

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **30R**

Lot-specific information

Olerup SSP[®] HLA-A-B-DR SSP Combi Tray

| | |
|---|--|
| Product number: | 101.701-24/06 – including <i>Taq</i> pol. 101.701-24u/06u – without <i>Taq</i> pol. |
| Lot number: | 30R |
| Expiry date: | 2015-February-01 |
| Number of tests: | 24 tests – Product No. 101.701-24/24u 6 tests – Product No. 101.701-06/06u |
| Number of wells per test: | 95 +1 |
| Storage - pre-aliquoted primers: | dark at -20°C |
| - PCR Master Mix: | -20°C |
| - Adhesive PCR seals | RT |
| - Product Insert | RT |

This Product Description is only valid for Lot No. 30R.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] HLA-A-B-DR SSP COMBI TRAY LOT (80N)

The Lot-specific information for HLA-A-B-DR Combi Tray including and without *Taq* polymerase is described in one common Product Insert.

The **HLA-A low resolution** specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP[®]* HLA-A-B-DR SSP Combi Tray lot was made (**Lot No. 80N**).

The HLA-A low primer set is unchanged compared to the previous lot.

The **HLA-B low resolution** specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP[®]* HLA-A-B-DR SSP Combi Tray lot was made (**Lot No. 80N**).

| Well | 5'-primer | 3'-primer | rationale |
|------|-----------|-----------|---|
| 48 | - | Added | 3'primer added for increased yield of HLA-specific PCR product. |
| 50 | Added | Added | Primer pair added for the B*58:36 allele. |

The **HLA-DR low resolution** specificity and interpretation tables have been updated for the HLA-DRB alleles described since the previous *Olerup SSP[®]* HLA-A-B-DR SSP Combi Tray lot was made (**Lot No. 80N**).

| Well | 5'-primer | 3'-primer | rationale |
|------|-----------|-----------|---|
| 87 | - | Added | 3'primer added for increased yield of HLA-specific PCR product. |

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Change in revision R01 compared to R00:

1. A missing line containing the product name has been inserted on the Certificate of Analysis page.

Change in revision R02 compared to R01:

1. Primer mix 43 does not amplify the B*15:101 allele. This has been corrected in the Specificity and Interpretation tables.

Changes in revision R03 compared to R02:

1. One missing page in the DR low interpretation table has been inserted.
2. The size of the positive control band in primer mixes 52 and 55 is 800 bp. This has been corrected in the B low interpretation table.

Change in revision R04 compared to R03:

1. The HLA-A*03:01:03, 03:09, 03:23:01, 03:89, 03:108, 11:06, 11:18, 11:121, 24:28, 24:89, 26:03:01-26:03:02, 26:06, 26:07:02, 26:21, 26:30, 30:13, 30:16, 30:44, 30:46, 68:05, 68:15, 68:20 and 68:30 alleles are weakly amplified by primer mix 2. This has been corrected in the Specificity and Interpretation Tables.

2. The DR serology has been corrected in the Specificity Table.

Change in revision R05 compared to R04:

1. In primer mix 5, the specific PCR product of 535 base pairs may be difficult to distinguish from the internal control band. A foot note has been added to the Specificity Table.

Change in revision R06 compared to R05:

1. Primer mix 43 does not amplify the B*44:10 allele. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R07 compared to R06:

1. Primer mix 11 does not amplify the A*31:03 and A*66:15 alleles. This has been corrected in the Specificity and Interpretation tables.

Change in revision R08 compared to R07:

1. Primer mix 28 amplifies the B*15:143, 35:19, 40:170, 44:07 and 50:07 alleles, and primer mix 50 amplifies the B*37:06:01 allele. Foot notes for these two primer mixes have been added to the Specificity Table.

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

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

| Length of PCR product | 105 | 200 | 105 | 80 | 75 | 80 |
|------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 5'-primer¹ | 164 | 340 | 440 | 45 | 45 | 43 |
| | ⁵ -CAC ³ | ⁵ -Agg ³ | ⁵ -TTA ³ | ⁵ -Tgg ³ | ⁵ -Tgg ³ | ⁵ -Tgg ³ |
| 3'-primer² | 231 | 2nd I | 507 | 59 | 58 | 57 |
| | ⁵ -TgC ³ | ⁵ -AAA ³ | ⁵ -TTg ³ | ⁵ -CTC ³ | ⁵ -ggC ³ | ⁵ -CTC ³ |
| A* | + | + | + | | | |
| B* | + | + | + | | | |
| C* | + | + | + | | | |
| DRB1 | | | | + | + | |
| DRB3 | | | | + | + | |
| DRB5 | | | | + | | |
| DQB1 | | | | | + | |
| DPB1 | | | | | | + |

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

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

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Lot-specific information

PRODUCT DESCRIPTION

HLA-A-B-DR SSP Combi Tray

CONTENT

The primer set contains 5'- and 3'-primers for grouping the HLA-A*01:01 to A*80:02 alleles into the corresponding serological groups A1 to A80.

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

The primer set contains 5'- and 3'-primers for grouping the DRB1*01:01 to DRB1*10:04 alleles into the corresponding serological groups DR1 to DR18 as well as primer pairs for recognizing the DRB3, DRB4 and DRB5 groups of alleles.

PLATE LAYOUT

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

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

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

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

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

Well 96 – Negative Control.

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

Well No. 1 is marked with the Lot No. '30R'.

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

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

INTERPRETATION

Only HLA-A alleles will be amplified by the 24 wells of the HLA-A low resolution primer set, **wells 1 to 24**, except that primer mix 6 will amplify the B*18:27 allele. Thus, the interpretation of HLA-A low resolution is only influenced by this HLA-B allele and not by other HLA Class I genes.

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Lot No.: 30R**Lot-specific information**

Only HLA-B alleles will be amplified by the 48 wells of the HLA-B low resolution, primer set, **wells 25 to 72**, except that the C*02:23 and C*04:77 alleles will be amplified by primer mix 25, the C*03:05, 03:25, 03:27 and 03:143 alleles will be amplified by primer mix 27, the C*01:30 allele will be amplified by primer mix 28, the A*23:31, A*24:106, C*07:231 and C*16:10 alleles will be amplified by primer mix 30, the C*07:02:30 and C*08:16:02 alleles will be amplified by primer mix 31, the C*07:46 allele will be amplified by primer mix 32, the A*24:174 allele will be amplified by primer mix 37, the C*03:102 allele will be amplified by primer mixes 41 and 65, the C*15:51 allele will be amplified by primer mix 45, the C*03:129 allele will be amplified by primer mix 49, the C*15:25 allele will be amplified by primer mix 53, the C*15:39 allele will be amplified by primer mix 55, the C*15:02:04 allele will be amplified by primer mix 64, the C*03:12 and 03:19 alleles will be amplified by primer mix 65, the C*02:06 and 02:47 alleles will be weakly amplified by primer mix 67 and the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles will be amplified by primer mix 69.

Thus, the interpretation of HLA-B low resolution typings is only influenced by these alleles and not by other alleles of other HLA class I genes.

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

UNIQUELY IDENTIFIED ALLELES

All the HLA-A alleles, i.e. **A*01:01 to A*80:02**, recognized by the HLA Nomenclature Committee in April 2012¹ will be amplified by the primers in the HLA-A low resolution primer set, **wells 1 to 24**. The HLA-A alleles will be grouped into their corresponding serological specificities².

All the HLA-B alleles, i.e. **B*07:02 to B*83:01**, recognized by the HLA Nomenclature Committee in April 2012¹ will be amplified by the primers in the HLA-B low resolution primer set, **wells 25 to 72**. The HLA-B alleles will be grouped into their corresponding serological specificities³.

All the HLA-DRB1, -DRB3, -DRB4⁴ and -DRB5 alleles, i.e. **DRB1*01:01:01 to 10:04, DRB3*01:01:02:01 to DRB3*03:03, DRB4*01:01:01:01 to DRB4*01:08, DRB5*01:01:01 to DRB5*02:05**, recognized by the HLA Nomenclature Committee in April 2012¹ will be amplified by the primers in the DR low resolution primer set, **wells 73 to 95**. The HLA-DRB alleles will be grouped into their corresponding serological specificities⁵.

¹HLA-A, HLA-B and HLA-DRB alleles listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

²The A*23:14 and the A*24:05, 24:13:02, 24:24 and 24:199 alleles will give rise to identical amplification patterns. These five alleles can be separated by the respective high resolution SSP primer sets.

³The B*08:26, 08:50, 08:62 and 08:85 and B*42:07 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*13:21 and 13:35 and the B*44:135 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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The B*14:08 and the B*39:25N, 39:30, 39:32-39:34, 39:47 and 39:50 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*18:29 and the B*35:32:01-35:32:02, 35:37, 35:53N, 35:64, 35:68:01-35:68:02, 35:99, 35:118-35:119 and 35:174 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*41:09 and the B*45:02 and 45:03 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*54:01:02 and the B*55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48 and 55:50 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*55:04, 55:08, 55:13, 55:27, 55:46 and 55:49 and the B*56:15, 56:19N and 56:22 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*55:23 and 55:32 and the B*56:18 and 56:31-56:32 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*57:01:01-57:01:04, 57:01:06-57:01:13, 57:06, 57:08, 57:10, 57:15-57:16, 57:18-57:20, 57:22-57:23, 57:25-57:27, 57:29-57:30, 57:33-57:38, 57:40-57:41, 57:43-57:44, 57:48-57:50 and 57:52-57:56 and the B*58:36 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁴The DRB4*02:01N and DRB4*03:01N null alleles will not be amplified by the DR low resolution primer set.

⁵The DRB1*08:09 and the DRB1*14:15 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1*08:20 and the DRB1*13:18, 13:47 and 13:55 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1*08:31, 08:41 and DRB1*11:67 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1*13:13 and 13:119 and the DRB1*14:84 and 14:116 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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SPECIFICITY TABLE

HLA-A low resolution primer set

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

| Primer Mix | Size of spec. PCR product ¹ | Size of control band ² | HLA-A serology ³ | Amplified HLA-A alleles ^{4,5} |
|------------------------|--|-----------------------------------|---|--|
| 1^{6,7} | 120 bp, 145bp, 225 bp | 800 bp | A1, A36 | *01:01:01:01-01:04N, 01:06-01:33, 01:35-01:109, 03:18, 03:135, 11:94, 11:112, 36:01-36:05 |
| 2⁷ | 210 bp, 255 bp, 365 bp, 415 bp | 800 bp | A2,A19, A28, A203, A210, A3, A11, A9, A26, A30, A68 | *02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:22:02, 02:24:01-02:35:01, 02:35:03-02:47, 02:49-02:77, 02:78 ^w , 02:79:01-02:97:02, 02:99, 02:101:01-02:128, 02:130-02:358, 03:01:03 ^w , 03:09 ^w , 03:23:01 ^w , 03:89 ^w , 03:108 ^w , 11:06 ^w , 11:18 ^w , 11:121 ^w , 24:28 ^w , 24:89 ^w , 26:03:01-26:03:02 ^w , 26:06 ^w , 26:07:02 ^w , 26:21 ^w , 26:30 ^w , 30:13 ^w , 30:16 ^w , 30:44 ^w , 30:46 ^w , 68:05 ^w , 68:15 ^w , 68:20 ^w , 68:30 ^w |
| 3⁸ | 205 bp, 235 bp | 1070 bp | A1, A3, A11, A32, A34, A36 | *01:12, 01:19, 01:21, 02:338, 03:01:01:01-03:17:01, 03:19-03:74, 03:76-03:94, 03:96-03:134, 03:136-03:143, 11:25, 11:60, 24:92, 32:04, 34:02:01, 34:02:02 ^w , 34:02:03-34:04, 34:07-34:09, 36:02 |
| 4 | 190 bp | 800 bp | A1, A3, A11, A30, A36, A68 | *01:01:01:01-01:01:22, 01:01:24-01:04N, 01:06-01:07, 01:09-01:11N, 01:13, 01:16N-01:18N, 01:20-01:29, 01:31N-01:33, 01:35-01:78, 01:80-01:98, 01:100-01:109, 02:78, 02:169, 03:12, 03:18, 03:88, 03:135, 11:01:01-11:27, 11:29-11:52Q, 11:54-11:122, 26:19, 26:72, 30:08, 36:04, 68:13, 68:66 |
| 5¹⁴ | 160 bp, 535 bp | 800 bp | A3, A9, A23, A24, A2403, A31, A32 | *01:95, 03:30, 23:01:01-23:51, 24:02:01:01-24:11N, 24:13:01-24:15, 24:17-24:64, 24:66-24:88, 24:90N-24:128, 24:130-24:199, 31:08, 32:05, 32:13, 33:53 |
| 6¹¹ | 135 bp, 175 bp, 210 bp | 800 bp | A9, A23, A24, A29, A80 | *23:01:01-23:51, 24:05, 24:13:02, 24:24, 24:199, 29:07, 31:29, 80:01-80:02, B*18:27 |
| 7 | 175 bp, 205 bp | 1070 bp | A2, A3, A9, A23, A24, A2403, A26 | *02:17:01 ^w -02:17:02 ^w , 23:14:01, 24:02:01:01-24:11N, 24:13:01-24:13:02, 24:17-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:91, 24:93, 24:95-24:113, 24:115-24:137, 24:139-24:187, 24:189-24:199, 26:16, 33:19, 68:45 |
| 8 | 165 bp, 200 bp | 800 bp | A2, A3, A10, A11, A25, A26, A28, A32, A34, A66, A68, A69 | *01:51, 02:55, 03:24, 03:50, 11:10, 25:01:01-25:16, 26:01:01-26:06, 26:08-26:15, 26:17-26:18, 26:20-26:43:02, 26:45-26:63, 26:65-26:71N, 26:73-26:74, 29:28, 32:15, 33:51, |

