941 = 3911,3942                                                                 |
| +++----- | --+---+-  | --+-+++++ | -----     | 3901,3911 = 3905,3936 = 3905,3953 = 3911,3936 = 3911,3953                             |
| +++----- | --+---+-  | --+-+++++ | -----     | 390104,3911 = 390109,3911 = 3905,3911 = 3911,3911                                     |
| +++----- | -----+    | --+-+++++ | -----+    | 3910,3943 = 3920,3930 = 3920,3943                                                     |
| +++----- | -----+    | --+-+++++ | -----+    | 3920,3941 = 3920,3942                                                                 |
| +++----- | -----+    | --+-+++++ | -----     | 390104,3920 = 3905,3910 = 3905,3920                                                   |
| +++----- | -----+    | --+-+++++ | -----+    | 3912,3943 = 3931,3943 = 3943,3954                                                     |
| +++----- | -----+    | --+-+++++ | -----     | 3905,3912 = 3905,3931 = 3905,3954                                                     |
| +++----- | -----     | --+-----  | -----     | 3905,3928 = 3905,3945                                                                 |
| +++----- | -----     | --+-----  | -----+    | 3935,3943 = 3943,3952                                                                 |
| +++----- | -----     | --+-----  | -----+    | 3905,3935 = 3905,3952                                                                 |
| +++----- | -----     | --+-----  | -----+    | 3901,3943 = 390104,3943 = 390109,3943 = 3905,3930 = 3905,3943                         |
| +++----- | -----     | --+-----  | -----+    | 3905,3941 = 3905,3942                                                                 |
| +++----- | -----     | --+-----  | -----     | 390104,3905 = 390109,3905 = 3905,3905                                                 |
| +++----- | -----+    | --+-+++++ | -----     | 390201,3951 = 390202,3951 = 3923,3926 = 3923,3951                                     |
| +++----- | -----     | --+-+++++ | -----     | 390201,3926 = 390202,3926                                                             |
| +++----- | -----+    | --+-+++++ | -----     | 3904,3951 = 3946,3951 = 3947,3951                                                     |
| +++----- | -----     | --+-+++++ | -----     | 3904,3926 = 3926,3946 = 3926,3947                                                     |
| +++----- | -+-+----- | --+-+++++ | -----     | 391901,3951 = 391902,3951                                                             |
| +++----- | -+-+----- | --+-+++++ | -----     | 391901,3926 = 391902,3926                                                             |
| +++----- | -+-+----- | --+-+++++ | ---+----- | 3933,3951 = 3940N,3951                                                                |
| +++----- | -+-+----- | --+-+++++ | -----     | 3936,3951 = 3951,3953                                                                 |
| +++----- | -+-+----- | --+-+++++ | -----+    | 3926,3933 = 3926,3940N                                                                |
| +++----- | -+-+----- | --+-+++++ | -----     | 3926,3936 = 3926,3953                                                                 |
| +++----- | -----+    | --+-+++++ | -----     | 3912,3951 = 3931,3951 = 3951,3954                                                     |
| +++----- | -----+    | --+-----  | -----     | 390105,3951 = 3926,3927 = 3927,3951                                                   |
| +++----- | -----+    | --+-----  | -----     | 3928,3951 = 3945,3951                                                                 |
| +++----- | -----+    | --+-+++++ | -----+    | 3935,3951 = 3951,3952                                                                 |
| +++----- | -----+    | --+-+++++ | -----+    | 3941,3951 = 3942,3951                                                                 |
| +++----- | -----+    | --+-+++++ | -----     | 3901,3951 = 390104,3951 = 390109,3951 = 3926,3944 = 3926,3951 = 3944,3951 = 3951,3951 |
| +++----- | -----+    | --+-+++++ | -----     | 3912,3926 = 3926,3931 = 3926,3954                                                     |
| +++----- | -----     | --+-----  | -----     | 3926,3928 = 3926,3945                                                                 |
| +++----- | -----     | --+-----  | -----+    | 3926,3935 = 3926,3952                                                                 |
| +++----- | -----     | --+-+++++ | -----+    | 3926,3941 = 3926,3942                                                                 |

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|          |          |          |         |                                                                       |
|----------|----------|----------|---------|-----------------------------------------------------------------------|
| +++++--- | -----    | --+-+--+ | -----   | 3901,3926 = 390104,3926 = 390109,3926 = 3926,3926                     |
| ++-+++-  | ---+---+ | -+-+--+  | -----   | 390201,3929 = 390202,3929                                             |
| ++-+++-  | -----+   | -+-+--+  | -----   | 390201,3914 = 390202,3914                                             |
| ++-+++-  | -----    | -+-+--+  | -----+  | 390201,3924 = 390202,3924                                             |
| ++-+++-  | -----    | -+-+--+  | -----   | 390201,3903 = 390202,3903                                             |
| ++-+++-  | ---+---  | -+-+--+  | -----   | 3923,3946 = 3923,3947                                                 |
| ++-+++-  | -----    | -+-+--+  | ---+--- | 390201,3950 = 390202,3950                                             |
| ++-+++-  | -----    | -+-+--+  | -----   | 390201,3904 = 390201,3946 = 390201,3947 = 390202,3946 = 390202,3947   |
| ++-+++-  | -----    | -+-+--+  | -----   | 3904,3939 = 3939,3946 = 3939,3947                                     |
| ++-+++-  | +-----   | -+-+--+  | ---+--- | 390201,3906 = 390202,3906                                             |
| ++-+++-  | -+-----  | -+-+--+  | -----   | 390201,391901 = 390201,391902 = 390202,391902                         |
| ++-+++-  | -+-----  | -+-+--+  | -----   | 391901,3939 = 391902,3939                                             |
| ++-+++-  | ---+---  | -+-+--+  | ---+--- | 3923,3933 = 3923,3940N                                                |
| ++-+++-  | ---+---  | -+-+--+  | -----   | 3923,3936 = 3923,3953                                                 |
| ++-+++-  | ---+---  | -+-+--+  | ---+--- | 390201,3918 = 390202,3918                                             |
| ++-+++-  | ---+---  | -+-+--+  | ---+--- | 390201,3933 = 390201,3940N = 390202,3933 = 390202,3940N               |
| ++-+++-  | ---+---  | -+-+--+  | -----   | 390201,3936 = 390201,3953 = 390202,3936 = 390202,3953                 |
| ++-+++-  | ---+---  | -+-+--+  | ---+--- | 3933,3939 = 3939,3940N                                                |
| ++-+++-  | ---+---  | -+-+--+  | -----   | 3936,3939 = 3939,3953                                                 |
| ++-+++-  | ---+---  | -+-+--+  | -----   | 390201,3915 = 390202,3915                                             |
| ++-+++-  | ---+---  | -+-+--+  | -----   | 390105,3923 = 390201,3927 = 390202,3927 = 3923,3927                   |
| ++-+++-  | ---+---  | -+-+--+  | -----+  | 3923,3941 = 3923,3942                                                 |
| ++-+++-  | ---+---  | -+-+--+  | -----   | 3901,3923 = 390201,3944 = 390202,3944 = 3923,3944                     |
| ++-+++-  | -----+   | -+-+--+  | ---+--- | 390201,3938Q = 390202,3938Q                                           |
| ++-+++-  | -----+   | -+-+--+  | -----   | 390201,3912 = 390201,3931 = 390202,3931                               |
| ++-+++-  | -----+   | -+-+--+  | -----   | 3912,3939 = 3931,3939                                                 |
| ++-+++-  | -----+   | -+-+--+  | -----   | 390201,3909 = 390202,3909                                             |
| ++-+++-  | -----    | +++--+   | -----   | 390201,3925N = 390202,3925N                                           |
| ++-+++-  | -----    | +++--+   | -----   | 390105,390201 = 390105,390202                                         |
| ++-+++-  | -----    | -+-+---  | -----   | 390201,3928 = 390201,3945 = 390202,3928                               |
| ++-+++-  | -----    | -+-+---  | +-----  | 39010102L,390201 = 39010102L,390202                                   |
| ++-+++-  | -----    | -+-+---  | ---+--- | 390201,3932 = 390202,3932                                             |
| ++-+++-  | -----    | -+-+---  | ---+--- | 390201,3948 = 390202,3948                                             |
| ++-+++-  | -----    | -+-+---  | ---+--- | 390201,3934 = 390202,3934                                             |
| ++-+++-  | -----    | -+-+---  | ---+--- | 390201,3935 = 390202,3935                                             |
| ++-+++-  | -----    | -+-+---  | ---+--- | 390201,3930 = 390202,3930                                             |
| ++-+++-  | -----    | -+-+---  | -----+  | 390201,3941 = 390201,3942 = 390202,3941 = 390202,3942                 |
| ++-+++-  | -----    | -+-+---  | -----   | 3901,390201 = 3901,390202 = 390104,390201 = 390109,390201 = 3922,3939 |
| ++-+++-  | -----    | -+-+---  | -----   | 390201,3922 = 390202,3922                                             |
| ++-+++-  | -----    | ---+---  | -----   | 3928,3939 = 3939,3945                                                 |
| ++-+++-  | -----    | ---+---  | -----+  | 3939,3941 = 3939,3942                                                 |
| ++-+++-  | -----    | ---+---  | -----   | 3901,3939 = 390104,3939 = 390109,3939                                 |
| ++-+++-  | ---+---  | ---+---  | -----   | 3904,3929 = 3929,3946                                                 |
| ++-+++-  | ---+---  | ---+---  | -----   | 3917,3946 = 3917,3947                                                 |
| ++-+++-  | -----+   | ---+---  | -----   | 3904,3914 = 3914,3946                                                 |
| ++-+++-  | -----    | ---+---  | -----+  | 3904,3924 = 3924,3946                                                 |
| ++-+++-  | -----    | ---+---  | -----   | 3903,3904 = 3903,3946                                                 |
| ++-+++-  | -+-+---  | ---+---  | -----   | 391901,3929 = 391902,3929                                             |
| ++-+++-  | -+-+---  | ---+---  | -----   | 3914,391901 = 3914,391902                                             |

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|         |         |        |        |                                                                                               |
|---------|---------|--------|--------|-----------------------------------------------------------------------------------------------|
| ++-+--+ | -+----- | --+--+ | -----+ | 391901,3924 = 391902,3924                                                                     |
| ++-+--+ | -+----- | --+--+ | -----  | 3903,391901 = 3903,391902                                                                     |
| ++-+--+ | -+----- | --+--+ | -----  | 3917,3933 = 3917,3940N                                                                        |
| ++-+--+ | -+----- | --+--+ | -----  | 3917,3936 = 3917,3953                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3910,3929 = 3917,3929                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3912,3929 = 3929,3931 = 3929,3954                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 390105,3929 = 3909,3929                                                                       |
| ++-+--+ | -+----- | --+--+ | -----  | 3929,3935 = 3929,3952                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3929,3941 = 3929,3942                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3901,3929 = 390104,3929 = 390109,3929 = 3914,3915 = 3915,3929                                 |
| ++-+--+ | -+----- | --+--+ | -----  | 3903,3929 = 3914,3929 = 3929,3929                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3910,3914 = 3914,3917                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3903,3916 = 3914,3916                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3910,3924 = 3917,3924 = 3917,3941 = 3917,3942                                                 |
| ++-+--+ | -+----- | --+--+ | -----  | 3901,3917 = 3903,3910 = 3903,3917                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3912,3914 = 3914,3931 = 3914,3954                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3912,3924 = 3924,3931 = 3924,3954                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3903,3912 = 3903,3931 = 3903,3954                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 390105,3914 = 3903,3909 = 3909,3914                                                           |
| ++-+--+ | -+----- | --+--+ | -----  | 3914,3935 = 3914,3952                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3914,3941 = 3914,3942                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3901,3914 = 390104,3914 = 390109,3914                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3903,3914 = 3914,3914                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3924,3935 = 3924,3952                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3903,3935 = 3903,3952                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3901,3924 = 390104,3924 = 390109,3924 = 3903,3941 = 3903,3942 = 3924,3941 = 3924,3942         |
| ++-+--+ | -+----- | --+--+ | -----  | 3901,3903 = 390104,3903 = 390109,3903                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3903,3924 = 3924,3924                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3906 = 3906,3946                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 391901,3950 = 391902,3950                                                                     |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,391902 = 391901,3946 = 391901,3947 = 391902,3946 = 391902,3947                           |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3918 = 3918,3946 = 3918,3947                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3933 = 3904,3940N = 3933,3946 = 3940N,3946 = 3940N,3947                                  |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3936 = 3904,3953 = 3936,3946 = 3946,3953 = 3947,3953                                     |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3915 = 3915,3946 = 3915,3947                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3927 = 3927,3946 = 3927,3947                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3944 = 3944,3946 = 3944,3947                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3910,3946 = 3910,3947                                                                         |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3938Q = 3938Q,3946 = 3938Q,3947                                                          |
| ++-+--+ | -+----- | --+--+ | -----  | 3912,3950 = 3931,3950 = 3950,3954                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3931 = 3904,3954 = 3912,3946 = 3912,3947 = 3931,3946 = 3931,3947 = 3946,3954 = 3947,3954 |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3909 = 3909,3946 = 3909,3947                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3925N = 3925N,3946 = 3925N,3947                                                          |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3922 = 3922,3946 = 3922,3947                                                             |
| ++-+--+ | -+----- | --+--+ | -----  | 390105,3904 = 390105,3946 = 390105,3947                                                       |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3928 = 3928,3946 = 3945,3946 = 3945,3947                                                 |
| ++-+--+ | -+----- | --+--+ | -----  | 39010102L,3904 = 39010102L,3946 = 39010102L,3947                                              |
| ++-+--+ | -+----- | --+--+ | -----  | 3904,3932 = 3932,3946                                                                         |