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| | | | | |
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| | | | | 34:01:01-34:09, 66:01-66:16, 68:01:01:01-68:88, 69:01 |
| 9^{6,9} | 75 bp | 800 bp | A3, A25, A32 | *25:01:01-25:16, 32:01:01-32:02, 32:04, 32:06-32:37, 32:39-32:41 |
| 10⁶ | 85 bp | 800 bp | A10, A26 | *01:51, 01:83, 02:146, 26:01:01-26:02, 26:04, 26:07:01-26:18, 26:20, 26:22-26:29, 26:31-26:43:02, 26:45-26:71N, 26:73-26:74, 33:13, 33:48, 68:84 |
| 11^{6,7} | 80 bp, 175 bp, 500 bp | 1070 bp | A1, A9, A10, A11, A26, A31, A34, A66 | *01:13, 01:28, 03:63, 03:88, 11:01:01-11:27, 11:29-11:52Q, 11:54-11:122, 24:19, 24:44, 26:03:01-26:03:02, 26:06, 26:21, 34:01:01-34:08, 66:01, 66:04-66:11, 66:13-66:14, 80:02 |
| 12⁶ | 125 bp, 185 bp | 800 bp | A3, A10, A25, A26, A31, A34, A43, A66 | *02:309, 03:01:19, 11:11, 25:05-25:06, 26:09, 26:54, 31:03-31:04, 34:01:01-34:09, 43:01, 66:02-66:03, 66:16 |
| 13 | 175 bp, 225 bp | 1070 bp | A1, A2, A3, A10, A25, A26, A34, A43, A66 | *01:13, 02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:103, 02:135, 03:01:01:01-03:01:22, 03:01:24-03:07, 03:09-03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:56, 03:58, 03:60-03:71, 03:73-03:87, 03:90-03:106, 03:109-03:110, 03:112-03:141, 03:143, 25:01:01-25:05, 25:07-25:16, 26:01:01-26:01:20, 26:01:22-26:01:24, 26:02 ^w , 26:03:01-26:03:02, 26:05-26:08, 26:10-26:33, 26:35-26:43:02, 26:45-26:72, 26:74, 30:55, 34:08, 43:01, 66:01, 66:04-66:15, 68:71, 74:13 |
| 14⁶ | 100 bp, 200 bp, 240 bp | 800 bp | A2, A29 | *02:237, 02:309, 03:95, 26:19, 26:22, 29:01:01:01-29:35, 30:57, 33:13, 66:09 |
| 15^{6,7,12,13} | 90 bp, 135 bp, 205 bp | 1070 bp | A1, A30 | *01:13, 01:28, 03:43, 03:82, 11:113, 30:01:01-30:04:02, 30:06-30:20, 30:22-30:63, 31:35 |
| 16 | 240 bp, 370 bp, 395 bp | 1070 bp | A2, A24, A31, A32 | *02:237, 03:95, 29:14, 31:01:02-31:62, 32:05, 33:53 |
| 17 | 140 bp, 180 bp | 1070 bp | A32 | *01:95, 03:43, 03:82, 29:13, 31:35, 32:01:01-32:03, 32:05-32:41, 74:07 |
| 18 | 200 bp | 1070 bp | A33, A68 | *02:243, 33:01:01-33:01:06, 33:03:01-33:50, 33:52-33:59, 68:29 |
| 19 | 160 bp, 200 bp | 800 bp | A74 | *29:19, 74:01-74:15 |
| 20¹¹ | 220 bp, 245 bp | 800 bp | A2, A210, A25, A68 | *02:34-02:35:03, 02:46, 02:48, 02:56:01-02:56:02, 02:62, 02:70, 02:78, 02:103, 02:129, 25:05, 26:54, 68:01:01:01-68:88 |
| 21 | 240 bp, 375 bp | 800 bp | A2, A26, A28, A68, A69 | *02:55, 02:243, 24:82, 26:22, 33:22, 66:09, 68:29, 69:01 |
| 22^{6,10} | 85 bp, 240 bp | 800 bp | A2, A36 | *02:34-02:35:03, 02:46, 02:48, 02:56:01-02:56:02, 02:62, 02:70, 02:78, 02:103, 02:129, 31:62, 36:01-36:05 |

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| 23 ^{6,11} | 75 bp, 160 bp, 240 bp, 495 bp | 800 bp | A2, A26, A28, A36, A68, A80 | *02:55, 03:41, 03:63, 03:75, 03:88, 24:18, 26:03:01-26:03:02, 26:05-26:06, 26:21, 26:30, 33:24, 36:02, 68:05, 68:15, 68:20, 80:01 |
| 24 ¹² | 360 bp | 1070 bp | A10, A26, A31, A66 | *02:135, 02:309, 03:01:19, 25:13, 26:30, 26:65, 31:04, 34:09, 66:02-66:03, 66:12, 66:16 |

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

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

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

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

In addition, wells 2, 4, 5, 6, 8, 9, 10, 12, 14 and 19 to 23 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

³The serological reactivity of all HLA-A alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁴For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

⁵Primer mix 6 will amplify the B*18:27 allele.

⁶HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁷The primer pairs in wells 1, 2, 11 and 15 will in many samples give rise to two or three HLA-specific PCR fragments.

⁸Primer mix 3 may faintly amplify the A*30:04, 30:06, 30:17 and 30:29 alleles.

⁹Primer mix 9 may weakly amplify the A*34 alleles.

¹⁰Primer mix 22 might faintly amplify most A*11 alleles.

¹¹Primer mixes 6, 20 and 23 may have a tendency to giving rise to primer oligomer formation.

¹²Primer mixes 15 and 24 may give rise to a lower yield of HLA-specific PCR product than the other HLA-A low primer mixes.

¹³Primer mix 15 may have tendencies of unspecific amplifications.

¹⁴In primer mix 5, the specific PCR product of 535 base pairs may be difficult to distinguish from the internal control band. The alleles giving rise to a product of this size are the following: A*01:95, 23:09, 23:51, 24:02:06, 24:02:27, 24:08, 24:24, 24:29, 24:42, 24:67, 24:116, 24:137, 24:140, 24:145, 24:156, 24:171, 24:191, 24:192 and 32:13.

‘w’, might be weakly amplified.

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Lot-specific information
SPECIFICITY TABLE

HLA-B low resolution primer set

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

| Primer Mix | Size of spec. PCR product ¹ | Size of control band ² | HLA-B serol. ³ | Amplified HLA-B alleles ^{4,5} |
|----------------------------|--|-----------------------------------|--|--|
| 25^{6,10} | 110 bp | 800 bp | 7, 703, 40, 41, 42, 48, 61 | *07:02:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-41, 07:47, 07:49N-07:50, 07:52, 07:54-07:59, 07:61-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:154, 08:79, 15:138, 15:230, 15:241, 37:07, 40:15-40:16, 40:23, 40:32, 40:98, 40:136, 40:158, 40:183, 41:08, 42:05:01-42:05:02, 44:150, 48:05, 48:08, 48:15, C*02:23, C*04:77 |
| 26 | 215 bp | 1070 bp | 8, 44 | *08:01:01-08:05, 08:07-08:25, 08:27-08:49, 08:51-08:61, 08:63-08:64, 08:66-08:84, 08:86N-08:88, 15:142, 15:180, 44:49, 51:68 |
| 27 | 140 bp, 235 bp | 1070 bp | 7, 8, 13, 15, 35, 4005, 44, 49, 61, 62, 77 | *07:20, 07:24, 07:60, 07:100, 07:131, 08:21, 08:25, 13:01:01-13:04, 13:06-13:08Q, 13:10-13:23, 13:25-13:38, 13:40-13:54, 15:07:01-15:07:02, 15:36 ^w , 15:45, 15:55, 15:68, 15:89 ^w , 15:126, 15:207, 35:05:01-35:05:02, 35:16-35:17, 35:22, 35:30, 35:51, 35:58, 35:72, 35:89, 35:97, 35:113-35:114, 35:125, 35:164, 35:199, 40:05, 40:71, 40:174, 44:08 ^w , 44:54, 44:57 ^w , 44:60, 44:106, 44:110, 44:135, 46:12, 51:64, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*03:143 |
| 28^{7,8,15} | 130 bp, 265 bp | 800 bp | 12, 13, 14, 17, 21, 35, 40, 41, 44, 45, 47, 49, 50, 60, 61, 64, 65 | *13:01:01-13:04, 13:06-13:13, 13:15-13:23, 13:25-13:54, 14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:32, 15:46, 15:53, 15:106, 15:212, 18:44:01, 35:46-35:47, 35:63, 35:154, 40:01:01-40:01:24, 40:07, 40:10:01-40:10:02, 40:14:01-40:16, 40:22N-40:23, 40:25, 40:30-40:34, 40:36, 40:38, 40:42-40:43, 40:45, 40:47-40:49, 40:51-40:55, 40:58-40:63, 40:65-40:67, 40:69, 40:72:01-40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:110, 40:112-40:114, 40:116-40:118N, 40:121, 40:123-40:126, 40:128-40:130, 40:132, 40:134-40:136, 40:139-40:141, 40:146-40:147, 40:150-40:156, 40:158, 40:160, 40:163-40:164, 40:166, 40:168, 40:171-40:172, 40:175, 40:178-40:179, 40:182-40:183, 40:186-40:188, 40:191-40:193, 41:01-41:20, 44:02:01:01-44:03:06, 44:03:08-44:05:03, 44:09-44:39, 44:41:01-44:43:02, 44:45-44:56N, 44:58N-44:80, 44:82, 44:84-44:102, 44:104-44:110, 44:112-44:129, 44:132-44:133, 44:135-44:144, 44:146-44:152, 45:01-45:14, 47:01:01:01-47:08, 49:01:01-49:02, 49:04-49:20, 50:01:01-50:02, 50:04-50:06, 50:08-50:16, 57:45, 57:51, C*01:30 |

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Lot-specific information

| | | | | |
|-----------------------|------------------------------|---------------|--|---|
| 29⁸ | 185 bp, 235 bp | 800 bp | 7, 16, 17, 27, 2708, 37, 38, 3901, 3902, 39, 64, 67 | *07:02:32, 14:01:01-14:01:02, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 27:01-27:05:15, 27:05:17- 27:06, 27:08-27:10, 27:12-27:13, 27:16-27:18, 27:20, 27:23, 27:26-27:27, 27:29, 27:31, 27:35-27:37, 27:39- 27:42, 27:44-27:46, 27:48-27:61, 27:64N-27:69, 27:72- 27:75, 27:77-27:80, 27:82-27:89, 37:02, 38:01:01- 38:02:02, 38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:40, 39:01:01:01-39:01:01:02L, 39:01:03-39:01:08, 39:01:10- 39:02:01, 39:03, 39:05:01-39:09, 39:11, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:39:01, 39:40N-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73, 47:04- 47:05, 48:21, 48:26, 67:01:01, 67:03 |
| 30 | 190 bp | 800 bp | 14, 35, 38, 39, 65 | *07:28, 08:87, 14:02:01-14:02:02, 14:02:04-14:02:05, 14:03-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 15:77, 15:189, 15:233, 35:26, 38:05, 38:33, 39:04, 44:16, 44:37:01- 44:37:02, 44:64:01-44:64:02, 44:91, 44:132, 44:150, 52:26, 57:04, A*23:31, A*24:106, C*07:231, C*16:10 |
| 31 | 290 bp | 1070 bp | 15, 22, 62, 63, 71, 72, 75, 76, 77, 46 | *15:01:01:01-15:01:03, 15:01:06-15:02:05, 15:03:03- 15:08, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01- 15:17:02, 15:19-15:21, 15:24-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75- 15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101- 15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135- 15:150, 15:152, 15:154-15:155, 15:157, 15:159-15:160, 15:162-15:172, 15:174-15:175, 15:177-15:179, 15:181N- 15:185, 15:187-15:196, 15:199, 15:201-15:209N, 15:211, 15:213-15:219, 15:223-15:225, 15:227-15:228, 15:230- 15:234, 15:236-15:237, 15:239-15:241, 15:244, 46:01:01- 46:30, C*07:02:30, C*08:16:02 |
| 32 | 165 bp, 220 bp, 330 bp | 1070 bp | 5, 8, 12, 21, 22, 37, 41, 42, 44, 45, 48, 51, 56, 57, 60, 62, 70, 71, 72, 82 | *08:01:01-08:05, 08:08N-08:12:03, 08:15-08:19N, 08:21- 08:24, 08:26-08:27, 08:29-08:36, 08:38-08:39, 08:41- 08:48, 08:50-08:54, 08:56-08:69, 08:71-08:73, 08:75- 08:76, 08:78, 08:80-08:86N, 08:88, 13:46, 15:03:01- 15:03:03, 15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61- 15:62, 15:64, 15:69, 15:72, 15:74, 15:80, 15:83, 15:90- 15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131- 15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197-15:198, 15:200, 15:210, 15:212, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242-15:243, 35:87, 37:12, 38:30, 40:12, 40:136, 41:01- 41:03:02, 41:05-41:09, 41:11-41:17, 41:19-41:20, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 44:14-44:15, 44:18, 44:20, 44:62, 44:100, 45:01-45:14, 51:08, 51:20, 51:36, 51:44N, 51:97, 52:19, 55:20, 55:56, 56:13, 57:09, 82:01-82:03, C*07:46 |

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| | | | | |
|-----------------------------|------------------------------|---------------|---|---|
| 33 ^{8,9,11} | 165 bp, 190 bp, 390 bp | 1070 bp | 5, 17, 21, 35, 51, 5102, 5103, 52, 56, 62, 63, 70, 78 | *15:01:02, 15:09, 15:16:01-15:17:02, 15:67, 15:95, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:243, 35:01:10, 35:04:02, 40:26, 40:28, 44:62, 49:18, 50:14, 51:01:01-51:01:03, 51:01:05-51:02:03, 51:02:05- 51:09:02, 51:11N-51:12, 51:13:02-51:14, 51:16-51:23, 51:24:03-51:24:04, 51:26-51:33, 51:37-51:41N, 51:43- 51:44N, 51:46, 51:48-51:61:01, 51:63-51:80, 51:82-51:91, 51:94-51:98N, 51:100-51:130, 52:01:01:01-52:01:04, 52:01:06-52:13, 52:15-52:24, 52:26-52:29, 56:05:01- 56:06, 56:21, 58:08:01-58:08:02, 78:01:01-78:07 |
| 34 | 180 bp | 800 bp | 13, 22, 55, 60 | *07:78, 13:01:01-13:02:12, 13:07N-13:09, 13:11, 13:14- 13:20, 13:22:01-13:23, 13:25, 13:27-13:34, 13:36-13:45, 13:47, 13:49N-13:50, 13:52, 13:54, 40:48, 45:10, 49:07, 54:26, 55:09, 55:22, 55:24 |
| 35 ⁶ | 105 bp, 195 bp | 1070 bp | 8, 12, 27, 38, 39, 3902, 40, 44, 45, 48, 60, 70, 71, 72, 82 | *07:27, 07:50, 08:04, 08:17, 08:54, 15:03:01-15:03:03, 15:47:01-15:47:02, 15:49, 15:54, 15:61-15:62, 15:64, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 18:37, 27:18, 27:29, 37:28, 38:03, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:23, 39:39:01-39:39:02, 39:49, 40:12, 40:46, 40:93, 42:11, 44:10, 44:15, 44:18, 44:40, 44:44, 44:130, 44:140, 45:01, 45:05-45:07, 45:11-45:14, 48:01:01-48:05, 48:07-48:27, 49:20, 50:02, 52:16, 55:18, 82:01-82:03 |
| 36 | 280 bp | 1070 bp | 5, 7, 8, 13, 15, 16, 17, 18, 22, 35, 40, 42, 44, 46, 48, 49, 51, 53, 55, 56, 57, 58, 60, 61, 62, 63, 70, 71, 72, 75, 76, 77, 78 | *07:09, 07:11, 07:17, 08:28, 08:35, 08:37, 13:04, 13:10, 13:26, 15:01:01:01-15:01:04, 15:01:06-15:08, 15:11:01- 15:16:03, 15:18:01-15:21, 15:23-15:29, 15:31-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47:02, 15:49- 15:57, 15:60-15:62, 15:64-15:72, 15:74-15:76, 15:78:01- 15:82, 15:84-15:85, 15:87-15:89, 15:91-15:98, 15:101- 15:129, 15:131-15:132, 15:134-15:136, 15:138-15:149N, 15:151-15:161, 15:163-15:167, 15:169-15:176, 15:178- 15:187, 15:189-15:195, 15:197-15:207, 15:209N-15:215, 15:217-15:223, 15:225-15:228, 15:231-15:232, 15:234- 15:242, 15:244, 18:01:01:01-18:15, 18:17N-18:25, 18:27- 18:40, 18:42-18:60, 18:62-18:71, 27:41, 35:01:01:01- 35:01:31, 35:05:01-35:05:02, 35:07-35:08:05, 35:10- 35:11:02, 35:14:01-35:17, 35:19-35:21, 35:23-35:30, 35:32:01-35:32:02, 35:35, 35:37, 35:40N-35:43:01, 35:45- 35:54, 35:57-35:58, 35:61-35:64, 35:66-35:69, 35:71- 35:72, 35:76-35:80, 35:82, 35:86, 35:89-35:94, 35:97, 35:99-35:105, 35:107-35:108:02, 35:110-35:126, 35:130N- 35:135, 35:137-35:148, 35:158-35:159, 35:161, 35:165N- 35:166, 35:168, 35:170-35:171, 35:173N-35:178, 35:180, 35:185-35:192, 35:194, 35:196-35:197, 35:200, 39:07, 39:43, 40:03, 40:20, 40:38, 40:52, 40:59-40:60, 40:105, 40:158-40:159, 42:09, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 46:01:01-46:10, 46:12-46:17, 46:19-46:30, 48:02:01-48:02:02, 48:14, 48:23, 48:25, 49:04-49:05, 51:37, 51:45, 51:63, 51:97, 53:01:01-53:03, 53:05-53:06, 53:08:01-53:18, 53:20-53:27, 54:06, 54:09, 54:14, 55:14, |

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|-----------------------|------------------------------|---------------|--|---|
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| 37 | 195 bp | 1070 bp | 27, 35, 37, 44, 58, 76 | *15:12, 15:14, 15:19, 15:91, 15:131, 15:161, 18:54, 18:56, 35:45, 35:71, 37:01:01-37:09, 37:12-37:13, 37:15-37:21, 37:23-37:28, 37:30N-37:33N, 38:17, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 46:17, 53:22, 58:07, A*24:174 |
| 38⁶ | 105 bp, 395 bp, 435 bp | 1070 bp | 5, 7, 15, 41, 42, 62, 63, 70, 71, 75, 77 | *07:04, 07:25, 07:146, 15:09-15:10:02, 15:13:01-15:13:02, 15:16:01-15:18:04, 15:21, 15:23-15:24, 15:37, 15:44, 15:51-15:52, 15:66-15:67, 15:72, 15:80, 15:87, 15:90, 15:93, 15:95, 15:99, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:157, 15:161-15:162, 15:168, 15:176-15:177, 15:186, 15:189, 15:196-15:198, 15:200, 15:208, 15:216, 15:221-15:222, 15:226N, 15:229-15:230, 15:238, 15:243, 40:136, 41:08, 42:05:01-42:05:02 |
| 39⁶ | 115 bp, 150 bp | 1070 bp | 18 | *18:01:01:01-18:15, 18:17N-18:28, 18:30-18:71 |
| 40⁶ | 80 bp | 1070 bp | 7, 27, 2708, 44, 60 | *07:73, 08:88, 27:01-27:21, 27:23-27:51, 27:53-27:66N, 27:68-27:74, 27:76-27:89, 38:22, 40:46, 40:93, 44:40, 44:44, 44:130 |
| 41 | 150 bp | 800 bp | 12, 13, 17, 18, 22, 27, 35, 37, 39, 44, 45, 47, 48, 51, 53, 56, 57, 58, 62, 70, 75, 77, 78 | *08:49, 13:01:01-13:01:06, 13:06-13:07N, 13:12-13:13, 13:17, 13:20, 13:22:01-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 14:10, 15:02:01-15:02:05, 15:13:01-15:13:02, 15:20-15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:88-15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 18:22, 18:69, 27:19, 27:30, 35:01:01:01-35:04:03, 35:06-35:08:05, 35:10-35:17, 35:19-35:21, 35:23-35:30, 35:33-35:36, 35:38-35:42:02, 35:45-35:50, 35:52, 35:54-35:57, 35:59, 35:61-35:63, 35:65Q, 35:69-35:71, 35:74, 35:76-35:78, 35:80-35:85, 35:90-35:96, 35:98, 35:100-35:101:02, 35:103-35:113, 35:115-35:116, 35:120-35:126, 35:128-35:134N, 35:136-35:150, 35:152-35:173N, 35:175-35:184, 35:186-35:198, 35:200, 37:01:01-37:01:07, 37:03N-37:06, 37:08, 37:10-37:11, 37:13-37:33N, 38:20, 39:42, 40:28, 44:02:01:01-44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46, 44:48-44:52N, 44:55-44:64:02, 44:66-44:98, 44:101-44:105, 44:107-44:134, 44:136-44:137, 44:139-44:152, 48:02:01-48:02:02, 48:25, 51:04, 51:42, 51:46, 51:56:01-51:56:02, 53:01:01-53:13, 53:15-53:27, 55:14, 56:09, 56:11-56:12, 57:01:01-57:01:04, 57:01:06-57:10, 57:12, 57:14-57:20, 57:22-57:30, 57:32-57:46, 57:48-57:57, 58:01:01-58:01:02, 58:01:04-58:01:11, 58:04-58:05, 58:09-58:15, 58:17N, 58:19, 58:21-58:24, 58:28-58:36, 83:01, C*03:102 |

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| 42 | 135 bp | 1070 bp | 8, 18, 22, 35, 39, 78 | *07:65, 07:134, 08:32, 15:202, 15:239, 18:01:01:01-18:08, 18:10-18:15, 18:17N-18:36, 18:38-18:47, 18:50-18:53, 18:55-18:65, 18:68-18:71, 35:01:01:01-35:03:02, 35:03:04-35:08:04, 35:09:01-35:18, 35:20:01-35:24:02, 35:28-35:45, 35:48, 35:50-35:55, 35:57-35:62, 35:64- 35:72, 35:74-35:153, 35:155-35:197, 35:199-35:200, 37:11, 39:19:01-39:19:02, 40:185, 56:06, 78:01:01-78:05, 78:07 |
| 43^{6,10} | 60 bp, 245 bp, 400 bp | 1070 bp | 5, 15, 44, 48, 60, 62, 63, 70, 71, 72, 75, 76, 77, 82 | *15:01:01:01-15:01:04, 15:01:06-15:21, 15:23-15:40, 15:42-15:58, 15:60-15:67, 15:69-15:99, 15:102-15:129, 15:131-15:179, 15:181N-15:235, 15:237-15:244, 40:12, 82:01-82:03 |
| 44¹⁰ | 210 bp | 800 bp | 27, 37 | *07:27, 08:49, 18:54, 37:01:01-37:33N, 38:17 |
| 45 | 170 bp | 800 bp | 16, 35, 38, 39, 3901, 3902, 67, 72 | *08:55, 15:69, 15:186, 35:35, 38:01:01-38:09, 38:11- 38:21, 38:23-38:29, 38:31-38:35, 38:38-38:40, 39:01:01:01-39:01:01:02L, 39:01:03-39:20, 39:22- 39:24:02, 39:26-39:29, 39:31, 39:35, 39:37-39:42, 39:44- 39:46, 39:48-39:49, 39:51-39:73, 40:184, 51:101, 58:20, 67:01:01-67:03, C*15:51 |
| 46⁶ | 110 bp | 1070 bp | 38 | *38:01:01-38:02:02, 38:03, 38:05, 38:08-38:24, 38:26- 38:34N, 38:36-38:40, 52:01:10 |
| 47 | 395 bp | 1070 bp | 14, 16, 38, 39, 3901, 64, 65 | *07:69, 07:85, 08:65, 14:01:01-14:20, 14:22-14:32, 38:01:01-38:02:03, 38:04-38:05, 38:08-38:25, 38:27- 38:40, 39:01:01:01-39:01:01:02L, 39:01:03-39:01:12, 39:03-39:07, 39:09, 39:11-39:12, 39:14-39:15, 39:18- 39:19:02, 39:22, 39:24:01-39:38Q, 39:40N-39:48, 39:50- 39:57, 39:59-39:62, 39:64-39:73 |
| 48 | 160 bp, 425 bp | 1070 bp | 7, 703, 8, 14, 15, 16, 21, 39, 3901, 3902, 40, 41, 42, 45, 48, 50, 60, 61, 64, 65, 67, 70, 73, 81 | *07:02:01-07:26, 07:28-07:35, 07:37, 07:39-07:64, 07:66- 07:80, 07:82-07:148, 07:150-07:154, 08:01:01-08:01:17, 08:04-08:05, 08:07-08:35, 08:37-08:51, 08:53-08:77, 08:79-08:88, 14:01:01-14:02:04, 14:02:06-14:29, 14:31- 14:32, 27:14, 27:81, 39:01:01:01-39:01:01:02L, 39:01:03- 39:20, 39:22-39:24:01, 39:25N-39:73, 40:01:01-40:01:24, 40:06:01:01-40:06:04, 40:07, 40:09 [?] , 40:11:01 [?] -40:11:02 [?] , 40:14:01 [?] -40:15 [?] , 40:16, 40:18 [?] , 40:21 [?] -40:22N [?] , 40:23, 40:24 [?] -40:38 [?] , 40:42 [?] -40:43 [?] , 40:44, 40:45 [?] -40:46 [?] , 40:48 [?] -40:50 [?] , 40:51, 40:52 [?] , 40:53, 40:54 [?] -40:58 [?] , 40:59- 40:60, 40:61 [?] -40:65 [?] , 40:66, 40:67 [?] -40:69 [?] , 40:70, 40:71 [?] , 40:72:01-40:73, 40:74 [?] , 40:75, 40:77, 40:78 [?] , 40:79, 40:80 [?] -40:82 [?] , 40:83, 40:84 [?] -40:85 [?] , 40:86, 40:87:01 [?] - 40:88 [?] , 40:90 [?] -40:92 [?] , 40:93, 40:95 [?] , 40:96, 40:98 [?] - 40:102 [?] , 40:103, 40:104 [?] -40:108 [?] , 40:109-40:110, 40:111 [?] -40:116 [?] , 40:118N [?] -40:121 [?] , 40:123 [?] , 40:124:01, 40:124:02 [?] -40:126 [?] , 40:127, 40:128 [?] -40:130 [?] , 40:131, 40:132 [?] -40:134 [?] , 40:136 [?] -40:137 [?] , 40:138-40:140, 40:141 [?] , 40:145 [?] , 40:146-40:148, 40:149 [?] , 40:150, 40:151 [?] , 40:152-40:153, 40:154 [?] , 40:155N, 40:156 [?] , 40:158 [?] , 40:159, 40:160 [?] , 40:161-40:162, 40:163 [?] -40:164 [?] , 40:165, 40:166 [?] , 40:167, 40:168 [?] -40:171 [?] , 40:172, |

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| 49¹² | 180 bp | 1070 bp | 15, 40, 44, 48, 60, 62, 71 | *15:116, 15:124, 40:01:01-40:01:06, 40:01:08-40:01:17, 40:01:19-40:01:24, 40:07, 40:10:01-40:10:02, 40:12, 40:21-40:23, 40:25, 40:30, 40:33-40:34, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:51-40:52, 40:54-40:55, 40:59-40:63, 40:65-40:67, 40:69, 40:73-40:74, 40:76, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:112-40:114, 40:116-40:118N, 40:123-40:126, 40:128, 40:130, 40:132, 40:134-40:135, 40:137-40:141, 40:146-40:147, 40:149-40:156, 40:160, 40:163, 40:166, 40:168, 40:170-40:172, 40:175, 40:178-40:179, 40:182-40:183, 40:185-40:188, 40:191, 40:193, 44:31, 46:06, 48:03:01-48:03:02, 48:17, 48:23, C*03:129 |
| 50^{10,16} | 290 bp, 465 bp | 1070 bp | 21, 4005, 41, 50, 60, 61 | *13:02:06, 13:26, 15:16:03, 15:20, 15:85, 15:194, 18:48, 35:46, 40:02:01-40:06:05, 40:08, 40:09 [?] , 40:10:02 [?] -40:11:02 [?] , 40:13, 40:14:01 [?] -40:15 [?] , 40:18 [?] -40:19 [?] , 40:20, 40:22N [?] , 40:24 [?] -40:38 [?] , 40:39, 40:42 [?] -40:45 [?] , 40:47 [?] -40:50 [?] , 40:52 [?] -40:58 [?] , 40:61 [?] -40:65 [?] , 40:67 [?] -40:69 [?] , 40:70, 40:71 [?] , 40:72:02 [?] , 40:74 [?] -40:76 [?] , 40:78 [?] , 40:80 [?] -40:82 [?] , 40:84 [?] -40:88 [?] , 40:89, 40:90 [?] -40:92 [?] , 40:94, 40:95 [?] -40:96 [?] , 40:97, 40:98 [?] -40:121 [?] , 40:122, 40:123 [?] , 40:124:02 [?] -40:136 [?] , 40:141 [?] , 40:142N-40:144N, 40:145 [?] , 40:148 [?] -40:149 [?] , 40:151 [?] , 40:154 [?] , 40:156 [?] -40:169 [?] , 40:171 [?] , 40:173 [?] -40:176 [?] , 40:178 [?] -40:184 [?] , 40:187 [?] -40:193 [?] , 46:01:07, 47:01:01:01-47:08, 57:05, 58:36 |
| 51⁶ | 105 bp | 1070 bp | 7, 8, 22, 41, 42 | *07:04, 07:25, 07:146, 08:01:01-08:05, 08:07-08:12:03, 08:14-08:19N, 08:21-08:24, 08:26-08:39, 08:41-08:54, 08:56-08:69, 08:71-08:78, 08:80-08:88, 35:87, 40:136, 41:01-41:08, 41:10-41:20, 42:01:01-42:02, 42:04-42:07, 42:09-42:16, 55:20 |
| 52 | 325 bp | 800 bp | 7, 22, 27, 2708, 35, 42, 45, 46, 54, 55, 56, 67, 73, 78, 81, 82 | *07:02:01-07:02:32, 07:04-07:07, 07:09-07:15, 07:17-07:26, 07:28-07:31, 07:33-07:36, 07:39-07:46, 07:47 ^w , 07:48-07:49N, 07:51-07:68:03, 07:70-07:84, 07:86-07:154, 14:21, 15:76, 15:101, 27:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:89, 35:76, 35:186, 38:26, 40:166, 42:01:01-42:02, 42:04-42:06, 42:08-42:10, 42:12-42:16, 44:90, 44:97, 45:06, 46:01:01-46:01:07, 46:02 ^w , 46:03-46:30, 54:01:01-54:26, 55:01:01-55:05, 55:07-55:17, 55:19-55:56, 56:01:01-56:16, 56:18-56:22, 56:24-56:32, 56:34-56:35, 67:01:01-67:03, 73:01-73:02, 81:01-81:05, 82:01-82:03, 83:01 |