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|          |          |          |           |                                                                                                                                                                  |
|----------|----------|----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ++-+---+ | -----    | --+-+--+ | --+-----  | 3904,3948 = 3946,3948 = 3947,3948                                                                                                                                |
| ++-+---+ | -----    | --+-+--+ | -----++-  | 3935,3950 = 3950,3952                                                                                                                                            |
| ++-+---+ | -----    | --+-+--+ | -----+--  | 3904,3934 = 3934,3946                                                                                                                                            |
| ++-+---+ | -----    | --+-+--+ | -----+--- | 3901,3950 = 390104,3950 = 390109,3950 =<br>3904,3950 = 3946,3950                                                                                                 |
| ++-+---+ | -----    | --+-+--+ | -----+--- | 3904,3935 = 3904,3952 = 3935,3946 =<br>3935,3947 = 3946,3952 = 3947,3952                                                                                         |
| ++-+---+ | -----    | --+-+--+ | -----+--  | 3904,3930 = 3930,3946                                                                                                                                            |
| ++-+---+ | -----    | --+-+--+ | -----+--  | 3904,3941 = 3904,3942 = 3941,3946 =<br>3941,3947 = 3942,3946                                                                                                     |
| ++-+---+ | -----    | --+-+--+ | -----+--- | 3901,3904 = 3901,3946 = 3901,3947 =<br>390104,3904 = 390104,3946 = 390104,3947<br>= 390109,3946 = 390109,3947 = 3904,3946<br>= 3904,3947 = 3946,3946 = 3946,3947 |
| ++-+---+ | -----    | --+-+--+ | -----+--- | 390109,3904 = 3904,3904                                                                                                                                          |
| ++-+---+ | ++-----  | --+-+--+ | -----+--- | 3906,391901 = 3906,391902                                                                                                                                        |
| ++-+---+ | +-----+  | --+-+--+ | -----+--- | 3906,3912 = 3906,3931 = 3906,3954                                                                                                                                |
| ++-+---+ | +-----   | --+-+--+ | -----+--- | 3906,3935 = 3906,3952                                                                                                                                            |
| ++-+---+ | +-----   | --+-+--+ | -----+--- | 3901,3906 = 390104,3906 = 390109,3906                                                                                                                            |
| ++-+---+ | -++----- | --++-++  | -----+--- | 3918,391901 = 3918,391902                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3933 = 391901,3940N =<br>391902,3933 = 391902,3940N                                                                                                       |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3936 = 391901,3953 = 391902,3936<br>= 391902,3953                                                                                                         |
| ++-+---+ | -++----- | --++-++  | -----+--- | 3915,391901 = 3915,391902                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3927 = 391902,3927                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3944 = 391902,3944                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3938Q = 391902,3938Q                                                                                                                                      |
| ++-+---+ | -++----- | --++-++  | -----+--- | 3912,391902 = 391901,3931 = 391901,3954<br>= 391902,3931 = 391902,3954                                                                                           |
| ++-+---+ | -++----- | --++-++  | -----+--- | 3909,391901 = 3909,391902                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3925N = 391902,3925N                                                                                                                                      |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3922 = 391902,3922                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 390105,391901 = 390105,391902                                                                                                                                    |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3928 = 391902,3928 = 391902,3945                                                                                                                          |
| ++-+---+ | -++----- | --++-++  | +-----    | 39010102L,391901 = 39010102L,391902                                                                                                                              |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3932 = 391902,3932                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3948 = 391902,3948                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3934 = 391902,3934                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3935 = 391901,3952 = 391902,3935<br>= 391902,3952                                                                                                         |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3930 = 391902,3930                                                                                                                                        |
| ++-+---+ | -++----- | --++-++  | -----+--- | 391901,3941 = 391901,3942 = 391902,3941<br>= 391902,3942                                                                                                         |
| ++-+---+ | -++----- | --++-++  | -----+--- | 3901,391901 = 3901,391902 =<br>390104,391902 = 390109,391902 = 391901,391902 = 391902,391902                                                                     |
| ++-+---+ | -----    | --++-++  | -----+--- | 3915,3933 = 3915,3940N                                                                                                                                           |
| ++-+---+ | -----    | --++-++  | -----+--- | 3915,3936 = 3915,3953                                                                                                                                            |
| ++-+---+ | -----    | --++-++  | -----+--- | 3927,3933 = 3927,3940N                                                                                                                                           |
| ++-+---+ | -----    | --++-++  | -----+--- | 3918,3927 = 3918,3944                                                                                                                                            |
| ++-+---+ | -----    | --++-++  | -----+--- | 3927,3936 = 3927,3953                                                                                                                                            |
| ++-+---+ | -----    | --++-++  | -----+--- | 3933,3944 = 3940N,3944                                                                                                                                           |
| ++-+---+ | -----    | --++-++  | -----+--- | 3936,3944 = 3944,3953                                                                                                                                            |
| ++-+---+ | -----    | --++-++  | -----+--- | 3910,3933 = 3910,3940N                                                                                                                                           |
| ++-+---+ | -----    | --++-++  | -----+--- | 3910,3936 = 3910,3953                                                                                                                                            |
| ++-+---+ | -----    | --++-++  | -----+--- | 3912,3918 = 3918,3931 = 3918,3954                                                                                                                                |
| ++-+---+ | -----    | --++-++  | -----+--- | 3933,3938Q = 3938Q,3940N                                                                                                                                         |
| ++-+---+ | -----    | --++-++  | -----+--- | 3936,3938Q = 3938Q,3953                                                                                                                                          |

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|           |           |          |           |                                                                                                                                                            |
|-----------|-----------|----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ++-+----- | --+-----+ | --+--+++ | ---+----- | 3912,3933 = 3912,3940N = 3931,3933 =<br>3931,3940N = 3933,3954 = 3940N,3954                                                                                |
| ++-+----- | --+-----+ | --+--+++ | -----     | 3912,3936 = 3912,3953 = 3931,3936 =<br>3931,3953 = 3936,3954 = 3953,3954                                                                                   |
| ++-+----- | --+-----+ | --+--+++ | ---+----- | 3909,3933 = 3909,3940N                                                                                                                                     |
| ++-+----- | --+-----+ | --+--+++ | -----     | 3909,3936 = 3909,3953                                                                                                                                      |
| ++-+----- | --+-----+ | +-+--+++ | ---+----- | 3925N,3933 = 3925N,3940N                                                                                                                                   |
| ++-+----- | --+-----+ | +-+--+++ | -----     | 3925N,3936 = 3925N,3953                                                                                                                                    |
| ++-+----- | --+-----+ | +-+--+++ | ---+----- | 3922,3933 = 3922,3940N                                                                                                                                     |
| ++-+----- | --+-----+ | +-+--+++ | -----     | 3922,3936 = 3922,3953                                                                                                                                      |
| ++-+----- | --+-----+ | -----    | -----     | 3918,3928 = 3918,3945                                                                                                                                      |
| ++-+----- | --+-----+ | -----    | -----     | 3918,3933 = 3918,3940N                                                                                                                                     |
| ++-+----- | --+-----+ | -----    | -----     | 390105,3933 = 390105,3940N                                                                                                                                 |
| ++-+----- | --+-----+ | -----    | -----     | 3918,3941 = 3918,3942                                                                                                                                      |
| ++-+----- | --+-----+ | -----    | -----     | 3901,3918 = 390104,3918 = 390105,3918 =<br>390109,3918 = 3918,3918 = 3918,3935 =<br>3918,3936 = 3918,3952 = 3918,3953                                      |
| ++-+----- | --+-----+ | -----    | -----     | 390105,3936 = 390105,3953                                                                                                                                  |
| ++-+----- | --+-----+ | -----    | -----     | 3928,3940N = 3933,3945 = 3940N,3945                                                                                                                        |
| ++-+----- | --+-----+ | -----    | -----     | 3928,3953 = 3936,3945 = 3945,3953                                                                                                                          |
| ++-+----- | --+-----+ | +-+--+++ | +-+-----  | 39010102L,3933 = 39010102L,3940N                                                                                                                           |
| ++-+----- | --+-----+ | +-+--+++ | +-+-----  | 39010102L,3936 = 39010102L,3953                                                                                                                            |
| ++-+----- | --+-----+ | +-+--+++ | +-+-----  | 3932,3940N = 3932,3953 = 3933,3948 =<br>3940N,3948                                                                                                         |
| ++-+----- | --+-----+ | +-+--+++ | +-+-----  | 3936,3948 = 3948,3953                                                                                                                                      |
| ++-+----- | --+-----+ | +-+--+++ | -----     | 3933,3935 = 3933,3952 = 3935,3940N =<br>3940N,3952                                                                                                         |
| ++-+----- | --+-----+ | +-+--+++ | -----     | 3933,3941 = 3940N,3941 = 3940N,3942                                                                                                                        |
| ++-+----- | --+-----+ | +-+--+++ | -----     | 3901,3933 = 3901,3940N = 390104,3933 =<br>390104,3940N = 390109,3933 =<br>390109,3940N = 3933,3940N = 3933,3953 =<br>3936,3940N = 3940N,3940N = 3940N,3953 |
| ++-+----- | --+-----+ | +-+--+++ | -----     | 3935,3936 = 3935,3953 = 3936,3952 =<br>3952,3953                                                                                                           |
| ++-+----- | --+-----+ | +-+--+++ | -----     | 3936,3941 = 3941,3953 = 3942,3953                                                                                                                          |
| ++-+----- | --+-----+ | +-+--+++ | -----     | 3901,3936 = 3901,3953 = 390104,3936 =<br>390104,3953 = 390109,3936 = 390109,3953<br>= 3936,3953 = 3953,3953                                                |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3912,3915 = 3915,3931 = 3915,3954                                                                                                                          |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3915,3928 = 3915,3945                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3915,3935 = 3915,3952                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3915,3941 = 3915,3942                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3901,3915 = 390104,3915 = 390109,3915 =<br>3915,3915                                                                                                       |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3912,3927 = 3927,3931 = 3927,3954                                                                                                                          |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3912,3944 = 3931,3944 = 3944,3954                                                                                                                          |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3909,3927 = 3909,3944                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3927,3928 = 3927,3945                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3927,3935 = 3927,3952                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3927,3941 = 3927,3942                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3901,3927 = 390104,3927 = 390105,3927 =<br>390105,3944 = 390109,3927 = 3927,3927 =<br>3927,3944                                                            |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3928,3944 = 3944,3945                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3935,3944 = 3944,3952                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3941,3944 = 3942,3944                                                                                                                                      |
| ++-+----- | ---+----- | +-+--+++ | -----     | 3901,3944 = 390104,3944 = 390109,3944 =<br>3944,3944                                                                                                       |
| ++-+----- | ---+----- | +-+--+++ | -----     | 390105,3916 = 3909,3910 = 3909,3916                                                                                                                        |



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|           |         |          |         |                                                                                                                                                                  |
|-----------|---------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ++---+--- | -----++ | --+-+--+ | -----+  | 3916,3941 = 3916,3942                                                                                                                                            |
| ++---+--- | -----++ | --+-+--+ | -----+  | 3910,3941 = 3910,3942                                                                                                                                            |
| ++---+--- | -----++ | --+-+--+ | -----   | 3909,3912 = 3909,3931 = 3909,3954                                                                                                                                |
| ++---+--- | -----++ | ++-+-++  | -----   | 3912,3925N = 3925N,3931 = 3925N,3954                                                                                                                             |
| ++---+--- | -----++ | ++-+-++  | -----   | 3912,3922 = 3922,3931 = 3922,3954                                                                                                                                |
| ++---+--- | -----++ | ++-+-++  | -----   | 390105,3912 = 390105,3931 = 390105,3954                                                                                                                          |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3928,3938Q = 3938Q,3945                                                                                                                                          |
| ++---+--- | -----++ | ++-+-++  | -----   | 3912,3928 = 3928,3931 = 3928,3954 =<br>3931,3945 = 3945,3954                                                                                                     |
| ++---+--- | -----++ | ++-+-++  | ++----- | 39010102L,3912 = 39010102L,3931 =<br>39010102L,3954                                                                                                              |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3912,3932 = 3931,3932 = 3932,3938Q =<br>3932,3954                                                                                                                |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3935,3938Q = 3938Q,3952                                                                                                                                          |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3938Q,3941 = 3938Q,3942                                                                                                                                          |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3901,3938Q = 390104,3938Q =<br>390109,3938Q = 3912,3938Q = 3912,3948 =<br>3931,3938Q = 3931,3948 = 3938Q,3938Q =<br>3938Q,3948 = 3938Q,3954 = 3948,3954          |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3912,3934 = 3931,3934 = 3934,3954                                                                                                                                |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3912,3935 = 3912,3952 = 3931,3935 =<br>3931,3952 = 3935,3954                                                                                                     |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3912,3930 = 3930,3931 = 3930,3954                                                                                                                                |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3912,3941 = 3912,3942 = 3931,3941 =<br>3931,3942 = 3941,3954 = 3942,3954                                                                                         |
| ++---+--- | -----++ | ++-+-++  | -----   | 3901,3912 = 3901,3931 = 3901,3954 =<br>390104,3912 = 390104,3931 = 390104,3954<br>= 390109,3931 = 390109,3954 = 3912,3931<br>= 3912,3954 = 3931,3931 = 3931,3954 |
| ++---+--- | -----++ | ++-+-++  | -----   | 390109,3912 = 3912,3912                                                                                                                                          |
| ++---+--- | -----++ | ++-+-++  | -----   | 3909,3928 = 3909,3945                                                                                                                                            |
| ++---+--- | -----++ | ++-+-++  | -----   | 3909,3935 = 3909,3952                                                                                                                                            |
| ++---+--- | -----++ | ++-+-++  | -----   | 3909,3941 = 3909,3942                                                                                                                                            |
| ++---+--- | -----++ | ++-+-++  | -----   | 3901,3909 = 390104,3909 = 390105,3909 =<br>390109,3909 = 3909,3909                                                                                               |
| ++---+--- | -----++ | ++-+-++  | -----   | 3925N,3928 = 3925N,3945                                                                                                                                          |
| ++---+--- | -----++ | ++-+-++  | -----   | 3925N,3935 = 3925N,3952                                                                                                                                          |
| ++---+--- | -----++ | ++-+-++  | -----   | 3925N,3941 = 3925N,3942                                                                                                                                          |
| ++---+--- | -----++ | ++-+-++  | -----   | 3901,3925N = 390104,3925N =<br>390109,3925N = 3925N,3925N                                                                                                        |
| ++---+--- | -----++ | ++-+-++  | -----   | 3922,3928 = 3922,3945                                                                                                                                            |
| ++---+--- | -----++ | ++-+-++  | -----   | 3922,3935 = 3922,3952                                                                                                                                            |
| ++---+--- | -----++ | ++-+-++  | -----   | 3922,3941 = 3922,3942                                                                                                                                            |
| ++---+--- | -----++ | ++-+-++  | -----   | 3901,3922 = 390104,3922 = 390109,3922                                                                                                                            |
| ++---+--- | -----++ | ++-+-++  | -----   | 390105,3928 = 390105,3945                                                                                                                                        |
| ++---+--- | -----++ | ++-+-++  | -----   | 390105,3935 = 390105,3952                                                                                                                                        |
| ++---+--- | -----++ | ++-+-++  | -----   | 390105,3941 = 390105,3942                                                                                                                                        |
| ++---+--- | -----++ | ++-+-++  | -----   | 3901,390105 = 390104,390105 =<br>390105,390105 = 390105,390109                                                                                                   |
| ++---+--- | -----++ | ++-+-++  | ++----- | 39010102L,3928 = 39010102L,3945                                                                                                                                  |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3928,3948 = 3945,3948                                                                                                                                            |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3928,3935 = 3928,3952 = 3935,3945 =<br>3945,3952                                                                                                                 |
| ++---+--- | -----++ | ++-+-++  | ---+--- | 3928,3941 = 3928,3942 = 3941,3945 =<br>3942,3945                                                                                                                 |
| ++---+--- | -----++ | ++-+-++  | -----   | 3901,3928 = 3901,3945 = 390104,3928 =<br>390104,3945 = 390109,3928 = 3928,3945                                                                                   |
| ++---+--- | -----++ | ++-+-++  | -----   | 390109,3945 = 3945,3945                                                                                                                                          |
| ++---+--- | -----++ | ++-+-++  | ++----- | 39010102L,3935 = 39010102L,3952                                                                                                                                  |