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| 53^{6,8} | 115 bp, 195 bp, 225 bp, 260 bp | 1070 bp | 35, 37, 44, 47, 57 | *08:49, 08:60, 08:76, 08:87, 35:38, 35:45, 35:71, 35:115, 35:169, 37:01:01-37:01:07, 37:03N-37:06, 37:08, 37:10-37:33N, 40:132, 40:178, 42:13, 44:02:01:01-44:14, 44:16-44:17, 44:19N-44:36, 44:38-44:63, 44:65-44:134, 44:136-44:149N, 44:151-44:152, 51:42, 53:22, 57:07, 57:09, 57:24, 83:01, C*15:25 |
| 54 | 215 bp | 800 bp | 5, 8, 12, 17, 21, 22, 41, 42, 44, 45, 51, 5103, 52, 53, 56, 62 | *08:09, 08:84, 13:46, 15:83, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20, 42:04, 44:06, 44:15, 44:18, 44:20, 44:100, 45:01-45:14, 51:01:01, 51:01:03- 51:01:08, 51:01:10-51:02:01, 51:02:03-51:04, 51:06:01- 51:07:01, 51:08-51:09:01, 51:10-51:14, 51:16-51:24:04, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:88, 51:90-51:92, 51:94-51:102, 51:104-51:115, 51:117- 51:118N, 51:120-51:131, 52:01:02, 52:01:04, 52:01:09, 52:02-52:03, 52:06:01-52:06:02, 52:09, 52:19, 52:21, 53:06, 55:20, 55:56, 56:13, 58:08:01 |
| 55 | 130 bp, 270 bp | 800 bp | 17, 18, 22, 35, 37, 46, 51, 53, 62, 78 | *14:10, 15:57 ^w , 18:22, 18:69, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 37:04:01- 37:04:02, 40:28, 46:01:01-46:30, 51:04, 51:46, 51:56:01- 51:56:02, 53:02, 53:06, 57:14, 58:09, C*15:39 |
| 56^{6,13} | 90 bp, 410 bp | 1070 bp | 15, 22, 27, 35, 47, 54, 55, 56, 78, 81, 82 | *07:65, 27:01 ^w , 27:02:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:89, 35:76, 35:186, 44:90, 44:97, 47:01:01:01-47:03, 47:06-47:08, 54:01:01-54:26, 55:01:01-55:05, 55:07-55:17, 55:19-55:56, 56:01:01- 56:16, 56:18-56:22, 56:24-56:32, 56:34-56:35, 81:01, 82:01-82:03, 83:01 |
| 57⁶ | 90 bp, 175 bp | 1070 bp | 15, 27, 35, 48, 60, 62, 75, 77, 81 | *13:36, 15:02:01-15:02:05, 15:08, 15:11:01-15:11:05, 15:13:01-15:13:02, 15:15, 15:21, 15:31, 15:44, 15:55, 15:76 ^w , 15:88-15:89, 15:112, 15:121, 15:139, 15:144, 15:148, 15:170, 15:189, 15:191, 15:194, 15:209N, 15:213- 15:215, 15:223, 27:24, 35:46, 40:31, 40:45, 40:80, 48:01:01-48:01:03, 48:04, 48:06-48:07, 48:09, 48:11, 48:15-48:16, 48:18-48:20, 48:22, 48:24, 48:27, 81:01- 81:05 |
| 58 | 145 bp, 430 bp | 1070 bp | 44, 49, 59, 61 | *40:13, 40:19, 40:109, 40:117, 44:18, 44:25, 44:50, 44:95, 49:01:01-49:01:03, 49:04-49:20, 51:112, 54:12, 56:21, 57:45, 57:51, 59:01:01:01-59:05 |
| 59⁶ | 120 bp, 210 bp | 800 bp | 5, 13, 15, 17, 22, 35, 45, 49, 50, 51, 5102, 5103, 52, 55, 56, 62, 63, 78 | *07:78, 07:84, 13:16, 13:31 ^w , 13:48, 15:04 ^w , 15:16:01- 15:16:03, 15:42, 15:67, 15:95, 15:137 ^w , 40:95, 40:148, 40:161, 49:01:01, 49:01:03-49:10, 49:12-49:20, 50:01:01- 50:02, 50:04-50:11, 50:13-50:16, 51:01:01-51:03, 51:05, 51:07:01-51:09:02, 51:11N-51:14, 51:16-51:24:04, 51:26- 51:41N, 51:43-51:44N, 51:48-51:55, 51:57-51:58, 51:60, 51:61:01 ^w , 51:63, 51:65-51:80, 51:82-51:131, 52:01:01:01- 52:29, 54:20, 55:01:01-55:01:06, 55:01:08-55:01:09, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21 ^w , 55:24- 55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:55N, 56:05:01-56:06, 56:21, 56:25, 58:08:01-58:08:02, 78:01:01-78:07 |

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| 60 | 430 bp | 1070 bp | 5, 17, 27, 44, 51, 5102, 5103, 52, 53, 57, 58, 61 | *18:67, 27:02:01-27:02:02, 27:30, 27:53, 27:57, 27:62, 27:65N, 27:75, 27:77, 27:83, 40:13, 40:19, 40:109, 40:117, 44:06, 44:25, 44:50, 44:95, 51:01:01-51:24:04, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:131, 52:01:01:01-52:19, 52:21-52:29, 53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:27, 57:01:01-57:11, 57:13-57:57, 58:01:01-58:02, 58:04-58:16, 58:18-58:36 |
| 61 | 145 bp | 1070 bp | 12, 21, 35, 40, 4005, 41, 45, 47, 50, 60, 61 | *07:133, 15:46, 15:53, 15:106, 15:143, 15:212, 18:48, 35:19, 35:47, 35:63, 35:154, 39:69, 40:01:01-40:11:02, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:40, 40:42-40:45, 40:48-40:75, 40:77-40:92, 40:94-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:136, 40:138-40:156, 40:158-40:184, 40:186-40:187, 40:189-40:193, 41:01-41:04, 41:05 [?] , 41:06-41:20, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01-45:14, 47:02, 47:03 ^w , 50:01:01-50:02, 50:04-50:05, 50:07-50:16 |
| 62 | 300 bp | 1070 bp | 7, 12, 13, 15, 17, 18, 21, 27, 2708, 35, 37, 38, 39, 3902, 40, 4005, 41, 44, 45, 47, 48, 49, 50, 52, 60, 61, 62, 70, 72, 76 | *07:54, 07:123, 08:17, 08:38, 08:54, 13:01:01-13:04, 13:06, 13:08Q-13:23, 13:25-13:35, 13:37-13:54, 15:01:01:01-15:01:04, 15:01:06-15:01:18, 15:01:20-15:01:28, 15:03:01-15:07:02, 15:12, 15:14, 15:19-15:20, 15:24-15:27:03, 15:30, 15:32-15:36, 15:38:01-15:40, 15:42-15:43, 15:45-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:63, 15:65-15:66, 15:68-15:71, 15:73-15:75, 15:77-15:79N, 15:81-15:87, 15:91-15:92, 15:94N, 15:96-15:98, 15:101-15:107, 15:109-15:111N, 15:113, 15:116-15:118, 15:122-15:123, 15:125-15:129, 15:131-15:132, 15:135-15:138, 15:140-15:142, 15:145-15:147, 15:150-15:152, 15:154-15:160, 15:163-15:167, 15:169, 15:171-15:175, 15:178-15:179, 15:181N-15:185, 15:187-15:188, 15:190N, 15:192-15:193, 15:195, 15:199, 15:201-15:207, 15:210-15:212, 15:217-15:220, 15:224-15:225, 15:227-15:228, 15:231-15:237, 15:239-15:244, 18:12, 27:01-27:21, 27:24-27:89, 35:10, 35:13, 35:16, 35:28, 35:63, 35:69, 35:80, 37:01:01-37:07, 37:09-37:33N, 38:03-38:04, 38:25, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:22-39:23, 39:49, 40:01:01-40:07, 40:09-40:16, 40:18-40:24, 40:26-40:40, 40:42-40:67, 40:70-40:105, 40:107-40:165, 40:167-40:193, 41:01-41:20, 42:11, 44:02:01:01-44:02:21, 44:02:23-44:05:03, 44:07-44:11, 44:13-44:152, 45:01-45:14, 47:01:01:01-47:08, 48:01:01-48:05, 48:07-48:15, 48:17-48:27, 49:01:01-49:20, 50:01:01-50:02, 50:04-50:14, 50:16, 52:01:01:01-52:29, 53:17:01-53:17:02, 55:18, 55:34, 55:40, 78:05-78:06 |
| 63⁸ | 160 bp, 330 bp | 1070 bp | 22, 44, 45, 47, 54 | *08:87, 44:02:01:01-44:02:24, 44:06, 44:08-44:09, 44:11-44:12, 44:16, 44:19N-44:24, 44:27:01-44:27:02, 44:33-44:34, 44:41:01-44:41:02, 44:44, 44:48-44:49, 44:52N-44:53, 44:55, 44:59, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:83-44:84, 44:86-44:87, 44:89-44:91, 44:93, 44:95, 44:97, 44:99-44:102, 44:104, 44:106, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01-44:127, 44:131-44:132, 44:137-44:138Q, 44:142Q, 44:145, |

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| | | | | 44:148-44:149N, 44:151-44:152, 54:01:01, 54:02-54:26, 83:01 |
| 64 | 180 bp, 210 bp | 1070 bp | 13, 15, 18, 35, 39, 40, 54, 55, 56, 59, 78 | *07:65, 13:06, 13:53, 15:42, 15:86, 15:224, 18:04, 35:08:05, 35:42:02, 35:60, 35:185, 39:17, 39:63, 40:01:11, 40:58, 45:08, 46:18, 54:01:01-54:02, 54:05N, 54:07- 54:08N, 54:10, 54:12-54:13, 54:16-54:25, 55:01:01-55:03, 55:05, 55:07, 55:10-55:12, 55:15-55:16, 55:18-55:19, 55:21, 55:25-55:26, 55:29-55:31, 55:33-55:45, 55:47- 55:48, 55:50, 55:52-55:56, 56:05:01, 56:06, 56:10, 56:23, 59:01:01:01-59:01:01:02, 59:05, 78:01:01-78:01:02, 78:02:02-78:03, 78:07, C*15:02:04 |
| 65 | 180 bp | 1070 bp | 12, 15, 21, 22, 44, 45, 49, 50, 51, 56, 61, 62, 82 | *13:03, 13:48, 15:73, 40:71, 44:10, 44:15, 44:18, 44:140, 45:01, 45:04-45:07, 45:11-45:14, 46:11, 49:01:01-49:03, 49:06, 49:08-49:17, 49:19N-49:20, 50:01:01-50:02, 50:04- 50:08, 50:10-50:13, 50:15-50:16, 51:15, 51:62, 51:106, 52:25, 54:03, 56:01:01-56:02, 56:04, 56:07-56:08, 56:13- 56:14, 56:16-56:17, 56:20:01-56:20:02, 56:24-56:30, 56:33-56:35, 59:04, 82:01-82:03, C*03:12, C*03:19, C*03:102 |
| 66⁶ | 90 bp, 240 bp | 800 bp | 57 | *55:14, 57:01:01-57:44, 57:46-57:50, 57:52-57:57, 58:36, C*06:72 |
| 67^{6,13} | 90 bp | 1070 bp | 5, 13, 15, 17, 39, 55, 56, 58, 60, 61, 62, 71 | *13:11, 15:18:03, 15:73, 15:224, 39:17, 40:48, 40:71, 51:62, 56:02, 56:04, 56:10, 58:01:01-58:02, 58:04-58:35, C*02:06^w, C*02:47^w |
| 68⁶ | 95 bp | 1070 bp | 8, 18, 22, 35, 37, 38, 39, 44, 51, 5102, 5103, 53, 78 | *07:65 ^w , 07:134 ^w , 08:32, 18:01:01:01-18:11, 18:13-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:71, 35:01:01:01-35:08:04, 35:09:01-35:09:03, 35:11:01- 35:12:03, 35:14:01-35:15, 35:17-35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 35:64- 35:68:02, 35:70-35:72, 35:74-35:75, 35:76 ^w , 35:77-35:79, 35:81-35:153, 35:155-35:185, 35:187-35:190, 35:192- 35:197, 35:199-35:200, 37:08, 38:06-38:07, 39:19:01- 39:19:02, 44:06, 51:01:01-51:24:04, 51:26-51:46, 51:48- 51:103, 51:105-51:111, 51:113-51:117, 51:119-51:131, 53:01:01-53:16, 53:18-53:27, 56:06 ^w , 78:01:01-78:04, 78:07 |
| 69^{6,10} | 115 bp, 150 bp | 1070 bp | 15, 18,22, 27, 35, 39, 46, 55, 62, 72, 73, 75, 76 | *07:100, 13:31, 13:41, 15:01:01:01-15:01:04, 15:01:06- 15:01:16, 15:01:18-15:01:28, 15:04, 15:07:01-15:08, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24, 15:26N-15:28, 15:30, 15:32, 15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:92, 15:94N, 15:96- 15:97, 15:101-15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, |