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|           |       |          |          |                                         |
|-----------|-------|----------|----------|-----------------------------------------|
| ++---+--- | ----- | --+-+--+ | +-----+  | 39010102L,3941 = 39010102L,3942         |
| ++---+--- | ----- | --+-+--+ | +-----   | 3901,39010102L = 39010102L,39010102L =  |
|           |       |          |          | 39010102L,390104 = 39010102L,390109     |
| ++---+--- | ----- | --+-+--+ | --++-+-- | 3932,3935 = 3932,3952                   |
| ++---+--- | ----- | --+-+--+ | --++-+-- | 3901,3932 = 390104,3932 = 390109,3932 = |
|           |       |          |          | 3932,3948                               |
| ++---+--- | ----- | --+-+--+ | --+-+--  | 3935,3948 = 3948,3952                   |
| ++---+--- | ----- | --+-+--+ | --+-+--  | 3941,3948 = 3942,3948                   |
| ++---+--- | ----- | --+-+--+ | --+-+--  | 3901,3948 = 390104,3948 = 390109,3948 = |
|           |       |          |          | 3948,3948                               |
| ++---+--- | ----- | --+-+--+ | -----++- | 3934,3935 = 3934,3952                   |
| ++---+--- | ----- | --+-+--+ | -----++- | 3901,3934 = 390104,3934 = 390109,3934   |
| ++---+--- | ----- | --+-+--+ | -----++- | 3930,3935 = 3930,3952                   |
| ++---+--- | ----- | --+-+--+ | -----++- | 3935,3941 = 3935,3942 = 3941,3952 =     |
|           |       |          |          | 3942,3952                               |
| ++---+--- | ----- | --+-+--+ | -----+-  | 3901,3935 = 3901,3952 = 390104,3935 =   |
|           |       |          |          | 390104,3952 = 390109,3935 = 390109,3952 |
|           |       |          |          | = 3935,3935 = 3935,3952                 |
| ++---+--- | ----- | --+-+--+ | -----+-  | 3901,3930 = 390104,3930 = 390109,3930   |
| ++---+--- | ----- | --+-+--+ | -----+-  | 3901,3941 = 3901,3942 = 390104,3941 =   |
|           |       |          |          | 390104,3942 = 390109,3941 = 390109,3942 |
|           |       |          |          | = 3941,3941 = 3941,3942                 |
| ++---+--- | ----- | --+-+--+ | -----    | 3901,3901 = 3901,390104 = 3901,390109   |
| ++---+--- | ----- | --+-+--+ | -----    | 390104,390104 = 390104,390109           |
| ++---+--- | ----- | --+-+--+ | -----    | 390109,391901 = 391901,391901           |
| ++---+--- | ----- | --+-+--+ | -----    | 3908,3910 = 3908,3920                   |
| ++---+--- | ----- | --+-+--+ | -----    | 390202,3908 = 3908,3908 = 3908,3913     |
| ++---+--- | ----- | --+-+--+ | -----    | 3910,3949 = 3920,3949                   |
| ++---+--- | ----- | --+-+--+ | -----    | 390202,3949 = 3913,3949 = 3949,3949     |
| ++---+--- | ----- | --+-+--+ | -----    | 390202,3920 = 3910,3913 = 3913,3920     |
| ++---+--- | ----- | --+-+--+ | -----    | 390202,3913 = 3913,3913                 |
| ++---+--- | ----- | --+-+--+ | -----    | 3910,3920 = 3920,3920                   |
| ++---+--- | ----- | --+-+--+ | -----    | 390201,3954 = 390202,3954               |
| ++---+--- | ----- | --+-+--+ | -----    | 390201,3952 = 390202,3952               |
| ++---+--- | ----- | --+-+--+ | -----    | 390201,3939 = 390202,3939               |
| ++---+--- | ----- | --+-+--+ | -----    | 390201,390201 = 390201,390202           |
| ++---+--- | ----- | --+-+--+ | -----    | 390202,3923 = 3923,3923                 |
| ++---+--- | ----- | --+-+--+ | -----    | 3910,3917 = 3917,3917                   |
| ++---+--- | ----- | --+-+--+ | -----    | 3930,3943 = 3943,3943                   |
| ++---+--- | ----- | --+-+--+ | -----    | 3906,3947 = 3906,3950                   |
| ++---+--- | ----- | --+-+--+ | -----    | 3930,3950 = 3934,3947 = 3934,3950       |
| ++---+--- | ----- | --+-+--+ | -----    | 3947,3950 = 3950,3950                   |
| ++---+--- | ----- | --+-+--+ | -----    | 3906,3930 = 3906,3934                   |
| ++---+--- | ----- | --+-+--+ | -----    | 3932,3933 = 3932,3936                   |
| ++---+--- | ----- | --+-+--+ | -----    | 3933,3933 = 3933,3936                   |
| ++---+--- | ----- | --+-+--+ | -----    | 3930,3934 = 3934,3934                   |

3901 = 39010101,390103, 390106-390108 and 390110  
3906 = 390601-390602  
3913 = 391301-391302

## SPECIFICITY TABLE

### HLA-B\*39 SSP subtyping

Specificities and sizes of the PCR products of the 32 primer mixes used for HLA-B\*39 SSP subtyping

| Primer Mix | Size of spec. PCR product <sup>1</sup> | Size of control band <sup>2</sup> | Amplified HLA-B*39 alleles <sup>3</sup>                                                                                                                               | Other amplified HLA-Class I alleles <sup>4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|----------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>   | 230 bp                                 | <b>800 bp</b>                     | *39010101,<br>39010102L,<br>390103-3905,<br>3907-3920, 3922-<br>3929, 3931, 3935,<br>3937-3941, 3944-<br>3946, 3948, 3949,<br>3951-3954                               | *1569, 380101-3807, 3809,<br>3811-3814, 3816-3819,<br>5820, 670101-6702                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>2</b>   | 170 bp                                 | 1070 bp                           | *39010101,<br>39010102L,<br>390103-390110,<br>3903-3907, 3909,<br>3911, 3912, 3914,<br>3915, 3918-<br>391902, 3922,<br>3924-3938Q,<br>3940N-3948,<br>3950, 3951, 3953 | *0769, 0785, 1401-1416,<br>1509, 1510, 151801-151803,<br>1523, 1537, 1551, 1552,<br>1572, 1580, 1590, 1593,<br>1599, 9508, 9514, 9515,<br>9519, 9524, 9533, 9534,<br>9553, 9561, 9576, 1833,<br>380101-380202, 3804, 3805,<br>3808-3815, 3817-3820                                                                                                                                                                                                                                                            |
| <b>3</b>   | 200 bp                                 | <b>800 bp</b>                     | *3905, 3907, 3908,<br>3911, 391301,<br>391302, 3920,<br>3937, 3943, 3949                                                                                              | *0716, 0727, 0737, 0738,<br>0750, 0775, 0791, 0803,<br>0823, 1414, 150301-150303,<br>1509, 1510, 151801-151803,<br>1523, 1529, 1537-153802,<br>1547, 1549, 1551, 1552,<br>1554, 1562, 1564, 1568,<br>1569, 1572, 1574, 1580,<br>1590, 1591, 1593, 1598,<br>1599, 9503, 9508, 9514,<br>9515, 9519, 9523, 9524,<br>9527, 9531-9534, 9551,<br>9553, 9556, 9558, 9561,<br>9573, 9576, 180101-1815,<br>1817N-1845, 3521, 3524,<br>3525, 370101-3719, 380101-<br>380202, 3804-3812, 3815,<br>3817-3820, 4012, 4211, |

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|                            |                |               |                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                         |
|----------------------------|----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                |               |                                                                                                                                                          | 480101-4820, 5137, 5145,<br>5163, 5216, 5302, 5306,<br>5714, 5809, 5812                                                                                                                                                                                                                                                 |
| <b>4<sup>5,9</sup></b>     | 145, 385<br>bp | 1070 bp       | *3926, 3951                                                                                                                                              |                                                                                                                                                                                                                                                                                                                         |
| <b>5<sup>5</sup></b>       | 105 bp         | <b>800 bp</b> | *39010101,<br>39010102L,<br>390103-390108,<br>390110, 390201,<br>3903-3909, 3911,<br>3912, 3914, 3915,<br>3918, 391902,<br>3922, 3924-3948,<br>3950-3954 | *1401-140202, 1403-1416,<br>3526, 670101                                                                                                                                                                                                                                                                                |
| <b>6</b>                   | 170 bp         | <b>800 bp</b> | *390201, 390202,<br>3908, 391301,<br>391302, 3923,<br>3939, 3949                                                                                         | *0727, 0750, 0804, 0817,<br>150301-150303, 1547, 1554,<br>1561, 1562, 1564, 1568,<br>1569, 1591, 1598, 9503,<br>9523, 9527, 9531, 9532,<br>9551, 9556, 9558, 9573,<br>180101-1803, 1805, 1806,<br>1808-1815, 1817N-1828,<br>1830-1832, 1834-1845,<br>370101-3719, 3803, 4012,<br>4211, 480101-4805, 4807-<br>4820, 5216 |
| <b>7<sup>6,10</sup></b>    | 165, 220<br>bp | 1070 bp       | *3903, 3914, 3917,<br>3924, 3929, 3937                                                                                                                   | *3819                                                                                                                                                                                                                                                                                                                   |
| <b>8<sup>11</sup></b>      | 180, 405<br>bp | 1070 bp       | *3904, 3946, 3947,<br>3950                                                                                                                               | *1411, 3526, 4036, 4077,<br>4086, 4807                                                                                                                                                                                                                                                                                  |
| <b>9<sup>6</sup></b>       | 230 bp         | 1070 bp       | *390601, 390602                                                                                                                                          |                                                                                                                                                                                                                                                                                                                         |
| <b>10<sup>5,12</sup></b>   | 105, 165<br>bp | <b>800 bp</b> | *3907, 391901,<br>391902                                                                                                                                 | *1569, 1833, 3535, 3582,<br>3585, 5122, 7803                                                                                                                                                                                                                                                                            |
| <b>11<sup>8</sup></b>      | 170 bp         | 1070 bp       | *3908, 3911, 3918,<br>3933, 3936,<br>3940N, 3953                                                                                                         | *0778, 1318, 1558, 1573,<br>5410, 5509, 5521, 5537,<br>5619N                                                                                                                                                                                                                                                            |
| <b>12</b>                  | 175 bp         | <b>800 bp</b> | *3907, 3915, 3929,<br>3949                                                                                                                               | *1569, 3535                                                                                                                                                                                                                                                                                                             |
| <b>13<sup>5,6,13</sup></b> | 85, 385<br>bp  | <b>800 bp</b> | *3923, 3927, 3944,<br>3951                                                                                                                               |                                                                                                                                                                                                                                                                                                                         |
| <b>14<sup>5</sup></b>      | 80 bp          | 1070 bp       | *3910, 3916, 3917,<br>3920                                                                                                                               | *070201-0707, 0709, 0711,<br>0712, 0714-0726, 0728-<br>0731, 0733-0735, 0737,<br>0739-0749N, 0751-0768,<br>0770-0780, 0782, 0784,<br>0786-0799, 151101-151104,<br>1576, 9501, 9543, 9548,                                                                                                                               |