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| | | | | |
|------------------------|--------|---------------|---|---|
| | | | | 15:180-15:184, 15:187, 15:189-15:193, 15:201-15:203, 15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 15:239, 15:241, 15:244, 18:19, 27:25, 27:75, 35:14:01-35:14:02, 35:43:01-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 39:18, 39:36, 44:146, 46:01:01-46:02, 46:04-46:05, 46:07N, 46:09-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:27-46:30, 51:61:01, 52:21, 54:06, 55:21, 56:03, 73:01-73:02, A*26:68, A*68:56, C*02:56, C*06:20, C*12:50 |
| 70¹⁴ | 360 bp | 1070 bp | Bw4 | |
| 71 | 350 bp | 1070 bp | Bw6 | |
| 72 | 285 bp | 800 bp | 7, 703, 8, 35, 40, 41, 42, 48, 53, 60, 61, 81 | *07:02:01-07:06, 07:08-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:52, 07:54-07:59, 07:61-07:76, 07:79-07:83, 07:85-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:154, 08:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:13-08:15, 08:17-08:83, 08:85-08:88, 35:66, 35:87, 37:07, 40:15-40:16, 40:30-40:32, 40:34, 40:45, 40:59, 40:80, 40:98, 40:137, 40:160, 41:02:01-41:02:04, 41:04, 41:10-41:11, 41:13, 41:18-41:19, 42:01:01-42:02, 42:05:01-42:07, 42:09-42:13, 42:15-42:16, 44:150, 48:01:01-48:01:03, 48:05-48:12, 48:14-48:20, 48:22, 48:27, 53:15, 81:01-81:05 |

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

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

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The 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 25 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band. In addition, wells number 28 to 30, 34, 41, 44, 45, 52, 54, 55, 59, 66 and 72 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band.

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

³The serological reactivity of all HLA-B alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) **73:95-170** and the serological grouping of the sequence-defined allele.

⁴For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of

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the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

⁵The C*02:23 and C*04:77 alleles will be amplified by primer mix 25, the C*03:05, 03:25, 03:27 and 03:143 alleles will be amplified by primer mix 27, the C*01:30 allele will be amplified by primer mix 28, the A*23:31, A*24:106, C*07:231 and C*16:10 alleles will be amplified by primer mix 30, the C*07:02:30 and C*08:16:02 alleles will be amplified by primer mix 31, the C*07:46 allele will be amplified by primer mix 32, the A*24:174 allele will be amplified by primer mix 37, the C*03:102 allele will be amplified by primer mixes 41 and 65, the C*15:51 allele will be amplified by primer mix 45, the C*03:129 allele will be amplified by primer mix 49, the C*15:25 allele will be amplified by primer mix 53, the C*15:39 allele will be amplified by primer mix 55, the C*15:02:04 allele will be amplified by primer mix 64, the C*03:12 and 03:19 alleles will be amplified by primer mix 65, the C*02:06 and 02:47 alleles will be weakly amplified by primer mix 67 and the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles will be amplified by primer mix 69.

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

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

⁸Primer mixes 28, 29, 33, 53 and 63 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes.

⁹Primer mix 33 has pronounced tendencies of unspecific amplifications.

¹⁰Primer mixes 25, 43 and 44 have a tendency to giving rise to primer oligomer formation.

¹¹The B*57 and B*58 alleles might be faintly amplified by primer mix 33.

¹²The C*17:01 to C*17:04 alleles might be faintly amplified by primer mix 49.

¹³Primer mixes 56 and 67 may generate a false positive band of about 800 base pairs. This band should be disregarded when interpreting HLA-B low resolution typings.

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

¹⁵Primer mix 28 amplifies the B*15:143, 35:19, 40:170, 44:07 and 50:07 alleles in addition to the alleles specified in the table.

¹⁶Primer mix 50 amplifies the B*37:06:01 allele in addition to the alleles specified in the table. ‘w’, might be weakly amplified.

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

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SPECIFICITY TABLE

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

| Primer Mix | Size of spec. PCR product ¹ | Size of control band ² | DR serology ³ | Amplified HLA-DRB alleles ^{4,5} |
|----------------------------|--|-----------------------------------|--------------------------|---|
| 73 ^{7,9} | 205, 255 bp | 515 bp | 1 | *01:01:01-01:02:08, 01:04-01:38, 01:40N-01:45 |
| 74 | 200 bp | 430 bp | 103 | *01:03, 01:39N, 01:42 |
| 75 ⁷ | 200, 215 bp | 430 bp | 15 | *15:01:01-01-15:71 |
| 76 | 210 bp | 430 bp | 16 | *16:01:01-16:05:02, 16:07-16:19 |
| 77 ^{6,7,8} | 120, 220 bp | 430 bp | 3, 17, 18, 11 | *03:01:01-01-03:75, 03:77-03:81, 11:07, 11:53, 11:103, 11:105, 11:107, 11:125, 15:25 |
| 78 ^{6,7,8} | 80, 210 bp | 430 bp | 3, 17, 11, 13, 14 | *03:01:01-01-03:01:19, 03:04-01-03:06, 03:08-03:16, 03:18-03:20, 03:22-03:23, 03:25-03:26, 03:28, 03:30-03:31, 03:33-03:34, 03:36-03:37, 03:43-03:48, 03:50-03:52, 03:54-03:68N, 03:70-03:73, 03:75-03:81, 08:40, 11:02-01-11:03, 11:11-01-11:11:02, 11:14-01-11:14:02, 11:16, 11:20-11:21, 11:36, 11:40-11:41, 11:48, 11:59, 11:63, 11:65-01-11:65:02, 11:68, 11:70, 11:73, 11:76, 11:79-11:80, 11:83, 11:85-11:87, 11:93, 11:118, 11:122, 11:124, 13:01-01-13:04, 13:08, 13:10, 13:15-13:17, 13:19-13:20, 13:22-13:24, 13:27-13:29, 13:31-13:41, 13:43, 13:45, 13:48, 13:51-13:54, 13:57, 13:59, 13:61-01-13:61:02, 13:63-13:66:02, 13:68-13:76, 13:78-13:81, 13:83-13:85, 13:87-13:99, 13:101-13:102, 13:104-13:107, 13:109, 13:111-13:117, 13:120-13:131, 13:133, 13:135, 13:137N-13:139, 14:16, 14:19, 14:21, 14:82, 14:95, 14:109 |
| 79 ^{6,7} | 85, 210 bp | 430 bp | 3, 18, 11, 13, 14 | *03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74, 11:13-01 ^w -11:13:02 ^w , 11:26, 11:34, 13:15, 13:19, 13:26, 13:44, 13:53, 13:57, 13:85-13:86, 13:104, 14:02-14:03:02, 14:06-01-14:06:02, 14:09, 14:12-01-14:13, 14:17-14:21, 14:24, 14:27, 14:29-14:30, 14:32-01 ^w -14:32:02 ^w , 14:33, 14:40-14:41, 14:47-14:49, 14:51, 14:63, 14:65 ^w , 14:67, 14:77-14:78, 14:80-14:81, 14:83, 14:85, 14:89, 14:94, 14:98, 14:102, 14:106, 14:108-14:109, 14:115, 14:119, 14:121 |
| 80 ^{6,7,9} | 100, 175 bp | 430 bp | 3, 4 | *04:01:01-04:107 |
| 81 ⁷ | 210, 235 bp | 430 bp | 7, 13, 14 | *07:01:01-01-07:01:04, 07:03-07:22, 12:22, 13:17, 13:116, 14:50 |
| 82 ⁷ | 170, 215, 250 bp | 515 bp | 8, 12, 14 | *08:01:01-08:19, 08:21-08:49, 11:67, 12:04, 12:16-01, 12:22, 14:11, 14:15, 14:68, 14:93 |
| 83 ^{6,7} | 90, 135, 180 bp | 430 bp | 3, 9, 11 | *03:08, 03:65, 09:01-02-09:17, 11:07, 11:53, 11:103, 11:105, 11:107, 11:125 |

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| | | | | |
|-------------------------|-------------|--------|------------------------|---|
| 84 | 175 bp | 430 bp | 10 | *03:76, 10:01:01-10:04, 11:59, 11:80, 11:83, 11:87, 13:27, 13:41, 13:71, 13:129 |
| 85^{6,7} | 100, 170 bp | 430 bp | 11, 3, 8 | *03:08, 03:65, 08:31, 08:41, 11:01:01-11:70, 11:72-11:126 |
| 86^{6,7} | 85, 105 bp | 430 bp | 12, 8 | *08:32, 12:01:01-12:35 |
| 87⁹ | 215 bp | 430 bp | 6, 8, 11, 13, 14, 1403 | *03:76, 08:20-08:21, 11:01:01-11:04:08, 11:06:01-11:06:02, 11:08:01-11:12:02, 11:14:01-11:16, 11:18-11:21, 11:23-11:25, 11:27:01-11:33, 11:35-11:51, 11:54:01-11:54:02, 11:56-11:66, 11:68, 11:70, 11:72-11:81, 11:83-11:88, 11:90-11:97, 11:99-11:102:02, 11:106, 11:108-11:124, 11:126, 13:01:01-13:02:01, 13:02:03-13:08, 13:10-13:16, 13:18-13:43, 13:45-13:85, 13:87-13:115, 13:117-13:128, 13:130-13:139, 14:03:01-14:03:02, 14:12:01-14:12:02, 14:16, 14:19, 14:21-14:22, 14:25, 14:27, 14:40, 14:53, 14:63, 14:67, 14:69, 14:74, 14:77-14:78, 14:84-14:85, 14:98, 14:102, 14:105, 14:109, 14:115-14:116, DRB3*02:27 |
| 88^{7,9} | 195, 225 bp | 430 bp | 13, 8, 11, 12, 14 | *08:01:01-08:02:04, 08:04:01-08:09, 08:11, 08:16-08:17, 08:20-08:22, 08:24, 08:26, 08:28, 08:31, 08:39, 08:41-08:44, 11:01:01-11:06:02, 11:09-11:12:02, 11:14:01-11:16, 11:20-11:21, 11:23-11:25, 11:27:01-11:30, 11:32-11:33, 11:35-11:41, 11:43-11:44, 11:46:01-11:51, 11:54:01-11:56, 11:58:01-11:63, 11:65:01-11:70, 11:72, 11:74:01-11:78, 11:80-11:88, 11:90-11:97, 11:99-11:102:02, 11:106, 11:108-11:118, 11:120-11:124, 11:126, 12:02:01-12:02:05, 12:13, 12:15-12:16:01, 12:18-12:21, 12:23, 12:26-12:27, 12:31N-12:33, 13:01:01-13:02:01, 13:02:03-13:02:05, 13:04-13:05:02, 13:07:01-13:09, 13:11:01-13:11:02, 13:14:01-13:24, 13:26-13:29, 13:31-13:32, 13:34-13:36, 13:38-13:43, 13:45-13:55, 13:57, 13:59, 13:61:01-13:65, 13:67-13:76, 13:78-13:80, 13:83-13:84, 13:87, 13:91-13:93, 13:96:01-13:100, 13:102-13:109, 13:111-13:114, 13:116-13:117, 13:121, 13:123-13:132, 13:135-13:136, 13:138-13:139, 14:15-14:16, 14:22, 14:24-14:25, 14:27, 14:37, 14:53, 14:73, 14:105 |
| 89⁸ | 175 bp | 430 bp | 3, 13, 14, 8 | *03:01:01:01-03:07, 03:09, 03:11:01-03:41, 03:43-03:45, 03:47-03:63, 03:66-03:68N, 03:70-03:81, 08:20, 13:01:01-13:16, 13:18-13:42, 13:44, 13:46-13:66:02, 13:68-13:102, 13:104-13:115, 13:117-13:121, 13:123-13:139, 14:02-14:03:02, 14:05:01-14:06:02, 14:09, 14:12:01-14:14, 14:17-14:21, 14:23:01, 14:23:03-14:24, 14:27, 14:29-14:30, 14:33, 14:36-14:37, 14:40-14:45, 14:47-14:48, 14:51, 14:56, 14:59, 14:63-14:65, 14:67, 14:77-14:78, 14:80-14:81, 14:83-14:85, 14:89, 14:91, 14:94-14:96, 14:98, 14:100, 14:102-14:103, 14:106, 14:108-14:109, 14:115-14:116, 14:121, 14:123 |

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| | | | | |
|-----------------------------|---------------------|--------|-----------------------------|--|
| 90 ^{6,7} | 100, 140, 155 bp | 430 bp | 14, 4, 8, 13 | *04:62, 04:69, 04:73, 04:105, 08:08, 11:69, 11:82, 13:45, 14:01:01-14:01:02, 14:04, 14:07:01-14:07:02, 14:10, 14:16, 14:22, 14:25-14:26, 14:28, 14:31- 14:32:02, 14:35, 14:37-14:39, 14:49-14:50, 14:53- 14:54:01, 14:55, 14:57-14:58, 14:60-14:62, 14:68- 14:71, 14:73-14:76, 14:79, 14:82, 14:86-14:88, 14:90, 14:93, 14:99, 14:101, 14:104-14:105, 14:107, 14:110- 14:114, 14:117-14:120, 14:122, 14:124-14:125, DRB4*01:03:01:02N |
| 91 ^{6,7,10} | 110, 135, 170 bp | 430 bp | 14, 3, 9, 11, 12, 13, 15 | *03:10, 09:01:02-09:01:05, 09:01:07-09:02:02, 09:04- 09:17, 11:13:01-11:13:02, 11:17, 11:52, 13:43, 14:01:01-14:02, 14:04-14:11, 14:13-14:14, 14:16- 14:18, 14:19 ^w , 14:20, 14:21 ^w , 14:22-14:23:03, 14:26, 14:28-14:36, 14:38-14:39, 14:41, 14:43-14:52, 14:54:01-14:57, 14:59-14:62, 14:64-14:65, 14:68, 14:70-14:76, 14:79-14:83, 14:86-14:88, 14:90-14:97, 14:99-14:101, 14:103-14:108, 14:109 ^w , 14:110- 14:114, 14:117-14:125, 15:27, 15:34, 15:66 |
| 92 ^{6,7,9} | 110, 175, 225 bp | 430 bp | 14, 3, 8, 11, 13, 15, 16 | *03:10, 08:09, 08:20-08:21, 08:32, 08:35, 11:13:01- 11:13:02, 11:17, 11:23, 11:25, 11:31, 11:45, 11:52, 11:55, 11:64, 11:89, 11:96, 11:119, 13:13, 13:18, 13:43, 13:45, 13:47, 13:55, 13:119, 14:01:01- 14:01:03, 14:03:01-14:05:03, 14:07:01-14:08, 14:10- 14:12:02, 14:14-14:16, 14:18, 14:22-14:23:03, 14:25- 14:28, 14:31-14:32:02, 14:34-14:36, 14:38-14:40, 14:42-14:45, 14:49-14:50, 14:53-14:65, 14:67-14:79, 14:81-14:82, 14:84-14:93, 14:95-14:97, 14:99- 14:105, 14:107, 14:110-14:120, 14:122-14:125, 15:21 ^w , 16:04 ^w , 16:18 ^w |
| 93 ^{7,8} | 160, 240 bp | 430 bp | 52 | DRB3*01:01:02:01-01:15, DRB3*02:01-02:29N, DRB3*03:01:01-03:03 |
| 94 ^{9,11} | 215 bp | 430 bp | 53 | DRB4*01:01:01:01-01:08 |
| 95 | 175 bp | 430 bp | 51 | DRB5*01:01:01-01:14, DRB5*02:02-02:05 |
| 96 ¹² | | | | Negative control |

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

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers, e.g. the primers in wells 75 and 90 to 92.