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|                              |             |               |                                                                                                                                                               |                                                                                                                                                                                                                                                           |
|------------------------------|-------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              |             |               |                                                                                                                                                               | 9552, 3576, 4061, 420101-4202, 4204-4210, 4212, 4213, 4506, 5401-5411, 5413-5419, 550101-5505, 5507-5517, 5519-5533, 5535-5538, 560101-5606, 5609-5613, 5615-5620, 5622-5626, 670101, 670102, 8101-8104N, 8201, 8202, 8301                                |
| <b>15</b> <sup>5,7,14</sup>  | 145, 190 bp | <b>800 bp</b> | *3912, 3931, 3938Q, 3954                                                                                                                                      |                                                                                                                                                                                                                                                           |
| <b>16</b> <sup>8,12,15</sup> | 165, 220 bp | <b>800 bp</b> | *3909, 3914, 3916, 3929                                                                                                                                       |                                                                                                                                                                                                                                                           |
| <b>17</b>                    | 180 bp      | <b>800 bp</b> | *3925N                                                                                                                                                        |                                                                                                                                                                                                                                                           |
| <b>18</b>                    | 160 bp      | <b>800 bp</b> | *390201, 390202, 3908, 391301, 391302, 3922, 3923, 3949                                                                                                       | *0817, 0838, 150301-150303, 1547, 1549, 1554, 1561, 1562, 1568, 1569, 1574, 1591, 1598, 9503, 9523, 9527, 9531, 9532, 9551, 9556, 9558, 9573, 1812, 370101-3707, 3709-3719, 3803, 3804, 4012, 4211, 480101-4805, 4807-4815, 4817-4820, 5216               |
| <b>19</b>                    | 385 bp      | 1070 bp       | *39010101, 39010102L, 390103-390110, 3903-3907, 3909-3912, 3914-3920, 3924-3948, 3950-3954                                                                    | *070201-0712, 0714-0753, 0755-0764, 0766-0799, 080101-0809, 0811-0816, 0818-0837, 0839-0847, 1401-1403, 1405-1416, 380101-380202, 3805-3820, 4025 <sup>?</sup> , 4068 <sup>?</sup> , 420101-4202, 4204-4210, 4212, 4213, 4806, 670101, 670102, 7301, 8102 |
| <b>20</b> <sup>5,7,16</sup>  | 100, 215 bp | <b>800 bp</b> | *390105, 3909, 3918, 3927                                                                                                                                     | *1569                                                                                                                                                                                                                                                     |
| <b>21</b>                    | 220 bp      | <b>800 bp</b> | *39010101, 39010102L, 390103-390202, 3904, 3905, 3907-391302, 3915, 3917-3920, 3922, 3923, 3925N-3927, 3931, 3935, 3938Q-3941, 3942 <sup>w</sup> , 3944-3946, | *1569, 380101-3807, 3808 <sup>w</sup> , 3809, 3811-3818, 5820, 670101-6702                                                                                                                                                                                |

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|                             |             |               |                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|-------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |             |               | 3948, 3949, 3951-3954                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |
| <b>22</b> <sup>5,6,17</sup> | 150, 225 bp | <b>800 bp</b> | *3928, 3945                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                       |
| <b>23</b> <sup>5,7</sup>    | 85 bp       | <b>800 bp</b> | *39010101, 39010102L, 390103, 390105-390108, 390110, 390201, 3903, 3904, 390601, 390602, 3909, 3912, 3914, 3915, 3918, 391902, 3922, 3924-3936, 3938Q-3948, 3950-3954      | *1401-140202, 1403-1413, 1415, 1416, 3814 <sup>w</sup> , 670101                                                                                                                                                                                                                                                       |
| <b>24</b> <sup>7</sup>      | 185 bp      | 1070 bp       | *39010101, 39010102L, 390103-390108, 390110, 390201, 3903, 3905-3909, 3911, 3914, 3915, 3918, 391902, 3922, 3924-3930, 3931 <sup>w</sup> , 3932-3944, 3946-3948, 3950-3954 | *1401, 1407N, 1408, 1410, 1412, 1414, 380101-3803, 3807-3820, 670101                                                                                                                                                                                                                                                  |
| <b>25</b>                   | 235 bp      | 1070 bp       | *39010102L                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                       |
| <b>26</b> <sup>8</sup>      | 265 bp      | <b>800 bp</b> |                                                                                                                                                                            | *1401-1404, 1407N, 1409, 1411, 1412, 1414-1416, 1844,<br><b>Cw*0130</b>                                                                                                                                                                                                                                               |
| <b>27</b> <sup>5,18</sup>   | 70, 195 bp  | <b>800 bp</b> | *3932, 3938Q, 3948                                                                                                                                                         | *1315, 3596, 511301, 511302, 5119, 5162, 5214                                                                                                                                                                                                                                                                         |
| <b>28</b> <sup>8</sup>      | 180 bp      | 1070 bp       | *3932, 3933, 3940N                                                                                                                                                         | *1303, 1558, 1573, 9533, 350301, 350302, 3506, 3513, 3536, 3538, 3555, 3556, 3559, 3570, 3574, 3575, 3584, 3585, 3598, 4071, 4410, 4611, 511301, 511302, 5115, 5162, 5214, 5304, 5403, 560101-5602, 5604, 5607, 5608, 5611, 5613, 5614, 5616, 5617, 5619N, 5620, 5622, 5624-5626, 5904, 8201, 8202,<br><b>Cw*1515</b> |

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|                            |               |               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------|---------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>29</b>                  | 245 bp        | <b>800 bp</b> | *390601, 390602,<br>3934, 3950 | *0778, 0784, 0809, 130201-<br>130206, 1308Q, 1309, 1314-<br>1316, 1318, 1319, 1327,<br>1330, 1542, 1583, 2714,<br>3560, 40060101-400602,<br>4044, 4053, 4070, 4075,<br>4083, 4086, 4093, 4095,<br>4096, 4101, 4105-4107,<br>4109, 4112, 4204, 4508,<br>4510, 4618, 4907, 5110,<br>5116, 5121, 5131, 5134,<br>5136, 5182, 5208, 5401,<br>5402, 5404, 5405N, 5407,<br>5408N, 5410-5419, 550101-<br>5503, 5505, 5507, 5509-<br>5513, 5515-5538, 5623,<br>5901-5903, 5905, 7301                                                                                                                                                                                                                                                                                                                           |
| <b>30<sup>5,8,19</sup></b> | 60, 180<br>bp | <b>800 bp</b> | *3918, 3935, 3952              | *1569                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>31<sup>8</sup></b>      | 155 bp        | <b>800 bp</b> | *3930, 3934, 3943              | *0748, 0813, 0825, 130101-<br>1304, 1306-1315, 1317,<br>1319, 1321-1323, 1325-<br>1330, 1505, 1520, 1531,<br>1552, 1555, 1586, 1591,<br>9507, 9514, 9523, 9524,<br>9551, 9555, 180101-1812,<br>1814, 1817N, 1818, 1820,<br>1822-1829, 1831-1845,<br>2701-2703, 270502-270512,<br>2707-2709, 2711-2714,<br>2716, 2717, 2719, 2723,<br>2726-2739, 2741-2744,<br>2746, 2748-2753, 2755-<br>2759N, 350101-3507,<br>350901-3510, 351201-3513,<br>3515-3517, 3519-352002,<br>3522-3534, 3536, 3537,<br>3539-3542, 3546-3557,<br>3559, 3560, 3563-3565Q,<br>356801-3572, 3574-3578,<br>3581-3585, 3588-3595,<br>3597, 3598, 3702, 400101-<br>4004, 40060101-401403,<br>4018-4022N, 4024, 4025,<br>4027, 4029-4031, 4033-<br>4040, 4042-4050, 4052-<br>4094, 4096, 4097, 440301-<br>440308, 4407, 4410, 4413, |

|           |        |               |                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|--------|---------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |        |               |                                                                                                   | 4426, 4430-4432, 4436-4440, 4443, 4445-4447, 4450, 4454, 4457, 4460, 4461N, 446401-4465, 4469, 4477, 4481, 4482, 4485, 4606, 4611, 461301, 461302, 4618, 4621, 47010101-4705, 480101-4804, 4806, 4807, 4809-4814, 4816-4818, 4820, 510901-5110, 5115, 5131, 5140, 5142, 5173, 5181, 5203, 5210, 530101-5305, 5307, 5309, 5310, 5312-5315, 5317-5319, 5401-5405N, 5407-5409, 5411-5419, 550201-550205, 5504, 5507, 5508, 5510, 5512, 5513, 5516, 5518, 5519, 5522, 5523, 5526, 5527, 5530, 5532, 5534, 5535, 560101-5602, 5604, 5607-5612, 5614-5620, 5622-5624, 5626, 570101-570105, 570301, 570302, 5706-5708, 5710, 5711, 5714-5718, 5720, 5721, 5723, 5725, 5726, 580101-5802, 5804, 5807, 5809-5818, 5821, 5823, 5824, 5901-5905, 7804, 8101-8104N |
| <b>32</b> | 230 bp | <b>800 bp</b> | *3903 <sup>w</sup> , 3914 <sup>w</sup> , 3924, 3929 <sup>w</sup> , 3937 <sup>w</sup> , 3941, 3942 | *3535, 3819 <sup>w</sup> , 3820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

<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\*39 SSP subtypings.

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 bp or more. Size differences shorter than 20 bp are not given. For high resolution SSP kits the length of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

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

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

<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\*39 subtyping.

In addition, wells number 3, 5, 6, 10, 12, 13, 15 to 18, 20 to 23, 26, 27, 29 to 32 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 many HLA-B alleles complete 4<sup>th</sup> 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 4<sup>th</sup> exon are conserved within allelic groups.

The B\*3910 and B\*670102 alleles will give rise to identical amplification patterns with the HLA-B\*39 subtyping kit. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B\*67 kits.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B\*39 alleles will be amplified by primer mixes 1 to 3, 5, 6, 8, 10 to 12, 14, 18 to 21, 23, 24, 26 to 32. In addition, the Cw\*0130 allele will be amplified by primer mix 26 and the Cw\*1515 allele will be amplified by primer mix 28.

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

<sup>6</sup>The primer pairs in primer mix 7, 9, 13 and 22 may give rise to a primer oligomer artifact.

<sup>7</sup>Primer solutions 15, 20, 23 and 24 may yield less specific PCR product than the other HLA-B\*39 primer mixes, in primer mix 15 notably for the B\*3931 allele.

<sup>8</sup>Primer mixes 11, 16, 26, 28, 30 and 31 have a tendency of giving rise to non-specific amplifications.

<sup>9</sup>Primer mix 4: Specific PCR fragment of 145 bp in the B\*3926 allele. Specific PCR fragment of 385 bp in the B\*3951 allele.

<sup>10</sup>Primer solution 7: Specific PCR fragment of 165 bp in the B\*3917 allele. Specific PCR fragment of 220 bp in the B\*3903, B\*3914, B\*3924, B\*3929 and B\*3937 and in the B\*3817 alleles.

<sup>11</sup>Primer solution 8: Specific PCR fragment of 180 bp in the B\*3904, B\*3947 and B\*3950 and in the B\*1411, B\*3526, B\*4036, B\*4077, B\*4086 and B\*4807 alleles. Specific PCR fragment of 405 bp in the B\*3946 allele.

<sup>12</sup>Primer solution 10: Specific PCR fragment of 105 bp in the B\*391901-391902 and in the B\*1833, B\*3582, B\*3585, B\*5122 and B\*7803 alleles. Specific PCR fragment of 165 bp in the B\*3907 and in the B\*1569 and B\*3535, alleles.

<sup>13</sup>Primer mix 13: Specific PCR fragment of 85 bp in the B\*3923, B\*3927 and B\*3944 alleles. Specific PCR fragment of 385 bp in the B\*3951 allele.

<sup>14</sup>Primer mix 15: Specific PCR fragment of 145 bp in the B\*3954 allele. Specific PCR fragments of 190 bp in the B\*3912, B\*3931 and B\*3938Q alleles.

<sup>15</sup>Primer solution 16: Specific PCR fragment of 165 bp in the B\*3914 and B\*3929 alleles. Specific PCR fragment of 220 bp in the B\*3909 and B\*3916 alleles.

<sup>16</sup>Primer solution 20: Specific PCR fragment of 100 bp in the B\*390105, B\*3918 and B\*3927 and in the B\*1569 alleles. Specific PCR fragment of 215 bp in the B\*3909 allele.

<sup>17</sup>Primer solution 22: Specific PCR fragment of 150 bp in the B\*3945 allele. Specific PCR fragment of 225 bp in the B\*3928 allele.

<sup>18</sup>Primer mix 27: Specific PCR fragment of 70 bp in the B\*5119 alleles. Specific PCR fragment of 195 bp in the B\*1315, B\*3596, B\*511301-511302, B\*5162 and B\*5214 alleles. Specific PCR fragments of 70 and 195 bp in the B\*3932, B\*3938Q and B\*3948 alleles (please observe that both specific PCR fragments may not be obtained).

<sup>19</sup>Primer mix 30: Specific PCR fragment of 60 bp in the B\*3918 and B\*3935 and in the B\*1569 alleles. Specific PCR fragment of 180 bp in the B\*3952 allele.

‘w’, might be weakly amplified.

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

| INTERPRETATION TABLE                                 |                   |         |         |      |         |         |      |         |         |         |         |         |      |      |         |         |
|------------------------------------------------------|-------------------|---------|---------|------|---------|---------|------|---------|---------|---------|---------|---------|------|------|---------|---------|
| HLA-B*39 SSP subtyping                               |                   |         |         |      |         |         |      |         |         |         |         |         |      |      |         |         |
| Amplification patterns of the B*3901 to 3955 alleles |                   |         |         |      |         |         |      |         |         |         |         |         |      |      |         |         |
|                                                      | Well <sup>5</sup> |         |         |      |         |         |      |         |         |         |         |         |      |      |         |         |
|                                                      | 1                 | 2       | 3       | 4    | 5       | 6       | 7    | 8       | 9       | 10      | 11      | 12      | 13   | 14   | 15      | 16      |
| Length of spec. PCR product(s)                       | 230               | 170     | 200     | 145  | 105     | 170     | 165  | 180     | 230     | 105     | 170     | 175     | 85   | 80   | 145     | 165     |
| Length of int. pos. control <sup>1</sup>             | 800               | 1070    | 800     | 1070 | 800     | 800     | 1070 | 1070    | 1070    | 800     | 1070    | 800     | 800  | 1070 | 800     | 800     |
| 5'-primer(s) <sup>2</sup>                            | 355               | 142     | 142     | 246  | 246     | 142     | 363  | 106     | 357     | 206     | 419     | 412     | 246  | 272  | 97      | 360     |
|                                                      | 5' -CCC           | -TCT    | -TCT    | -gAA | -gAA    | -TCT    | -AgC | -CCA    | -Tgg    | -gAC    | -gTT    | -ATg    | -gAA | -CTA | -TCg    | -CAC    |
|                                                      | 355               |         | 419     | 419  | 246     |         | 420  | 420     |         | 419     |         |         | 503  |      | 97      | 368     |
|                                                      | 5' -CTC           | 3' -gTC | 5' -gTC | -gTT | -gAA    | 3' -TTA | -TTC | 3' -gTC | 5' -gTC | 3' -CCg | 3' -TCC | -gTC    |      |      |         |         |
|                                                      |                   |         |         |      |         |         |      | 646     |         |         |         |         |      |      | 141     | 419     |
|                                                      |                   |         |         |      |         |         |      | 5' -ACg | 3' -ATg |         |         |         |      |      | 419     |         |
|                                                      |                   |         |         |      |         |         |      |         |         |         |         |         |      |      | 5' -gTT | 3' -gTA |
| 3'-primer(s) <sup>3</sup>                            | 544               | 272     | 292     | 344  | 311     | 272     | 544  | 246     | 544     | 272     | 539     | 544     | 299  | 311  | 246     | 544     |
|                                                      | 5' -ggT           | -TgC    | -gTA    | -ACg | -ggT    | -Tgg    | -ggT | -TAT    | -ggT    | -TgC    | -TCC    | -ggT    | -TCA | -ggT | -TAT    | -ggT    |
|                                                      |                   |         | 583     | 524  |         |         |      | 559     |         | 544     | 539     |         | 344  |      | 563     |         |
|                                                      |                   |         | 5' -gTg | -CAA | 3' -CTC | 3' -ggT | -TCC | 3' -ACg | 3' -CgA | 3' -gTg | 3' -ACT | 3' -ggT |      |      |         |         |
|                                                      |                   |         |         |      |         |         |      | 916     |         |         | 564     |         | 544  |      |         |         |
|                                                      |                   |         |         |      |         |         |      | 5' -gAC | 3' -ACT | 3' -ggT |         |         |      |      |         |         |
|                                                      |                   |         |         |      |         |         |      |         |         |         | 565     |         |      |      |         |         |
|                                                      |                   |         |         |      |         |         |      |         |         |         | 5' -CAT | 3' -gTg |      |      |         |         |
| Well No.                                             | 1                 | 2       | 3       | 4    | 5       | 6       | 7    | 8       | 9       | 10      | 11      | 12      | 13   | 14   | 15      | 16      |
| HLA-B allele <sup>4</sup>                            |                   |         |         |      |         |         |      |         |         |         |         |         |      |      |         |         |
| *39010101, 390103, 390106-390108, 390110             | 1                 | 2       |         |      | 5       |         |      |         |         |         |         |         |      |      |         |         |
| *39010102L                                           | 1                 | 2       |         |      | 5       |         |      |         |         |         |         |         |      |      |         |         |
| *390104                                              | 1                 | 2       |         |      | 5       |         |      |         |         |         |         |         |      |      |         |         |
| *390105                                              | 1                 | 2       |         |      | 5       |         |      |         |         |         |         |         |      |      |         |         |
| *390109                                              | 1                 | 2       |         |      |         |         |      |         |         |         |         |         |      |      |         |         |
| *390201                                              | 1                 |         |         |      | 5       | 6       |      |         |         |         |         |         |      |      |         |         |
| *390202                                              | 1                 |         |         |      |         | 6       |      |         |         |         |         |         |      |      |         |         |
| *3903                                                | 1                 | 2       |         |      | 5       |         | 7    |         |         |         |         |         |      |      |         |         |
| *3904                                                | 1                 | 2       |         |      | 5       |         |      | 8       |         |         |         |         |      |      |         |         |
| *3905                                                | 1                 | 2       | 3       |      | 5       |         |      |         |         |         |         |         |      |      |         |         |
| *390601, 390602                                      |                   | 2       |         |      | 5       |         |      |         | 9       |         |         |         |      |      |         |         |
| *3907                                                | 1                 | 2       | 3       |      | 5       |         |      |         |         | 10      |         | 12      |      |      |         |         |
| *3908                                                | 1                 |         | 3       |      | 5       | 6       |      |         |         |         | 11      |         |      |      |         |         |
| *3909                                                | 1                 | 2       |         |      | 5       |         |      |         |         |         |         |         |      |      |         | 16      |
| Well No.                                             | 1                 | 2       | 3       | 4    | 5       | 6       | 7    | 8       | 9       | 10      | 11      | 12      | 13   | 14   | 15      | 16      |

| INTERPRETATION TABLE                                 |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
|------------------------------------------------------|------|--------|--------|------|--------|------|--------|------|--------|--------|------|--------|------|-------------------|--------|--------------------------------------------------------------------------------------------------------------|---------------------------|
| HLA-B*39 SSP subtyping                               |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
| Amplification patterns of the B*3901 to 3955 alleles |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
| Well <sup>5</sup>                                    |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
| 17                                                   | 18   | 19     | 20     | 21   | 22     | 23   | 24     | 25   | 26     | 27     | 28   | 29     | 30   | 31                | 32     | Length of spec.<br>PCR product(s)<br>Length of int<br>nos. control <sup>1</sup><br>5'-primer(s) <sup>2</sup> |                           |
| 180                                                  | 160  | 385    | 100    | 220  | 150    | 85   | 185    | 235  | 265    | 70     | 180  | 245    | 60   | 155               | 230    |                                                                                                              | 3'-primer(s) <sup>3</sup> |
|                                                      |      |        | 215    |      | 225    |      |        |      |        | 195    |      |        | 180  |                   |        |                                                                                                              |                           |
| 800                                                  | 800  | 1070   | 800    | 800  | 800    | 800  | 1070   | 1070 | 800    | 800    | 1070 | 800    | 800  | 800               | 800    |                                                                                                              |                           |
| 407                                                  | 142  | 44     | 246    | 363  | 142    | 246  | 103    | -149 | 361    | 419    | 419  | 357    | 142  | 544               | 112    |                                                                                                              |                           |
| -gg                                                  | -TCT | -ggC   | -gAA   | -Agg | -TCT   | -gAA | -CCT   | -ggg | -AgT   | -gTT   | -gTT | -Tgg   | -TCT | -gAg              | -CCT   | 3'                                                                                                           |                           |
|                                                      |      |        | 368    |      | 362    |      |        |      |        | 544    |      |        | 527  |                   | 355    |                                                                                                              |                           |
| 3'                                                   |      |        | 5'-gTC | 3'   | 5'-gAC | 3'   |        |      | 5'-gAA | 3'     |      | 5'-TgA | 3'   | 5'-TCA            | 3'     |                                                                                                              |                           |
|                                                      |      |        | 486    |      |        |      |        |      |        |        |      |        |      |                   | 365    |                                                                                                              |                           |
| 3'                                                   |      |        | 5'-ACg | 3'   |        |      |        |      |        |        |      |        |      |                   | 5'-CAC | 3'                                                                                                           |                           |
|                                                      |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
|                                                      |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
| 544                                                  | 259  | 259    | 299    | 544  | 250    | 292  | 246    | 44   | 583    | 563    | 559  | 559    | 280  | 3 <sup>rd</sup> I | 311    |                                                                                                              |                           |
| -ggT                                                 | -CTC | -gTT   | -TCA   | -ggT | -CCg   | -gTC | -TAT   | -CCg | -gTg   | -CgA   | -CAg | -CgT   | -gTC | -TAT              | -ggT   | 3'                                                                                                           |                           |
|                                                      |      | 259    | 544    |      | 544    |      | 246    |      |        | 583    | 564  | 559    | 544  |                   | 544    |                                                                                                              |                           |
|                                                      |      | 5'-gTT | -ggT   | 3'   | 5'-ggT | 3'   | 5'-TAT | 3'   |        | 5'-gTg | -ACT | -CTC   | -ggT | 3'                | 5'-ggT | 3'                                                                                                           |                           |
|                                                      |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
|                                                      |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
|                                                      |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
|                                                      |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
|                                                      |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        |                                                                                                              |                           |
| 17                                                   | 18   | 19     | 20     | 21   | 22     | 23   | 24     | 25   | 26     | 27     | 28   | 29     | 30   | 31                | 32     | Well No.                                                                                                     |                           |
|                                                      |      |        |        |      |        |      |        |      |        |        |      |        |      |                   |        | HLA-B allele <sup>4</sup>                                                                                    |                           |
|                                                      |      | 19     |        | 21   |        | 23   | 24     |      |        |        |      |        |      |                   |        | *39010101, 390103,<br>390106-390108, 390110                                                                  |                           |
|                                                      |      | 19     |        | 21   |        | 23   | 24     | 25   |        |        |      |        |      |                   |        | *39010102L                                                                                                   |                           |
|                                                      |      | 19     |        | 21   |        |      | 24     |      |        |        |      |        |      |                   |        | *390104                                                                                                      |                           |
|                                                      |      | 19     | 20     | 21   |        | 23   | 24     |      |        |        |      |        |      |                   |        | *390105                                                                                                      |                           |
|                                                      |      | 19     |        | 21   |        |      |        |      |        |        |      |        |      |                   |        | *390109                                                                                                      |                           |
|                                                      | 18   |        |        | 21   |        | 23   | 24     |      |        |        |      |        |      |                   |        | *390201                                                                                                      |                           |
|                                                      | 18   |        |        | 21   |        |      |        |      |        |        |      |        |      |                   |        | *390202                                                                                                      |                           |
|                                                      |      | 19     |        |      |        | 23   | 24     |      |        |        |      |        |      |                   | W      | *3903                                                                                                        |                           |
|                                                      |      | 19     |        | 21   |        | 23   |        |      |        |        |      |        |      |                   |        | *3904                                                                                                        |                           |
|                                                      |      | 19     |        | 21   |        |      | 24     |      |        |        |      |        |      |                   |        | *3905                                                                                                        |                           |
|                                                      |      | 19     |        |      |        | 23   | 24     |      |        |        |      | 29     |      |                   |        | *390601, 390602                                                                                              |                           |
|                                                      |      | 19     |        | 21   |        |      | 24     |      |        |        |      |        |      |                   |        | *3907                                                                                                        |                           |
|                                                      | 18   |        |        | 21   |        |      | 24     |      |        |        |      |        |      |                   |        | *3908                                                                                                        |                           |
|                                                      |      | 19     | 20     | 21   |        | 23   | 24     |      |        |        |      |        |      |                   |        | *3909                                                                                                        |                           |
| 17                                                   | 18   | 19     | 20     | 21   | 22     | 23   | 24     | 25   | 26     | 27     | 28   | 29     | 30   | 31                | 32     | Well No.                                                                                                     |                           |

Lot No.: **67G**

Lot-specific information

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| Length of spec.            | 230 | 170 | 200 | 145 | 105 | 170 | 165 | 180 | 230 | 105 | 170 | 175 | 85  | 80 | 145 | 165 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| PCR product(s)             |     |     |     | 385 |     |     | 220 | 405 |     | 165 |     |     | 385 |    | 190 | 220 |
| Well No.                   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |
| *3910, 670102 <sup>6</sup> | 1   |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *3911                      | 1   | 2   | 3   |     | 5   |     |     |     |     |     | 11  |     |     |    |     |     |
| *3912                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    | 15  |     |
| *391301, 391302            | 1   |     | 3   |     |     | 6   |     |     |     |     |     |     |     |    |     |     |
| *3914                      | 1   | 2   |     |     | 5   |     | 7   |     |     |     |     |     |     |    |     | 16  |
| *3915                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     | 12  |     |    |     |     |
| *3916                      | 1   |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     | 16  |
| *3917                      | 1   |     |     |     |     |     | 7   |     |     |     |     |     |     | 14 |     |     |
| *3918                      | 1   | 2   |     |     | 5   |     |     |     |     |     | 11  |     |     |    |     |     |
| *391901                    | 1   | 2   |     |     |     |     |     |     |     | 10  |     |     |     |    |     |     |
| *391902                    | 1   | 2   |     |     | 5   |     |     |     |     | 10  |     |     |     |    |     |     |
| *3920                      | 1   |     | 3   |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *3922                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3923                      | 1   |     |     |     |     | 6   |     |     |     |     |     |     |     | 13 |     |     |
| *3924                      | 1   | 2   |     |     | 5   |     | 7   |     |     |     |     |     |     |    |     |     |
| *3925N                     | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3926                      | 1   | 2   |     | 4   | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3927                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     | 13 |     |     |
| *3928                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3929                      | 1   | 2   |     |     | 5   |     | 7   |     |     |     |     | 12  |     |    |     | 16  |
| *3930                      |     | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3931                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    | 15  |     |
| *3932                      |     | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3933                      |     | 2   |     |     | 5   |     |     |     |     |     | 11  |     |     |    |     |     |
| *3934                      |     | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3935                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3936                      |     | 2   |     |     | 5   |     |     |     |     |     | 11  |     |     |    |     |     |
| *3937                      | 1   | 2   | 3   |     | 5   |     | 7   |     |     |     |     |     |     |    |     |     |
| *3938Q                     | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    | 15  |     |
| *3939                      | 1   |     |     |     | 5   | 6   |     |     |     |     |     |     |     |    |     |     |
| *3940N                     | 1   | 2   |     |     | 5   |     |     |     |     |     | 11  |     |     |    |     |     |
| *3941                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3942                      |     | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3943                      |     | 2   | 3   |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3944                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     | 13 |     |     |
| *3945                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3946                      | 1   | 2   |     |     | 5   |     |     | 8   |     |     |     |     |     |    |     |     |
| *3947                      |     | 2   |     |     | 5   |     |     | 8   |     |     |     |     |     |    |     |     |
| *3948                      | 1   | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3949                      | 1   |     | 3   |     |     | 6   |     |     |     |     |     | 12  |     |    |     |     |
| Well No.                   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |