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low

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amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 73 contains the primer pair giving rise to the longer, 515 bp, internal positive control band.

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

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

³The serological split of all DRB1 alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁴For several DRB alleles 1st and/or 3rd exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP set are completely matched with the target sequences or not. We assume that unknown sequences in the first hyperpolymorphic region of the second exon of DRB alleles are conserved within allelic groups and that unknown sequences of codons 87 to 92 are identical with the DRB1*01:01 consensus sequence.

⁵The DRB1*08:09 and the DRB1*14:15 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1*08:20 and the DRB1*13:18, 13:47 and 13:55 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1*08:31, 08:41 and DRB1*11:67 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1*13:13 and 13:119 and the DRB1*14:84 and 14:116 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁶HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁷Individual alleles can give rise to two differently sized specific PCR fragments in primer mixes 73, 75, 77 to 83, 85, 86, 88 and 90 to 93.

⁸Due to sharing of sequence motifs in codon 38, DRB3*01:14 will also be amplified in primer mixes 77, 78 and 89 in addition to primer mix 93.

⁹Primer mix 73, 80, 87, 88, 92 and 94 may have a tendency to giving rise to primer oligomer formation.

¹⁰Primer mix 91 has a tendency of primer oligomer formation and also has an intense primer cloud due to the high number of primers present in the primer mix.

¹¹The DRB4*01:03:01:02N allele is amplified by primer mix 94, whereas the DRB4*02:01N and DRB4*03:01N null alleles are not amplified by this primer mix.

¹²Primer mix 96 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

‘w’, might be weakly amplified.

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| INTERPRETATION TABLE | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| HLA-A low resolution SSP typing | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amplification patterns of the A*01:01 to A*80:02 alleles | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Well ⁶ | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Length of spec. | | 225 | 145 | 120 | | | | | | 75 | 85 | 80 | 125 | 175 | 100 | 90 | 240 | 140 | 200 | 160 | 220 | 240 | 85 | 75 | 360 |
| PCR product(s) | | 415 | 365 | 255 | 210 | | | | | | | 500 | 175 | 200 | 200 | 135 | 395 | 180 | | 200 | 245 | 375 | 240 | 160 | 495 |
| Length of int. | | 800 | 800 | 1070 | 800 | 800 | 800 | 1070 | 800 | | 800 | 1070 | 800 | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 800 | 800 | 800 | 800 | 800 | 1070 |
| pos. control ¹ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5'-primer(s) ² | | 5'-ATA ³ | 5'-AgT ³ | 5'-CCA ³ | 5'-ATA ³ | 5'-gCT ³ | 5'-gCT ³ | 5'-gCT ³ | 5'-gCT ³ | 5'-Agg ³ | 5'-AAC ³ | 5'-ggC ³ | 5'-gCT ³ | 5'-gCT ³ | 5'-CCg ³ | 5'-TAC ³ | 5'-AgC ³ | 5'-AgC ³ | 5'-CCT ³ | 5'-CCT ³ | 5'-CCT ³ | 5'-TgT ³ | 5'-TCT ³ | 5'-gCA ³ | 5'-ggC ³ |
| 3'-primer(s) ³ | | 5'-AgA ³ | 5'-gTg ³ | 5'-CCT ³ | 5'-CCg ³ | 5'-CCg ³ | 5'-Cag ³ | 5'-TCT ³ | 5'-CCA ³ | 5'-gGg ³ | 5'-TgT ³ | 5'-CTC ³ | 5'-gTg ³ | 5'-gAC ³ | 5'-gTC ³ | 5'-CCA ³ | 5'-CCA ³ | 5'-gTt ³ | 5'-gTC ³ | 5'-CCA ³ | 5'-gAC ³ | 5'-gAC ³ | 5'-CAC ³ | 5'-gAC ³ | 5'-TCT ³ |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |



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| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A allele⁴ | ser⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *01:01:01:01-01:01:22, 01:01:24-01:01:43, 01:02- 01:04N, 01:06-01:07, 01:09- 01:11N, 01:16N-01:18N, 01:20, 01:22N-01:27N, 01:29, 01:31N-01:33, 01:35- 01:50, 01:52N-01:78, 01:80- 01:82, 01:84-01:94, 01:96- 01:98, 01:100-01:104 | A1, Null, - | 1 | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *01:01:23, 01:08, 01:14- 01:15N, 01:30, 01:79, 01:99 | A1, Null, - | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| *01:01:44-01:01:45, 01:105- 01:109 | - | 1 | | | w | | | | | | | | | | | | | | | | | | | | |
| *01:12, 01:19 | A1, - | 1 | | 3 | | | | | | | | | | | | | | | | | | | | | |
| *01:13 | - | 1 | | 4 | | | | | | | 11 | | | 13 | | 15 | | | | | | | | | |
| *01:21 | - | 1 | | 3 | 4 | | | | | | | | | | | | | | | | | | | | |
| *01:28 | - | 1 | | 4 | | | | | | | 11 | | | | | 15 | | | | | | | | | |
| *01:51 | - | 1 | | 4 | | | | 8 | | 10 | | | | | | | | | | | | | | | |
| *01:83 | - | 1 | | 4 | | | | | | 10 | | | | | | | | | | | | | | | |
| *01:95 | - | 1 | | 4 | 5 | | | | | | | | | | | | | 17 | | | | | | | |
| *02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:16, 02:18-02:22:02, 02:24-01-02:33, 02:36-02:45, 02:47, 02:49-02:54, 02:57- 02:61, 02:63-02:69, 02:71- 02:77, 02:79:01-02:97:02, 02:99, 02:101:01-02:102, 02:104-02:128, 02:130- 02:134, 02:136-02:145, 02:147-02:168, 02:170- 02:236, 02:238-02:242, 02:244-02:308, 02:310- 02:337, 02:339-02:358 | A2, A203, A210, A19, Low A2, Null, - | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| *02:17:01-02:17:02 | A2 | | 2 | | | | | w | | | | | | | | | | | | | | | | | |
| *02:34-02:35:01, 02:35:03, 02:56:01-02:56:02, 02:62, 02:103 | A2, - | | 2 | | | | | | | | | | | 13 | | | | | | 20 | | 22 | | | |
| *02:35:02 | A2 | | | | | | | | | | | | | 13 | | | | | | 20 | | 22 | | | |
| *02:46, 02:70 | A2 | | 2 | | | | | | | | | | | | | | | | | 20 | | 22 | | | |
| *02:48, 02:129 | - | | | | | | | | | | | | | | | | | | | 20 | | 22 | | | |
| *02:55 | - | | 2 | | | | | 8 | | | | | | | | | | | | | | 21 | | 23 | |
| *02:78 | A2 | | w | | 4 | | | | | | | | | | | | | | | 20 | | 22 | | | |
| *02:135 | - | | 2 | | | | | | | | | | | 13 | | | | | | | | | | | 24 |
| *02:146 | - | | 2 | | | | | | | 10 | | | | | | | | | | | | | | | |
| *02:169 | - | | 2 | | 4 | | | | | | | | | | | | | | | | | | | | |
| *02:237 | - | | 2 | | | | | | | | | | | | 14 | | 16 | | | | | | | | |
| *02:243 | - | | 2 | | | | | | | | | | | | | | | 18 | | | 21 | | | | |
| *02:309 | - | | 2 | | | | | | | | | 12 | | 14 | | | | | | | | | | | 24 |
| *02:338 | - | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *03:01:01:01-03:01:02, 03:01:04-03:01:18, 03:01:20- 03:01:22, 03:01:24-03:07, 03:09-03:11N, 03:13- 03:17:01, 03:19-03:22:02, 03:23:02, 03:25-03:29, 03:31, 03:33-03:35, 03:37- 03:40, 03:42, 03:44-03:49, 03:51-03:56, 03:58, 03:60- 03:62, 03:64-03:71, 03:73- 03:74, 03:76-03:81, 03:83- 03:87, 03:90-03:94, 03:96- 03:106, 03:109-03:110, 03:112-03:134, 03:136- 03:141, 03:143 | A3, Null, - | | | 3 | | | | | | | | | | 13 | | | | | | | | | | | |
| *03:01:03, 03:09, 03:23:01 | A3, - | | w | 3 | | | | | | | | | | 13 | | | | | | | | | | | |
| *03:01:19 | - | | | 3 | | | | | | | | | 12 | 13 | | | | | | | | | | | 24 |
| *03:01:23, 03:08, 03:32, 03:36N, 03:57, 03:59, 03:72, 03:107, 03:111, 03:142 | Null, - | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| *03:12 | - | | | 3 | 4 | | | | | | | | | | | | | | | | | | | | |
| *03:18, 03:135 | - | 1 | | | 4 | | | | | | | | | 13 | | | | | | | | | | | |
| *03:24, 03:50 | A3, - | | | 3 | | | | | 8 | | | | | 13 | | | | | | | | | | | |
| *03:30 | - | | | 3 | | 5 | | | | | | | | 13 | | | | | | | | | | | |
| *03:41 | - | | | 3 | | | | | | | | | | | | | | | | | | | | | 23 |
| *03:43, 03:82 | - | | | 3 | | | | | | | | | | 13 | | 15 | | 17 | | | | | | | |
| *03:63 | - | | | 3 | | | | | | | | 11 | | 13 | | | | | | | | | | | 23 |
| *03:75 | - | | | | | | | | | | | | | 13 | | | | | | | | | | | 23 |
| *03:88 | - | | | 3 | 4 | | | | | | | 11 | | | | | | | | | | | | | 23 |
| *03:89, 03:108 | - | | w | 3 | | | | | | | | | | | | | | | | | | | | | |
| *03:95 | - | | | | | | | | | | | | | 13 | 14 | | 16 | | | | | | | | |
| *11:01:01-11:05, 11:07- 11:09, 11:12-11:17, 11:19- 11:24:02, 11:26-11:27, 11:29- 11:52Q, 11:54-11:59, 11:61- 11:93, 11:95-11:111, 11:114- 11:120-11:122 | A11, Null, - | | | | 4 | | | | | | | | 11 | | | | | | | | | | | | |
| *11:06, 11:18, 11:121 | A11, - | | | | 4 | | | | | | | | 11 | | | | | | | | | | | | |
| *11:10 | A11 | | | | 4 | | | | 8 | | | | 11 | | | | | | | | | | | | |
| *11:11 | - | | | | 4 | | | | | | | | 11 | 12 | | | | | | | | | | | |
| *11:25, 11:60 | A11, - | | | | 3 | 4 | | | | | | | 11 | | | | | | | | | | | | |
| *11:94, 11:112 | - | 1 | | | 4 | | | | | | | | 11 | | | | | | | | | | | | |
| *11:113 | - | | | | 4 | | | | | | | | 11 | | | 15 | | | | | | | | | |
| *23:01:01-23:13, 23:15-23:51 | A23(9), Null, - | | | | | 5 | 6 | | | | | | | | | | | | | | | | | | |
| *23:14:01, 24:05, 24:13:02, 24:24, 24:199 ⁷ | A9, A24(9), - | | | | | 5 | 6 | 7 | | | | | | | | | | | | | | | | | |
| *24:02:01:01-24:04, 24:06- 24:11N, 24:13:01, 24:17, 24:20-24:23, 24:25-24:43, 24:45N-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:81, 24:83N-24:88, 24:90N-24:91, 24:93, 24:95-24:113, 24:115- 24:128, 24:130-24:137, 24:139-24:187, 24:189- 24:198 | A24(9), Low A24(9), - , A2403, Null, A9 | | | | | 5 | | 7 | | | | | | | | | | | | | | | | | |
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|--|------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| *24:14-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138, 24:188 | A24(9), - | | | | | 5 | | | | | | | | | | | | | | | | | | | | |
| *24:18 | A24(9), A3 | | | | | 5 | | 7 | | | | | | | | | | | | | | | | 23 | | |
| *24:19, 24:44 | A9, - | | | | | 5 | | 7 | | | | 11 | | | | | | | | | | | | | | |
| *24:28 | A9 | | w | | | 5 | | 7 | | | | | | | | | | | | | | | | | | |
| *24:82 | - | | | | | 5 | | 7 | | | | | | | | | | | | | | 21 | | | | |
| *24:89 | - | | w | | | | | 7 | | | | | | | | | | | | | | | | | | |
| *24:92 | - | | | 3 | | 5 | | | | | | | | | | | | | | | | | | | | |
| *24:129 | - | | | | | | | 7 | | | | | | | | | | | | | | | | | | |
| *25:01:01-25:04, 25:07- 25:12N, 25:14-25:16 | A25(10) , Null, - | | | | | | | | 8 | 9 | | | | 13 | | | | | | | | | | | | |
| *25:05 | - | | | | | | | | 8 | 9 | | 12 | 13 | | | | | | | | 20 | | | | | |
| *25:06 | - | | | | | | | | 8 | 9 | | 12 | | | | | | | | | | | | | | |
| *25:13 | - | | | | | | | | 8 | 9 | | | | 13 | | | | | | | | | | | 24 | |
| *26:01:01-26:01:20, 26:01:22- 26:01:24, 26:08, 26:10- 26:15, 26:17-26:18, 26:20, 26:23-26:29, 26:31-26:33, 26:35-26:43:02, 26:45-26:53, 26:55-26:63, 26:66-26:71N, 26:74 | A26(10) , A10, Null, - | | | | | | | | 8 | | 10 | | | 13 | | | | | | | | | | | | |
| *26:01:21, 26:04, 26:34, 26:73 | A26(10) , - | | | | | | | | 8 | | 10 | | | | | | | | | | | | | | | |
| *26:02 | A26(10) | | | | | | | | 8 | | 10 | | | w | | | | | | | | | | | | |
| *26:03:01-26:03:02, 26:06, 26:21 | A26(10) , - | | w | | | | | | 8 | | | 11 | | 13 | | | | | | | | | | | 23 | |
| *26:05 | A26(10) | | | | | | | | 8 | | | | | 13 | | | | | | | | | | | 23 | |
| *26:07:01, 26:64 | A26(10) , - | | | | | | | | | | 10 | | | 13 | | | | | | | | | | | | |
| *26:07:02 | - | | w | | | | | | | | 10 | | | 13 | | | | | | | | | | | | |
| *26:09 | A26(10) | | | | | | | | 8 | | 10 | | 12 | | | | | | | | | | | | | |
| *26:16 | - | | | | | | | 7 | | | 10 | | | 13 | | | | | | | | | | | | |
| *26:19 | - | | | | 4 | | | | | | | | | 13 | 14 | | | | | | | | | | | |
| *26:22 | A26(10) | | | | | | | | 8 | | 10 | | | 13 | 14 | | | | | | | | 21 | | | |
| *26:30 | - | | w | | | | | | 8 | | | | | 13 | | | | | | | | | | 23 | 24 | |
| *26:54 | - | | | | | | | | 8 | | 10 | | 12 | 13 | | | | | | | | 20 | | | | |
| *26:65 | - | | | | | | | | 8 | | 10 | | | 13 | | | | | | | | | | | 24 | |
| *26:72 | - | | | | 4 | | | | | | | | | 13 | | | | | | | | | | | | |
| *29:01:01-29:06, 29:08N- 29:12, 29:15-29:18, 29:20- 29:27, 29:29-29:35 | A29(19) , Null, - | | | | | | | | | | | | | 14 | | | | | | | | | | | | |
| *29:07 | - | | | | | | 6 | | | | | | | 14 | | | | | | | | | | | | |
| *29:13 | - | | | | | | | | | | | | | 14 | | | | 17 | | | | | | | | |
| *29:14 | - | | | | | | | | | | | | | 14 | | 16 | | | | | | | | | | |
| *29:19 | - | | | | | | | | | | | | | 14 | | | | | | 19 | | | | | | |
| *29:28 | - | | | | | | | | 8 | | | | | 14 | | | | | | | | | | | | |
| *30:01:01-30:04:02, 30:06- 30:07, 30:09-30:12, 30:14- 30:15, 30:17-30:20, 30:22- 30:43, 30:45, 30:47-30:54, 30:56, 30:58-30:63 | A30(19) , Null, - | | | | | | | | | | | | | | | 15 | | | | | | | | | | |
| *30:08 | - | | | | 4 | | | | | | | | | | | 15 | | | | | | | | | | |