Lot No.: **67G**

Lot-specific information

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| 180 | 160 | 385 | 100 | 220 | 150 | 85 | 185 | 235 | 265 | 70  | 180 | 245 | 60  | 155 | 230 | Length of spec.            |
|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------------|
|     |     |     | 215 |     | 225 |    |     |     |     | 195 |     |     | 180 |     |     | PCR product(s)             |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                   |
|     |     | 19  |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *3910, 670102 <sup>6</sup> |
|     |     | 19  |     | 21  |     |    | 24  |     |     |     |     |     |     |     |     | *3911                      |
|     |     | 19  |     | 21  |     | 23 |     |     |     |     |     |     |     |     |     | *3912                      |
|     | 18  |     |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *391301, 391302            |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     |     |     |     | w   | *3914                      |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3915                      |
|     |     | 19  |     |     |     |    |     |     |     |     |     |     |     |     |     | *3916                      |
|     |     | 19  |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *3917                      |
|     |     | 19  | 20  | 21  |     | 23 | 24  |     |     |     |     |     | 30  |     |     | *3918                      |
|     |     | 19  |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *391901                    |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *391902                    |
|     |     | 19  |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *3920                      |
|     | 18  |     |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3922                      |
|     | 18  |     |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *3923                      |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     |     |     |     | 32  | *3924                      |
| 17  |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3925N                     |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3926                      |
|     |     | 19  | 20  | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3927                      |
|     |     | 19  |     |     | 22  | 23 | 24  |     |     |     |     |     |     |     |     | *3928                      |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     |     |     |     | w   | *3929                      |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     |     |     | 31  |     | *3930                      |
|     |     | 19  |     | 21  |     | 23 | w   |     |     |     |     |     |     |     |     | *3931                      |
|     |     | 19  |     |     |     | 23 | 24  |     |     | 27  | 28  |     |     |     |     | *3932                      |
|     |     | 19  |     |     |     | 23 | 24  |     |     | 28  |     |     |     |     |     | *3933                      |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     | 29  |     | 31  |     | *3934                      |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     | 30  |     |     | *3935                      |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     |     |     |     |     | *3936                      |
|     |     | 19  |     |     |     | 24 |     |     |     |     |     |     |     |     | w   | *3937                      |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     | 27  |     |     |     |     |     | *3938Q                     |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3939                      |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     | 28  |     |     |     |     | *3940N                     |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     | 32  | *3941                      |
|     |     | 19  |     | w   |     | 23 | 24  |     |     |     |     |     |     |     | 32  | *3942                      |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     |     |     | 31  |     | *3943                      |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3944                      |
|     |     | 19  |     | 21  | 22  | 23 |     |     |     |     |     |     |     |     |     | *3945                      |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3946                      |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     |     |     |     |     | *3947                      |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     | 27  |     |     |     |     |     | *3948                      |
|     | 18  |     |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *3949                      |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                   |

Lot No.: **67G**

Lot-specific information

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| Length of spec.                                                                                                                                                                                                                     | 230 | 170 | 200 | 145 | 105 | 170 | 165 | 180 | 230 | 105 | 170 | 175 | 85  | 80 | 145 | 165 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| PCR product(s)                                                                                                                                                                                                                      |     |     |     | 385 |     |     | 220 | 405 |     | 165 |     |     | 385 |    | 190 | 220 |
| Well No.                                                                                                                                                                                                                            | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |
| *3950                                                                                                                                                                                                                               |     | 2   |     |     | 5   |     |     | 8   |     |     |     |     |     |    |     |     |
| *3951                                                                                                                                                                                                                               | 1   | 2   |     | 4   | 5   |     |     |     |     |     |     |     | 13  |    |     |     |
| *3952                                                                                                                                                                                                                               | 1   |     |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *3953                                                                                                                                                                                                                               | 1   | 2   |     |     | 5   |     |     |     |     |     | 11  |     |     |    |     |     |
| *3954                                                                                                                                                                                                                               | 1   |     |     |     | 5   |     |     |     |     |     |     |     |     |    | 15  |     |
| *070201-0707, 0709, 0711, 0712, 0714, 0715, 0717-0726, 0728-0731, 0733-0735, 0739-0747, 0749N, 0751-0753, 0755-0764, 0766-0768, 0770-0774, 0776, 0777, 0779, 0780, 0782, 0786-0790, 0792-0799, 420101-4202, 420501-4210, 4212, 4213 |     |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *0708, 0710, 0732, 0736, 0781, 0783, 080101-0802, 0805-0808N, 0811-081203, 0814-0816, 0818-0822, 0824, 0826-0837, 0839-0847                                                                                                         |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *0716, 0737, 0775, 0791                                                                                                                                                                                                             |     |     | 3   |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *0727, 0750                                                                                                                                                                                                                         |     |     | 3   |     |     | 6   |     |     |     |     |     |     |     |    |     |     |
| *0738, 0803, 0823                                                                                                                                                                                                                   |     |     | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *0748, 8102                                                                                                                                                                                                                         |     |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *0754, 0765, 151101-151104, 1576, 9501, 9543, 9548, 9552, 4506, 5406, 5514, 5603, 560501-5606, 8301                                                                                                                                 |     |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *0769, 0785                                                                                                                                                                                                                         |     | 2   |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *0778                                                                                                                                                                                                                               |     |     |     |     |     |     |     |     |     |     | 11  |     |     | 14 |     |     |
| *0784, 4204                                                                                                                                                                                                                         |     |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *0804                                                                                                                                                                                                                               |     |     |     |     |     | 6   |     |     |     |     |     |     |     |    |     |     |
| *0809, 7301                                                                                                                                                                                                                         |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *0813, 0825                                                                                                                                                                                                                         |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *0817, 1561                                                                                                                                                                                                                         |     |     |     |     |     | 6   |     |     |     |     |     |     |     |    |     |     |
| *0838                                                                                                                                                                                                                               |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| Well No.                                                                                                                                                                                                                            | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |

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Lot-specific information

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| 180 | 160 | 385 | 100 | 220 | 150 | 85 | 185 | 235 | 265 | 70  | 180 | 245 | 60  | 155 | 230 | Length of spec.                                                                                                                                                                                                                     |
|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |     |     | 215 |     | 225 |    |     |     |     | 195 |     |     | 180 |     |     | PCR product(s)                                                                                                                                                                                                                      |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                                                                                                                                            |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     | 29  |     |     |     | *3950                                                                                                                                                                                                                               |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3951                                                                                                                                                                                                                               |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     | 30  |     |     | *3952                                                                                                                                                                                                                               |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3953                                                                                                                                                                                                                               |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *3954                                                                                                                                                                                                                               |
| 19  |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     | *070201-0707, 0709, 0711, 0712, 0714, 0715, 0717-0726, 0728-0731, 0733-0735, 0739-0747, 0749N, 0751-0753, 0755-0764, 0766-0768, 0770-0774, 0776, 0777, 0779, 0780, 0782, 0786-0790, 0792-0799, 420101-4202, 420501-4210, 4212, 4213 |
|     |     | 19  |     |     |     |    |     |     |     |     |     |     |     |     |     | *0708, 0710, 0732, 0736, 0781, 0783, 080101-0802, 0805-0808N, 0811-081203, 0814-0816, 0818-0822, 0824, 0826-0837, 0839-0847                                                                                                         |
|     |     | 19  |     |     |     |    |     |     |     |     |     |     |     |     |     | *0716, 0737, 0775, 0791                                                                                                                                                                                                             |
|     |     | 19  |     |     |     |    |     |     |     |     |     |     |     |     |     | *0727, 0750                                                                                                                                                                                                                         |
|     |     | 19  |     |     |     |    |     |     |     |     |     |     |     |     |     | *0738, 0803, 0823                                                                                                                                                                                                                   |
|     |     | 19  |     |     |     |    |     |     |     |     |     |     |     | 31  |     | *0748, 8102                                                                                                                                                                                                                         |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     | *0754, 0765, 151101-151104, 1576, 9501, 9543, 9548, 9552, 4506, 5406, 5514, 5603, 560501-5606, 8301                                                                                                                                 |
|     |     | 19  |     |     |     |    |     |     |     |     |     |     |     |     |     | *0769, 0785                                                                                                                                                                                                                         |
|     |     | 19  |     |     |     |    |     |     |     |     |     | 29  |     |     |     | *0778                                                                                                                                                                                                                               |
|     |     | 19  |     |     |     |    |     |     |     |     |     | 29  |     |     |     | *0784, 4204                                                                                                                                                                                                                         |
|     |     | 19  |     |     |     |    |     |     |     |     |     |     |     |     |     | *0804                                                                                                                                                                                                                               |
|     |     | 19  |     |     |     |    |     |     |     |     |     | 29  |     |     |     | *0809, 7301                                                                                                                                                                                                                         |
| 19  |     |     |     |     |     |    |     |     |     |     |     | 31  |     |     |     | *0813, 0825                                                                                                                                                                                                                         |
|     | 18  |     |     |     |     |    |     |     |     |     |     |     |     |     |     | *0817, 1561                                                                                                                                                                                                                         |
|     | 18  |     |     |     |     |    |     |     |     |     |     |     |     |     |     | *0838                                                                                                                                                                                                                               |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                                                                                                                                            |

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| Length of spec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 230 | 170 | 200 | 145 | 105 | 170 | 165 | 180 | 230 | 105 | 170 | 175 | 85  | 80 | 145 | 165 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| PCR product(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |     |     | 385 |     |     | 220 | 405 |     | 165 |     |     | 385 |    | 190 | 220 |
| Well No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |
| *130101, 130102, 1304,<br>1306, 1307N, 1310-1313,<br>1317, 1321-1323, 1325,<br>1326, 1328, 1329, 1505,<br>1520, 1531, 1555, 1586,<br>9507, 9555, 2701-2703,<br>270502-270512, 2707-<br>2709, 2711-2713, 2716,<br>2717, 2719, 2723, 2726-<br>2739, 2741-2744, 2746,<br>2748-2753, 2755-2759N,<br>350101-350203, 350401-<br>3505, 3507, 350901-3510,<br>351201, 351202, 3515-<br>3517, 3519-352002, 3522,<br>3523, 3527-3534, 3537,<br>3539-3542, 3546-3554,<br>3557, 3563-3565Q,<br>356801-3569, 3571, 3572,<br>3577, 3578, 3581, 3583,<br>3588-3595, 3597, 400101-<br>4004, 4007-4011, 4013-<br>401403, 4018-4022N,<br>4024, 4027, 4029-4031,<br>4033-4035, 4037-4040,<br>4042, 4043, |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| Well No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |



Lot No.: **67G**

Lot-specific information

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

| 180 | 160 | 385 | 100 | 220 | 150 | 85 | 185 | 235 | 265 | 70  | 180 | 245 | 60  | 155 | 230 | Length of spec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |     |     | 215 |     | 225 |    |     |     |     | 195 |     |     | 180 |     |     | PCR product(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     | 31  |     | *130101, 130102, 1304,<br>1306, 1307N, 1310-1313,<br>1317, 1321-1323, 1325,<br>1326, 1328, 1329, 1505,<br>1520, 1531, 1555, 1586,<br>9507, 9555, 2701-2703,<br>270502-270512, 2707-<br>2709, 2711-2713, 2716,<br>2717, 2719, 2723, 2726-<br>2739, 2741-2744, 2746,<br>2748-2753, 2755-2759N,<br>350101-350203, 350401-<br>3505, 3507, 350901-3510,<br>351201, 351202, 3515-<br>3517, 3519-352002, 3522,<br>3523, 3527-3534, 3537,<br>3539-3542, 3546-3554,<br>3557, 3563-3565Q,<br>356801-3569, 3571, 3572,<br>3577, 3578, 3581, 3583,<br>3588-3595, 3597, 400101-<br>4004, 4007-4011, 4013-<br>401403, 4018-4022N,<br>4024, 4027, 4029-4031,<br>4033-4035, 4037-4040,<br>4042, 4043, |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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

| Length of spec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 230 | 170 | 200 | 145 | 105 | 170 | 165 | 180 | 230 | 105 | 170 | 175 | 85  | 80 | 145 | 165 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| PCR product(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |     |     | 385 |     |     | 220 | 405 |     | 165 |     |     | 385 |    | 190 | 220 |
| Well No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |
| 4045-4050, 4052, 4054-4060, 4062-4067, 4069, 407201-4074, 4076, 4078-4082, 4084, 4085, 4087-4092, 4094, 4097, 440301-440308, 4407, 4413, 4426, 4430-4432, 4436-4440, 4443, 4445-4447, 4450, 4454, 4457, 4460, 4461N, 446401-4465, 4469, 4477, 4481, 4482, 4485, 4606, 461301, 461302, 4621, 47010101-4705, 510901, 510902, 5140, 5142, 5173, 5181, 5203, 5210, 530101-530105, 5303, 5305, 5307, 5309, 5310, 5312-5315, 5317-5319, 570101-570105, 570301, 570302, 5706-5708, 5710, 5711, 5715-5718, 5720, 5721, 5723, 5725, 5726, 580101-5802, 5804, 5807, 5810N, 5811, 5813-5818, 5821, 5823, 5824, 7804 |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *130201-130206, 1308Q, 1309, 1314, 1319, 1327, 1330, 2714, 3560, 40060101-400602, 4044, 4053, 4070, 4075, 4083, 4093, 4096, 4618, 5110, 5131, 5412, 5518, 5534, 5901-5903, 5905                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *1303, 350301, 350302, 3506, 3513, 3536, 3555, 3556, 3559, 3570, 3574, 3575, 3584, 3598, 4071, 4410, 4611, 5115, 5304, 5607, 5608, 5614, 5904                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| Well No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |

Lot No.: **67G**

Lot-specific information

www.olerup-ssp.com

| 180 | 160 | 385 | 100 | 220 | 150 | 85 | 185 | 235 | 265 | 70  | 180 | 245 | 60  | 155 | 230 | Length of spec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |     |     | 215 |     | 225 |    |     |     |     | 195 |     |     | 180 |     |     | PCR product(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|     |     |     |     |     |     |    |     |     |     |     |     | 31  |     |     |     | 4045-4050, 4052, 4054-4060, 4062-4067, 4069, 407201-4074, 4076, 4078-4082, 4084, 4085, 4087-4092, 4094, 4097, 440301-440308, 4407, 4413, 4426, 4430-4432, 4436-4440, 4443, 4445-4447, 4450, 4454, 4457, 4460, 4461N, 446401-4465, 4469, 4477, 4481, 4482, 4485, 4606, 461301, 461302, 4621, 47010101-4705, 510901, 510902, 5140, 5142, 5173, 5181, 5203, 5210, 530101-530105, 5303, 5305, 5307, 5309, 5310, 5312-5315, 5317-5319, 570101-570105, 570301, 570302, 5706-5708, 5710, 5711, 5715-5718, 5720, 5721, 5723, 5725, 5726, 580101-5802, 5804, 5807, 5810N, 5811, 5813-5818, 5821, 5823, 5824, 7804 |
|     |     |     |     |     |     |    |     |     |     |     |     | 29  |     | 31  |     | *130201-130206, 1308Q, 1309, 1314, 1319, 1327, 1330, 2714, 3560, 40060101-400602, 4044, 4053, 4070, 4075, 4083, 4093, 4096, 4618, 5110, 5131, 5412, 5518, 5534, 5901-5903, 5905                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     |     |     |     |     |     |    |     | 28  |     |     |     | 31  |     |     |     | *1303, 350301, 350302, 3506, 3513, 3536, 3555, 3556, 3559, 3570, 3574, 3575, 3584, 3598, 4071, 4410, 4611, 5115, 5304, 5607, 5608, 5614, 5904                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Lot No.: **67G**

Lot-specific information

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| Length of spec.                                                                                                                                                  | 230 | 170 | 200 | 145 | 105 | 170 | 165 | 180 | 230 | 105 | 170 | 175 | 85  | 80 | 145 | 165 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| PCR product(s)                                                                                                                                                   |     |     |     | 385 |     |     | 220 | 405 |     | 165 |     |     | 385 |    | 190 | 220 |
| Well No.                                                                                                                                                         | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |
| *1315                                                                                                                                                            |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *1316, 1542, 1583, 4095, 4101, 4105-4107, 4109, 4112, 4508, 4510, 4907, 5116, 5121, 5134, 5136, 5182, 5208                                                       |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *1318                                                                                                                                                            |     |     |     |     |     |     |     |     |     |     | 11  |     |     |    |     |     |
| *1401, 1407N, 1412                                                                                                                                               |     | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *140201, 140202, 1403, 1409, 1415, 1416                                                                                                                          |     | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *140203                                                                                                                                                          |     | 2   |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *1404                                                                                                                                                            |     | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *1405-140602, 1413                                                                                                                                               |     | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *1408, 1410                                                                                                                                                      |     | 2   |     |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *1411                                                                                                                                                            |     | 2   |     |     | 5   |     |     | 8   |     |     |     |     |     |    |     |     |
| *1414                                                                                                                                                            |     | 2   | 3   |     | 5   |     |     |     |     |     |     |     |     |    |     |     |
| *150301-150303, 1547, 1554, 1562, 1568, 1598, 9503, 9527, 9531, 9532, 9556, 9558, 9573, 370101-370107, 3703N-3707, 3709-3719, 4211, 4805, 4808, 4815, 4819, 5216 |     |     | 3   |     | 6   |     |     |     |     |     |     |     |     |    |     |     |
| *1509, 1510, 151801-151803, 1523, 1537, 1551, 1572, 1580, 1590, 1593, 1599, 9508, 9515, 9519, 9534, 9553, 9561, 9576                                             |     | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *1529, 153801, 153802, 3521, 5137, 5145, 5163, 5306                                                                                                              |     |     | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *1549, 1574                                                                                                                                                      |     |     | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *1552, 9514, 9524                                                                                                                                                |     | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *1558, 1573                                                                                                                                                      |     |     |     |     |     |     |     |     |     |     | 11  |     |     |    |     |     |
| *1564, 1813, 1815, 1819, 1821, 1830, 3708                                                                                                                        |     |     | 3   |     | 6   |     |     |     |     |     |     |     |     |    |     |     |
| *1569                                                                                                                                                            | 1   |     | 3   |     |     | 6   |     |     |     | 10  |     | 12  |     |    |     |     |
| Well No.                                                                                                                                                         | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |

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Lot-specific information

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| 180 | 160 | 385 | 100 | 220 | 150 | 85 | 185 | 235 | 265 | 70  | 180 | 245 | 60  | 155 | 230 | Length of spec.                                                                                                                                                                     |
|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |     |     | 215 |     | 225 |    |     |     |     | 195 |     |     | 180 |     |     | PCR product(s)                                                                                                                                                                      |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                                                                                            |
|     |     |     |     |     |     |    |     |     |     | 27  |     | 29  |     | 31  |     | *1315                                                                                                                                                                               |
|     |     |     |     |     |     |    |     |     |     |     |     | 29  |     |     |     | *1316, 1542, 1583, 4095,<br>4101, 4105-4107, 4109,<br>4112, 4508, 4510, 4907,<br>5116, 5121, 5134, 5136,<br>5182, 5208                                                              |
|     |     |     |     |     |     |    |     |     |     |     |     | 29  |     |     |     | *1318                                                                                                                                                                               |
|     |     | 19  |     |     |     | 23 | 24  |     | 26  |     |     |     |     |     |     | *1401, 1407N, 1412                                                                                                                                                                  |
|     |     | 19  |     |     |     | 23 |     |     | 26  |     |     |     |     |     |     | *140201, 140202, 1403,<br>1409, 1415, 1416                                                                                                                                          |
|     |     | 19  |     |     |     |    |     |     | 26  |     |     |     |     |     |     | *140203                                                                                                                                                                             |
|     |     |     |     |     |     | 23 |     |     | 26  |     |     |     |     |     |     | *1404                                                                                                                                                                               |
|     |     | 19  |     |     |     | 23 |     |     |     |     |     |     |     |     |     | *1405-140602, 1413                                                                                                                                                                  |
|     |     | 19  |     |     |     | 23 | 24  |     |     |     |     |     |     |     |     | *1408, 1410                                                                                                                                                                         |
|     |     | 19  |     |     |     | 23 |     |     | 26  |     |     |     |     |     |     | *1411                                                                                                                                                                               |
|     |     | 19  |     |     |     |    | 24  |     | 26  |     |     |     |     |     |     | *1414                                                                                                                                                                               |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     | *150301-150303, 1547,<br>1554, 1562, 1568, 1598,<br>9503, 9527, 9531, 9532,<br>9556, 9558, 9573, 370101-<br>370107, 3703N-3707,<br>3709-3719, 4211, 4805,<br>4808, 4815, 4819, 5216 |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     | *1509, 1510, 151801-<br>151803, 1523, 1537, 1551,<br>1572, 1580, 1590, 1593,<br>1599, 9508, 9515, 9519,<br>9534, 9553, 9561, 9576                                                   |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     | *1529, 153801, 153802,<br>3521, 5137, 5145, 5163,<br>5306                                                                                                                           |
|     |     | 18  |     |     |     |    |     |     |     |     |     |     |     |     |     | *1549, 1574                                                                                                                                                                         |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     | 31  |     | *1552, 9514, 9524                                                                                                                                                                   |
|     |     |     |     |     |     |    |     |     |     |     | 28  |     |     |     |     | *1558, 1573                                                                                                                                                                         |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     | *1564, 1813, 1815, 1819,<br>1821, 1830, 3708                                                                                                                                        |
|     | 18  |     | 20  | 21  |     |    |     |     |     |     |     |     | 30  |     |     | *1569                                                                                                                                                                               |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                                                                                            |

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Lot-specific information

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| Length of spec.                                                                                            | 230 | 170 | 200 | 145 | 105 | 170 | 165 | 180 | 230 | 105 | 170 | 175 | 85  | 80 | 145 | 165 |
|------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| PCR product(s)                                                                                             |     |     |     | 385 |     |     | 220 | 405 |     | 165 |     |     | 385 |    | 190 | 220 |
| Well No.                                                                                                   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |
| *1591, 9523, 9551, 1812, 3702, 4012, 480101-4804, 4809-4814, 4817, 4818, 4820                              |     |     | 3   |     |     | 6   |     |     |     |     |     |     |     |    |     |     |
| *9533                                                                                                      |     | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *180101-1803, 1805, 1806, 1808-1811, 1814, 1817N, 1818, 1820, 1822-1828, 1831, 1832, 1834-1843, 1845, 4816 |     |     | 3   |     |     | 6   |     |     |     |     |     |     |     |    |     |     |
| *1804, 180701, 180702, 1829, 3524, 3525, 5302, 5714, 5809, 5812                                            |     |     | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *1833                                                                                                      |     | 2   | 3   |     |     |     |     |     |     | 10  |     |     |     |    |     |     |
| *1844                                                                                                      |     |     | 3   |     |     | 6   |     |     |     |     |     |     |     |    |     |     |
| *3526                                                                                                      |     |     |     |     | 5   |     |     | 8   |     |     |     |     |     |    |     |     |
| *3535                                                                                                      |     |     |     |     |     |     |     |     |     | 10  |     | 12  |     |    |     |     |
| *3538, <i>Cw*1515</i>                                                                                      |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3576, 4061, 5409, 5504, 5508, 5609, 5610, 5612, 5615, 5618, 8101, 8103, 8104N                             |     |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *3582                                                                                                      |     |     |     |     |     |     |     |     |     | 10  |     |     |     |    |     |     |
| *3585                                                                                                      |     |     |     |     |     |     |     |     |     | 10  |     |     |     |    |     |     |
| *3596, 5119                                                                                                |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *380101-380202, 3809, 3811, 3812, 3817, 3818                                                               | 1   | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3803                                                                                                      | 1   |     |     |     |     | 6   |     |     |     |     |     |     |     |    |     |     |
| *3804                                                                                                      | 1   | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3805                                                                                                      | 1   | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3806                                                                                                      | 1   |     | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3807                                                                                                      | 1   |     | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3808                                                                                                      |     | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3810                                                                                                      |     | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3813                                                                                                      | 1   | 2   |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3814                                                                                                      | 1   | 2   |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3815                                                                                                      |     | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3816                                                                                                      | 1   |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *3819                                                                                                      | 1   | 2   | 3   |     |     | 7   |     |     |     |     |     |     |     |    |     |     |
| *3820                                                                                                      |     | 2   | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| Well No.                                                                                                   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |