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| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|----------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *30:13, 30:16, 30:44, 30:46 | A30(19) , - | | w | | | | | | | | | | | | | 15 | | | | | | | | | |
| *30:55 | - | | | | | | | | | | | | | 13 | | 15 | | | | | | | | | |
| *30:57 | - | | | | | | | | | | | | | | 14 | 15 | | | | | | | | | |
| *31:01:02-31:02, 31:05-31:07, 31:09-31:28, 31:30-31:34, 31:36-31:61 | A31(19) , Null, - | | | | | | | | | | | | | | | | 16 | | | | | | | | |
| *31:03 | - | | | | | | | | | | | 12 | | | | | 16 | | | | | | | | |
| *31:04 | A31(19) | | | | | | | | | | | | 12 | | | | 16 | | | | | | | | 24 |
| *31:08 | - | | | | | 5 | | | | | | | | | | | 16 | | | | | | | | |
| *31:29 | - | | | | | | 6 | | | | | | | | | | 16 | | | | | | | | |
| *31:35 | - | | | | | | | | | | | | | | | | 15 | 16 | 17 | | | | | | |
| *31:62 | - | | | | | | | | | | | | | | | | 16 | | | | | | 22 | | |
| *32:01:01-32:02, 32:06-32:12, 32:14, 32:16-32:37, 32:39-32:41 | A32(19) , Null, - | | | | | | | | | 9 | | | | | | | | 17 | | | | | | | |
| *32:03, 32:38 | - | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| *32:04 | - | | | 3 | | | | | | 9 | | | | | | | | | | | | | | | |
| *32:05 | - | | | | | 5 | | | | | | | | | | 16 | | 17 | | | | | | | |
| *32:13 | - | | | | | 5 | | | | 9 | | | | | | | | 17 | | | | | | | |
| *32:15 | - | | | | | | | 8 | | 9 | | | | | | | | 17 | | | | | | | |
| *33:01:01-33:01:06, 33:03:01-33:12, 33:14-33:18, 33:20-33:21, 33:23, 33:25-33:47, 33:49-33:50, 33:52, 33:54-33:59 | A33(19) , A19, - | | | | | | | | | | | | | | | | | | 18 | | | | | | |
| *33:13 | - | | | | | | | | | 10 | | | | | 14 | | | 18 | | | | | | | |
| *33:19 | - | | | | | | | 7 | | | | | | | | | | 18 | | | | | | | |
| *33:22 | - | | | | | | | | | | | | | | | | | 18 | | | 21 | | | | |
| *33:24 | - | | | | | | | | | | | | | | | | | 18 | | | | | | 23 | |
| *33:48 | - | | | | | | | | | 10 | | | | | | | | 18 | | | | | | | |
| *33:51 | - | | | | | | | | 8 | | | | | | | | | | | | | | | | |
| *33:53 | - | | | | | 5 | | | | | | | | | | 16 | | 18 | | | | | | | |
| *34:01:01-34:01:02, 34:05-34:06 | A34(10) , - | | | | | | | | 8 | | | 11 | 12 | | | | | | | | | | | | |
| *34:02:01, 34:02:03-34:04, 34:07 | A34(10) , - | | | 3 | | | | | 8 | | | 11 | 12 | | | | | | | | | | | | |
| *34:02:02 | - | | | w | | | | | 8 | | | 11 | 12 | | | | | | | | | | | | |
| *34:08 | - | | | 3 | | | | | 8 | | | 11 | 12 | 13 | | | | | | | | | | | |
| *34:09 | - | | | 3 | | | | | 8 | | | | 12 | | | | | | | | | | | | 24 |
| *36:01, 36:03, 36:05 | A36, - | 1 | | | | | | | | | | | | | | | | | | | | | 22 | | |
| *36:02 | - | 1 | | 3 | | | | | | | | | | | | | | | | | | | 22 | 23 | |
| *36:04 | A36 | 1 | | | 4 | | | | | | | | | | | | | | | | | | 22 | | |
| *43:01 | A43 | | | | | | | | | | | | 12 | 13 | | | | | | | | | | | |
| *66:01, 66:04-66:08, 66:10-66:11, 66:13-66:14 | A66(10) , - | | | | | | | | 8 | | | 11 | | 13 | | | | | | | | | | | |
| *66:02-66:03, 66:16 | A66(10) , A10, - | | | | | | | | 8 | | | | 12 | | | | | | | | | | | | 24 |
| *66:09 | - | | | | | | | | 8 | | | 11 | | 13 | 14 | | | | | | | 21 | | | |
| *66:12 | - | | | | | | | | 8 | | | | | 13 | | | | | | | | | | | 24 |
| *66:15 | - | | | | | | | | 8 | | | | | 13 | | | | | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-----------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| *68:01:01:01-68:04, 68:06-68:12, 68:14, 68:16-68:19, 68:21:01-68:28, 68:31-68:44, 68:46-68:65, 68:67-68:70, 68:72-68:83, 68:85-68:88 | A68(28), A28, Null, - | | | | | | | | 8 | | | | | | | | | | | | 20 | | | | |
| *68:05, 68:15, 68:20 | A68(28), - | | w | | | | | | 8 | | | | | | | | | | | | 20 | | | 23 | |
| *68:13, 68:66 | - | | | | 4 | | | | 8 | | | | | | | | | | | | 20 | | | | |
| *68:29 | - | | | | | | | | 8 | | | | | | | | | | 18 | | 20 | 21 | | | |
| *68:30 | A68(28) | | w | | | | | | 8 | | | | | | | | | | | | 20 | | | | |
| *68:45 | - | | | | | | | 7 | 8 | | | | | | | | | | | | 20 | | | | |
| *68:71 | - | | | | | | | | 8 | | | | | 13 | | | | | | | 20 | | | | |
| *68:84 | - | | | | | | | | 8 | 10 | | | | | | | | | | | 20 | | | | |
| *69:01 | A69(28) | | | | | | | | 8 | | | | | | | | | | | | | 21 | | | |
| *74:01-74:06, 74:08-74:12N, 74:14N-74:15 | A74(19), Null, - | | | | | | | | | | | | | | | | | | | | 19 | | | | |
| *74:07 | A74(19) | | | | | | | | | | | | | | | | | 17 | | 19 | | | | | |
| *74:13 | - | | | | | | | | | | | | | 13 | | | | | | 19 | | | | | |
| *80:01 | A80 | | | | | | 6 | | | | | | | | | | | | | | | | | 23 | |
| *80:02 | - | | | | | | 6 | | | | 11 | | | | | | | | | | | | | | |
| B*18:27 | | | | | | | 6 | | | | | | | | | | | | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-A low resolution SSP typing. In addition, wells number 2, 4, 5, 6, 8, 9, 10, 12, 14 and 19 to 23 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band.

²The nucleotide position, in the 1st, 2nd or 3rd exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk, imgt, hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk, imgt, hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴The sequence of the A*0105N has been shown to be identical to A*01:04N. The A*01:34N allele has been renamed A*01:01:38L. The A*020116 allele has been renamed to A*02:134. The A*020120 has been renamed to A*02:01:18. The sequence of the A*0223 allele has been shown to be identical to A*02:22:01. The sequence of the A*0298 allele has been shown to be identical to A*02:96. The A*1128 allele has been renamed to A*11:15:02. The A*11:53 allele has been shown to be identical to the corrected A*11:02:01. The sequence of the A*2401 allele has been shown to be in error. The sequence of the A*2412 allele has been shown to be identical to A*24:08. The A*2416 allele has been renamed to A*31:08. The A*2465 allele has been renamed to A*24:13:02. The A*26:44 allele has been renamed to A*26:43:02. The sequence of the A*3005 allele has been shown to be identical to A*30:04. The A*3021 allele has been renamed to A*30:11:02. The sequence of the A*31011 allele has been shown to be identical to A*31:01:02. The sequence of the A*3302 allele has been shown to be identical to A*33:03:01.

⁵The serological reactivity of all HLA-A alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁶The primer pairs in wells 1, 2, 11 and 15 will in many samples give rise to two or three HLA-specific PCR fragments.

⁷The A*23:14 and the A*24:05, 24:13:02, 24:24 and 24:199 alleles will give rise to identical amplification patterns. These four alleles can be separated by the respective high resolution SSP primer sets.

'w', may be weakly amplified.

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| INTERPRETATION TABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| HLA-B low resolution SSP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amplification patterns of the B*07:02 to B*83:01 alleles | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Well | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | | | | | | | | | | | | | | | | | | | | | |
| Length of spec. | | 110 | 215 | 140 | 130 | 185 | 190 | 290 | 165 | 165 | 180 | 105 | 280 | 195 | 105 | 115 | 80 | 150 | 135 | 60 | 210 | 170 | 110 | 395 | 160 | | | | | | | | | | | | | | | | | | | | | | |
| PCR product(s) | | | | 235 | 265 | 235 | | | 330 | 390 | | | | | 435 | 150 | | | | 400 | | | | | 425 | | | | | | | | | | | | | | | | | | | | | | |
| Length of int. pos. control ¹ | | 800 | 1070 | 1070 | 800 | 800 | 800 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 | 800 | 800 | 1070 | 1070 | 1070 | | | | | | | | | | | | | | | | | | | | | | |
| 5'-primer(s) ² | | 5'-TgA ^{3'} 527 | 5'-TCg ^{3'} 97 | 5'-ggC ^{3'} 209 | 5'-CCg ^{3'} 103 | 5'-CCT ^{3'} 103 | 5'-CCg ^{3'} 103 | 5'-ggA ^{3'} 45 | 5'-ggA ^{3'} 45 | 5'-ggA ^{3'} 45 | 5'-TTA ^{3'} 420 | 5'-AgA ^{3'} 206 | 5'-gTC ^{3'} 419 | 5'-TCT ^{3'} 142 | 5'-ggA ^{3'} 45 | 5'-Cgg ^{3'} 161 | 5'-gCT ^{3'} 167 | 5'-TCA ^{3'} 355 | 5'-gAC ^{3'} 206 | 5'-ggA ^{3'} 45 | 5'-TCT ^{3'} 142 | 5'-ggC ^{3'} 409 | 5'-gAA ^{3'} 246 | 5'-ggC ^{3'} 44 | 5'-ggC ^{3'} 44 | | | | | | | | | | | | | | | | | | | | | | |
| 3'-primer(s) ³ | | 5'-gCT ^{3'} 605 | 5'-TgA ^{3'} 272 | 5'-CAG ^{3'} 559 | 5'-CgT ^{3'} 193 | 5'-TAT ^{3'} 246 | 5'-GCC ^{3'} 572 | 5'-TgG ^{3'} 165 | 5'-CCT ^{3'} 206 | 5'-TCC ^{3'} 266 | 5'-CTC ^{3'} 559 | 5'-TgG ^{3'} 272 | 5'-TAT ^{3'} 31d | 5'-gTC ^{3'} 301 | 5'-ATC ^{3'} 309 | 5'-TgA ^{3'} 272 | 5'-TCT ^{3'} 234 | 5'-gCT ^{3'} 463 | 5'-ggC ^{3'} 302 | 5'-gTT ^{3'} 259 | 5'-ggg ^{3'} 311 | 5'-ggT ^{3'} 544 | 5'-gAA ^{3'} 317 | 5'-TgC ^{3'} 272 | 5'-ggC ^{3'} 302 | | | | | | | | | | | | | | | | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | | | | | | | | | | | | | | | | | | | | | |