Lot No.: **67G**

Lot-specific information

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| 180 | 160 | 385 | 100 | 220 | 150 | 85 | 185 | 235 | 265 | 70  | 180 | 245 | 60  | 155 | 230 | Length of spec.                                                                                                        |
|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------------------------------------------------------------------------------------------------|
|     |     |     | 215 |     | 225 |    |     |     |     | 195 |     |     | 180 |     |     | PCR product(s)                                                                                                         |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                               |
| 18  |     |     |     |     |     |    |     |     |     |     |     | 31  |     |     |     | *1591, 9523, 9551, 1812,<br>3702, 4012, 480101-4804,<br>4809-4814, 4817, 4818,<br>4820                                 |
|     |     |     |     |     |     |    |     |     |     | 28  |     |     |     |     |     | *9533                                                                                                                  |
|     |     |     |     |     |     |    |     |     |     |     |     | 31  |     |     |     | *180101-1803, 1805, 1806,<br>1808-1811, 1814, 1817N,<br>1818, 1820, 1822-1828,<br>1831, 1832, 1834-1843,<br>1845, 4816 |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     | 31  |     | *1804, 180701, 180702,<br>1829, 3524, 3525, 5302,<br>5714, 5809, 5812                                                  |
|     |     |     |     |     |     |    |     |     |     |     |     | 31  |     |     |     | *1833                                                                                                                  |
|     |     |     |     |     |     |    |     | 26  |     |     |     |     |     | 31  |     | *1844                                                                                                                  |
|     |     |     |     |     |     |    |     |     |     |     |     | 31  |     |     |     | *3526                                                                                                                  |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     |     | 32  | *3535                                                                                                                  |
|     |     |     |     |     |     |    |     | 28  |     |     |     |     |     |     |     | *3538, Cw*1515                                                                                                         |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     | 31  |     | *3576, 4061, 5409, 5504,<br>5508, 5609, 5610, 5612,<br>5615, 5618, 8101, 8103,<br>8104N                                |
|     |     |     |     |     |     |    |     |     |     |     |     | 31  |     |     |     | *3582                                                                                                                  |
|     |     |     |     |     |     |    |     |     |     | 28  |     |     |     | 31  |     | *3585                                                                                                                  |
|     |     |     |     |     |     |    |     | 27  |     |     |     |     |     |     |     | *3596, 5119                                                                                                            |
|     |     | 19  |     | 21  |     |    | 24  |     |     |     |     |     |     |     |     | *380101-380202, 3809,<br>3811, 3812, 3817, 3818                                                                        |
|     | 18  |     |     | 21  |     |    | 24  |     |     |     |     |     |     |     |     | *3803                                                                                                                  |
|     | 18  |     |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *3804                                                                                                                  |
| 19  |     |     |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *3805                                                                                                                  |
|     |     | 19  |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *3806                                                                                                                  |
|     |     | 19  |     | 21  |     |    | 24  |     |     |     |     |     |     |     |     | *3807                                                                                                                  |
|     |     | 19  |     | w   |     |    | 24  |     |     |     |     |     |     |     |     | *3808                                                                                                                  |
| 19  |     |     |     |     |     |    | 24  |     |     |     |     |     |     |     |     | *3810                                                                                                                  |
|     |     | 19  |     | 21  |     |    | 24  |     |     |     |     |     |     |     |     | *3813                                                                                                                  |
|     |     | 19  |     | 21  |     | w  | 24  |     |     |     |     |     |     |     |     | *3814                                                                                                                  |
|     |     | 19  |     | 21  |     |    | 24  |     |     |     |     |     |     |     |     | *3815                                                                                                                  |
| 19  |     |     |     | 21  |     |    | 24  |     |     |     |     |     |     |     |     | *3816                                                                                                                  |
|     |     | 19  |     |     |     |    | 24  |     |     |     |     |     |     |     | w   | *3819                                                                                                                  |
|     |     | 19  |     |     |     |    | 24  |     |     |     |     |     |     |     | 32  | *3820                                                                                                                  |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                               |

Lot No.: **67G**

Lot-specific information

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

| Length of spec.                                                                                                                                           | 230 | 170 | 200 | 145 | 105 | 170 | 165 | 180 | 230 | 105 | 170 | 175 | 85  | 80 | 145 | 165 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| PCR product(s)                                                                                                                                            |     |     |     | 385 |     |     | 220 | 405 |     | 165 |     |     | 385 |    | 190 | 220 |
| Well No.                                                                                                                                                  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |
| *4025, 4068                                                                                                                                               |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *4036, 4077                                                                                                                                               |     |     |     |     |     |     |     | 8   |     |     |     |     |     |    |     |     |
| *4086                                                                                                                                                     |     |     |     |     |     |     |     | 8   |     |     |     |     |     |    |     |     |
| *4806                                                                                                                                                     |     |     | 3   |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *4807                                                                                                                                                     |     |     | 3   |     |     | 6   |     | 8   |     |     |     |     |     |    |     |     |
| *511301, 511302, 5162, 5214                                                                                                                               |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *5122, 7803                                                                                                                                               |     |     |     |     |     |     |     |     |     | 10  |     |     |     |    |     |     |
| *5401, 5402, 5404, 5405N, 5407, 5408N, 5411, 5413-5419, 550201-550205, 5507, 5510, 5512, 5513, 5516, 5519, 5522, 5523, 5526, 5527, 5530, 5532, 5535, 5623 |     |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *5403, 560101-5602, 5604, 5611, 5616, 5617, 5620, 5622, 5624, 5626                                                                                        |     |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *5410, 5509, 5521, 5537                                                                                                                                   |     |     |     |     |     |     |     |     |     |     | 11  |     |     | 14 |     |     |
| *550101-550106, 5503, 5505, 5511, 5515, 5517, 5520, 5524, 5525, 5528, 5529, 5531, 5533, 5536, 5538                                                        |     |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *5613, 5625, 8201, 8202                                                                                                                                   |     |     |     |     |     |     |     |     |     |     |     |     |     | 14 |     |     |
| *5619N                                                                                                                                                    |     |     |     |     |     |     |     |     |     |     | 11  |     |     | 14 |     |     |
| *5820, 6702                                                                                                                                               | 1   |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| *670101                                                                                                                                                   | 1   |     |     |     | 5   |     |     |     |     |     |     |     |     | 14 |     |     |
| HLA-B allele <sup>4</sup>                                                                                                                                 |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| Well No.                                                                                                                                                  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |
| Cw*0130                                                                                                                                                   |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |
| Well No.                                                                                                                                                  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15  | 16  |

<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\*39 subtyping.

In addition, wells number 3, 5, 6, 10, 12, 13, 15 to 18, 20 to 23, 26, 27, 29 to 32 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.



Lot No.: **67G**

Lot-specific information

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| 180 | 160 | 385 | 100 | 220 | 150 | 85 | 185 | 235 | 265 | 70  | 180 | 245 | 60  | 155 | 230 | Length of spec.<br>PCR product(s)                                                                                                                                            |
|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |     |     | 215 |     | 225 |    |     |     |     | 195 |     |     | 180 |     |     | Well No.                                                                                                                                                                     |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  |                                                                                                                                                                              |
|     |     | ?   |     |     |     |    |     |     |     |     |     |     |     | 31  |     | *4025, 4068                                                                                                                                                                  |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     | 31  |     | *4036, 4077                                                                                                                                                                  |
|     |     |     |     |     |     |    |     |     |     |     |     | 29  |     | 31  |     | *4086                                                                                                                                                                        |
|     |     | 19  |     |     |     |    |     |     |     |     |     |     |     | 31  |     | *4806                                                                                                                                                                        |
|     | 18  |     |     |     |     |    |     |     |     |     |     |     |     | 31  |     | *4807                                                                                                                                                                        |
|     |     |     |     |     |     |    |     |     |     | 27  | 28  |     |     |     |     | *511301, 511302, 5162,<br>5214                                                                                                                                               |
|     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     | *5122, 7803                                                                                                                                                                  |
|     |     |     |     |     |     |    |     |     |     |     |     | 29  |     | 31  |     | *5401, 5402, 5404, 5405N,<br>5407, 5408N, 5411, 5413-<br>5419, 550201-550205,<br>5507, 5510, 5512, 5513,<br>5516, 5519, 5522, 5523,<br>5526, 5527, 5530, 5532,<br>5535, 5623 |
|     |     |     |     |     |     |    |     |     |     |     | 28  |     |     | 31  |     | *5403, 560101-5602, 5604,<br>5611, 5616, 5617, 5620,<br>5622, 5624, 5626                                                                                                     |
|     |     |     |     |     |     |    |     |     |     |     |     | 29  |     |     |     | *5410, 5509, 5521, 5537                                                                                                                                                      |
|     |     |     |     |     |     |    |     |     |     |     |     | 29  |     |     |     | *550101-550106, 5503,<br>5505, 5511, 5515, 5517,<br>5520, 5524, 5525, 5528,<br>5529, 5531, 5533, 5536,<br>5538                                                               |
|     |     |     |     |     |     |    |     |     |     |     | 28  |     |     |     |     | *5613, 5625, 8201, 8202                                                                                                                                                      |
|     |     |     |     |     |     |    |     |     |     |     | 28  |     |     | 31  |     | *5619N                                                                                                                                                                       |
|     |     |     |     | 21  |     |    |     |     |     |     |     |     |     |     |     | *5820, 6702                                                                                                                                                                  |
|     |     | 19  |     | 21  |     | 23 | 24  |     |     |     |     |     |     |     |     | *670101                                                                                                                                                                      |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | HLA-B allele <sup>4</sup><br>Well No.                                                                                                                                        |
|     |     |     |     |     |     |    |     |     | 26  |     |     |     |     |     |     | <i>Cw</i> *0130                                                                                                                                                              |
| 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | Well No.                                                                                                                                                                     |

<sup>2</sup>The nucleotide position, in the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exon matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>3</sup>The nucleotide position, in the 1<sup>st</sup>, 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 in the anti-sense direction. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The nucleotide sequence of the B\*390102 allele has been shown to be identical B\*390101. The nucleotide sequence of the B\*3921 allele has been shown to be identical B\*3924.

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<sup>5</sup>Primer mix 4: Specific PCR fragment of 145 bp in the B\*3926 allele. Specific PCR fragment of 385 bp in the B\*3951 allele.

Primer solution 7: Specific PCR fragment of 165 bp in the B\*3917 allele. Specific PCR fragment of 220 bp in the B\*3903, B\*3914, B\*3924, B\*3929 and B\*3937 and in the B\*3817 alleles.

Primer solution 8: Specific PCR fragment of 180 bp in the B\*3904, B\*3947 and B\*3950 and in the B\*1411, B\*3526, B\*4036, B\*4077, B\*4086 and B\*4807 alleles. Specific PCR fragment of 405 bp in the B\*3946 allele.

Primer solution 10: Specific PCR fragment of 105 bp in the B\*391901-391902 and in the B\*1833, B\*3582, B\*3585, B\*5122 and B\*7803 alleles. Specific PCR fragment of 165 bp in the B\*3907 and in the B\*1569 and B\*3535, alleles.

Primer mix 13: Specific PCR fragment of 85 bp in the B\*3923, B\*3927 and B\*3944 alleles. Specific PCR fragment of 385 bp in the B\*3951 allele.

Primer mix 15: Specific PCR fragment of 145 bp in the B\*3954 allele. Specific PCR fragments of 190 bp in the B\*3912, B\*3931 and B\*3938Q alleles.

Primer solution 16: Specific PCR fragment of 165 bp in the B\*3914 and B\*3929 alleles. Specific PCR fragment of 220 bp in the B\*3909 and B\*3916 alleles.

Primer solution 20: Specific PCR fragment of 100 bp in the B\*390105, B\*3918 and B\*3927 and in the B\*1569 alleles. Specific PCR fragment of 215 bp in the B\*3909 allele.

Primer solution 22: Specific PCR fragment of 150 bp in the B\*3945 allele. Specific PCR fragment of 225 bp in the B\*3928 allele.

Primer mix 27: Specific PCR fragment of 70 bp in the B\*5119 alleles. Specific PCR fragment of 195 bp in the B\*1315, B\*3596, B\*511301-511302, B\*5162 and B\*5214 alleles. Specific PCR fragments of 70 and 195 bp in the B\*3932, B\*3938Q and B\*3948 alleles (please observe that both specific PCR fragments may not be obtained).

Primer mix 30: Specific PCR fragment of 60 bp in the B\*3918 and B\*3935 and in the B\*1569 alleles. Specific PCR fragment of 180 bp in the B\*3952 allele.

<sup>6</sup>The B\*3910 and B\*670102 alleles will give rise to identical amplification patterns with the HLA-B\*39 subtyping kit. These two alleles can be distinguished by the HLA-B low resolution and/or HLA-B\*67 kits.

‘w’, might be weakly amplified.

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





**CERTIFICATE OF ANALYSIS****Olerup SSP® HLA-B\*39 SSP****Product number:** 101.566-12/04 – including *Taq* pol.**Lot number:** 67G**Expiry date:** 2012-February-01**Number of tests:** 12 tests – Product No. 101.566-12

4 tests – Product No. 101.566-04

**Number of wells per test:** 32**Well specifications:**

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 1        | 2009-674-01    | 13       | 2009-674-13    | 25       | 2009-674-25    |
| 2        | 2009-674-02    | 14       | 2009-674-14    | 26       | 2009-674-26    |
| 3        | 2009-674-03    | 15       | 2009-674-15    | 27       | 2009-674-27    |
| 4        | 2009-674-04    | 16       | 2009-674-16    | 28       | 2009-674-28    |
| 5        | 2009-674-05    | 17       | 2009-674-17    | 29       | 2009-674-29    |
| 6        | 2009-674-06    | 18       | 2009-674-18    | 30       | 2009-674-30    |
| 7        | 2009-674-07    | 19       | 2009-674-19    | 31       | 2009-674-31    |
| 8        | 2009-674-08    | 20       | 2009-674-20    | 32       | 2009-674-32    |
| 9        | 2009-674-09    | 21       | 2009-674-21    |          |                |
| 10       | 2009-674-10    | 22       | 2009-674-22    |          |                |
| 11       | 2009-674-11    | 23       | 2009-674-23    |          |                |
| 12       | 2009-674-12    | 24       | 2009-674-24    |          |                |

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 4, 7, 10, 13, 15, 22, 25, 27, 30 and 32 were available. The specificities of the primers in primer solutions 7, 10, 13, 15, 22, 27, 30 and 32 were tested by separately adding one or two additional 5'-primers, respectively one or two additional 3'-primers. In primer solution 4 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solution 25 it was only possible to test the 3'-primer, the 5'-primer was not possible to test. Additional primers in primer solutions 3, 8, 16 and 20 were tested by separately adding either 5'- or 3'-primers. One or two 5'-primers in primer solutions 1, 5, 8, 13, 15, 16, 22, 25 and 32 were not possible to test. One or two 3'-primers in primer solutions 4, 11, 13, 15, 22, 27, 28 and 30 were not possible to test.

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

**Date of approval:** 2011-March-17

**Approved by:**

**Quality Control, Supervisor**

## Declaration of Conformity

**Product name:** *Olerup SSP*® HLA-B\*39  
**Product number:** 101.566-12/04  
**Lot number:** 67G

**Intended use:** HLA-B\*39 histocompatibility testing

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

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

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(Notified Body number: 0088.)

Saltsjöbaden, Sweden  
2011-March-17

Olle Olerup  
Managing Director



Lot No.: **67G**

Lot-specific information

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

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