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| INTERPRETATION TABLE | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| HLA-B low resolution SSP | | | | | | | | | | | | | | | | | | | | | | | | |
| Amplification patterns of the B*07:02 to B*83:01 alleles | | | | | | | | | | | | | | | | | | | | | | | | |
| Well | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | |
| | | | | | | | | | | | | | | | | | | | | | | | | Length of spec. PCR product(s) |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Length of int. pos. control ¹ |
| | | | | | | | | | | | | | | | | | | | | | | | | 5'-primer(s) ² |
| | | | | | | | | | | | | | | | | | | | | | | | | 3'-primer(s) ³ |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Well No. |

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| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|--|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ^{4,15} | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *07:02:01-07:02:31, 07:05:01-07:06, 07:10, 07:12-07:15, 07:18:01-07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34-07:35, 07:39, 07:41-07:46, 07:49N, 07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70-07:72, 07:74-07:76, 07:79-07:80, 07:82-07:83, 07:86-07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140-07:145, 07:147-07:148, 07:150-07:154 | B7, B42, Null, - | 25 | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:02:32 | - | 25 | | | | 29 | | | | | | | | | | | | | | | | | | | | 48 |
| *07:03, 07:08, 07:16, 07:32, 07:37 | B703, - | 25 | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:04, 07:25, 07:146 | B7, - | 25 | | | | | | | | | | | | | 38 | | | | | | | | | | | 48 |
| *07:07, 07:77 | B7, - | 25 | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:09, 07:11, 07:17 | B7 | 25 | | | | | | | | | | 36 | | | | | | | | | | | | | | 48 |
| *07:19, 07:33, 07:40, 07:53, 07:122, 07:139 | B7, - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:20, 07:24, 07:131 | B7, - | 25 | | 27 | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:27 | - | 25 | | | | | | | | | 35 | | | | | | | | | 44 | | | | | | |
| *07:28 | - | 25 | | | | 30 | | | | | | | | | | | | | | | | | | | | 48 |
| *07:36, 07:81, 07:149 | - | 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| *07:38 | - | 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| *07:47 | - | 25 | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:48, 07:51 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:50 | - | 25 | | | | | | | | | 35 | | | | | | | | | | | | | | | 48 |
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| *07:60 | - | | | 27 | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:65 | - | 25 | | | | | | | | | | | | | | | | | 42 | | | | | | | |
| *07:69, 07:85 | - | 25 | | | | | | | | | | | | | | | | | | | | | | 47 | 48 | |
| *07:73 | - | 25 | | | | | | | | | | | | | | | 40 | | | | | | | | | 48 |
| *07:78 | - | 25 | | | | | | | | | 34 | | | | | | | | | | | | | | | 48 |
| *07:84 | - | 25 | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:100 | - | | | 27 | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:133 | - | 25 | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *07:134 | - | 25 | | | | | | | | | | | | | | | | | 42 | | | | | | | 48 |
| *08:01:01-08:01:17, 08:05, 08:08N, 08:10-08:11, 08:15, 08:18-08:19N, 08:22-08:24, 08:27, 08:29-08:31, 08:33-08:34, 08:39, 08:41-08:48, 08:51, 08:53, 08:56-08:59, 08:61, 08:63-08:64, 08:66-08:69, 08:71-08:73, 08:75, 08:80-08:83, 08:86N | B8, Null, - | | 26 | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|------------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ^{4,15} | |
| | | | 52 | | | | | | | | | | | | | | | | | | | 71 | 72 | B7, B42, Null, - | *07:02:01-07:02:31, 07:05:01-07:06, 07:10, 07:12-07:15, 07:18:01-07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34-07:35, 07:39, 07:41-07:46, 07:49N, 07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70-07:72, 07:74-07:76, 07:79-07:80, 07:82-07:83, 07:86-07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140-07:145, 07:147-07:148, 07:150-07:154 |
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| | | | | | | | | | | | | | | | | | | | | | | 71 | 72 | B703, - | *07:03, 07:08, 07:16, 07:32, 07:37 |
| | | 51 | 52 | | | | | | | | | | | | | | | | | | | 71 | 72 | B7, - | *07:04, 07:25, 07:146 |
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| | | | 52 | | | | | | | | | | | | | | | | | | | 71 | | B7, - | *07:19, 07:33, 07:40, 07:53, 07:122, 07:139 |
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| | | | | | | | | | | | | | | | | | | | | | | 70 | 72 | - | *07:38 |
| | | | w | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *07:47 |
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| | | | 52 | | | | | | | | | | 62 | | | | | | | | | 71 | 72 | - | *07:54, 07:123 |
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| | | | 52 | | | | 56 | | | | | | | 64 | | | | | w | | | 71 | 72 | - | *07:65 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *07:69, 07:85 |
| | | | 52 | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *07:73 |
| | | | 52 | | | | | | | 59 | | | | | | | | | | | | 71 | | - | *07:78 |
| | | | 52 | | | | | | | 59 | | | | | | | | | | | | 71 | | - | *07:84 |
| | | | 52 | | | | | | | | | | | | | | | | | | 69 | 71 | | - | *07:100 |
| | | | 52 | | | | | | | | | 61 | | | | | | | | | | 71 | 72 | - | *07:133 |
| | | | 52 | | | | | | | | | | | | | | | | w | | | 71 | 72 | - | *07:134 |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | B8, Null, - | *08:01:01-08:01:17, 08:05, 08:08N, 08:10-08:11, 08:15, 08:18-08:19N, 08:22-08:24, 08:27, 08:29-08:31, 08:33-08:34, 08:39, 08:41-08:48, 08:51, 08:53, 08:56-08:59, 08:61, 08:63-08:64, 08:66-08:69, 08:71-08:73, 08:75, 08:80-08:83, 08:86N |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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Lot No.: 30R

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|---|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *08:02-08:03, 08:52, 08:78 | B8, - | | 26 | | | | | | 32 | | | | | | | | | | | | | | | | | |
| *08:04 | - | | 26 | | | | | | 32 | | | 35 | | | | | | | | | | | | | | 48 |
| *08:07, 08:14, 08:74, 08:77 | B8, - | | 26 | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *08:09, 08:84 | B8, - | | 26 | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *08:12:01-08:12:03, 08:16 | B8, - | | 26 | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *08:13, 08:20, 08:40, 08:70 | - | | 26 | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *08:17, 08:54 | - | | 26 | | | | | | 32 | | | 35 | | | | | | | | | | | | | | 48 |
| *08:21 | - | | 26 | 27 | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *08:25 | - | | 26 | 27 | | | | | | | | | | | | | | | | | | | | | | 48 |
| *08:26, 08:50, 08:62, 08:85, 42:07 ⁶ | - | | | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *08:28, 08:37 | - | | 26 | | | | | | | | | | 36 | | | | | | | | | | | | | 48 |
| *08:32 | - | | 26 | | | | | | 32 | | | | | | | | | | 42 | | | | | | | 48 |
| *08:35 | - | | 26 | | | | | | 32 | | | | 36 | | | | | | | | | | | | | 48 |
| *08:36 | - | | 26 | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *08:38 | - | | 26 | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *08:49 | - | | 26 | | | | | | | | | | | | | | | 41 | | | 44 | | | | | 48 |
| *08:55 | - | | 26 | | | | | | | | | | | | | | | | | | | | 45 | | | 48 |
| *08:60, 08:76 | - | | 26 | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *08:65 | - | | | | | | | | 32 | | | | | | | | | | | | | | | | 47 | 48 |
| *08:79 | - | 25 | 26 | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *08:87 | - | | 26 | | | | 30 | | | | | | | | | | | | | | | | | | | 48 |
| *08:88 | - | | 26 | | | | | | 32 | | | | | | | | | 40 | | | | | | | | 48 |
| *13:01:01-13:01:06, 13:17, 13:20, 13:22:01-13:23, 13:25, 13:28-13:29, 13:43, 13:50, 13:52 | B13, - | | | 27 | 28 | | | | | | 34 | | | | | | | 41 | | | | | | | | |
| *13:02:01-13:02:12, 13:08Q, 13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:54 | B13, Null, - | | | 27 | 28 | | | | | | 34 | | | | | | | | | | | | | | | |
| *13:03 | - | | | 27 | 28 | | | | | | | | | | | | | | | | | | | | | |
| *13:04, 13:10 | B15, B21, - | | | 27 | 28 | | | | | | | | 36 | | | | | | | | | | | | | |
| *13:06 | - | | | 27 | 28 | | | | | | | | | | | | | | 41 | | | | | | | |
| *13:07N | Null | | | 27 | 28 | | | | | | 34 | | | | | | | | 41 | | | | | | | |
| *13:09 | - | | | 28 | | | | | | | 34 | | | | | | | | | | | | | | | |
| *13:11 | - | | | 27 | 28 | | | | | | 34 | | | | | | | | | | | | | | | |
| *13:12-13:13, 13:51 | B13, - | | | 27 | 28 | | | | | | | | | | | | | | 41 | | | | | | | |
| *13:14 | - | | | 27 | | | | | | | 34 | | | | | | | | | | | | | | | |
| *13:16 | - | | | 27 | 28 | | | | | | 34 | | | | | | | | | | | | | | | |
| *13:21, 13:35, 44:135 ⁷ | - | | | 27 | 28 | | | | | | | | | | | | | | | | | | | | | |
| *13:26 | - | | | 27 | 28 | | | | | | | | 36 | | | | | | 41 | | | | | | | |
| *13:31 | - | | | 27 | 28 | | | | | | 34 | | | | | | | | | | | | | | | |
| *13:36 | - | | | 27 | 28 | | | | | | 34 | | | | | | | | 41 | | | | | | | |
| *13:39 | - | | | 28 | | | | | | | 34 | | | | | | | | 41 | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|----------------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | 51 | | | | | | | | | | | | | | | | | | | 70 | 72 | B8, - | *08:02-08:03, 08:52, 08:78 | |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:04 |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | B8, - | *08:07, 08:14, 08:74, 08:77 |
| | | 51 | | 54 | | | | | | | | | | | | | | | | | | 71 | | B8, - | *08:09, 08:84 |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | | B8, - | *08:12:01-08:12:03, 08:16 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:13, 08:20, 08:40, 08:70 |
| | | 51 | | | | | | | | | | 62 | | | | | | | | | | 71 | 72 | - | *08:17, 08:54 |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:21 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:25 |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:26, 08:50, 08:62, 08:85, 42:07 ⁶ |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:28, 08:37 |
| | | 51 | | | | | | | | | | | | | | | | | 68 | | | 71 | 72 | - | *08:32 |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:35 |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:36 |
| | | 51 | | | | | | | | | | 62 | | | | | | | | | | 71 | 72 | - | *08:38 |
| | | 51 | | 53 | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:49 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:55 |
| | | 51 | | 53 | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:60, 08:76 |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:65 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:79 |
| | | 51 | | 53 | | | | | | | | | 63 | | | | | | | | | 71 | 72 | - | *08:87 |
| | | 51 | | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *08:88 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | B13, - | *13:01:01-13:01:06, 13:17, 13:20, 13:22:01-13:23, 13:25, 13:28-13:29, 13:43, 13:50, 13:52 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | B13, Null, - | *13:02:01-13:02:12, 13:08Q, 13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:54 |
| | | | | | | | | | | | | 62 | | 65 | | | | | | | | 70 | | - | *13:03 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | B15, B21, - | *13:04, 13:10 |
| | | | | | | | | | | | | 62 | | 64 | | | | | | | | 70 | | - | *13:06 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | Null | *13:07N |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | - | *13:09 |
| | | | | | | | | | | | | 62 | | | | | | | 67 | | | 70 | | - | *13:11 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | B13, - | *13:12-13:13, 13:51 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | - | *13:14 |
| | | | | | | | | | 59 | | | 62 | | | | | | | | | | 70 | | - | *13:16 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | - | *13:21, 13:35, 44:135 ⁷ |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | - | *13:26 |
| | | | | | | | | | w | | | 62 | | | | | | | | 69 | 70 | | | - | *13:31 |
| | | | | | | | | 57 | | | | | | | | | | | | | | 70 | | - | *13:36 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | - | *13:39 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|---|---------------------|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *13:41 | - | | | | 27 28 | | | | | | 34 | | | | | | | | | | | | | | | |
| *13:46 | - | | | | 27 28 | | | | 32 | | | | | | | | | | | | | | | | | |
| *13:48 | - | | | | 27 28 | | | | | | | | | | | | | | | | | | | | | |
| *13:53 | - | | | | 27 28 | | | | | | | | | | | | | | | | | | | | | |
| *14:01:01-14:01:02, 14:07N, 14:12, 14:14, 14:19, 14:26, 14:32 | B64(14), Null, - | | | | 28 | 29 | | | | | | | | | | | | | | | | | | | 47 | 48 |
| *14:02:01-14:02:02, 14:02:04, 14:03-14:04, 14:09, 14:11, 14:15- 14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29, 14:31 | B65(14), B14, - | | | | 28 | | 30 | | | | | | | | | | | | | | | | | | 47 | 48 |
| *14:02:03, 14:02:06, 14:24, 14:28 | B65(14), - | | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | 48 |
| *14:02:05, 14:30 | B65(14), - | | | | 28 | | 30 | | | | | | | | | | | | | | | | | | 47 | |
| *14:05-14:06:02, 14:13 | B14, - | | | | | | 30 | | | | | | | | | | | | | | | | | | 47 | 48 |
| *14:08, 39:25N, 39:30, 39:32- 39:34, 39:47, 39:50 ⁸ | B39(16), Null, - | | | | | 29 | | | | | | | | | | | | | | | | | | | 47 | 48 |
| *14:10 | - | | | | | 29 | | | | | | | | | | | | 41 | | | | | | | 47 | 48 |
| *14:21 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | 48 |
| *15:01:01:01-15:01:01:02N, 15:01:03, 15:01:06-15:01:16, 15:01:18, 15:01:20-15:01:28, 15:26N-15:27:03, 15:32, 15:34- 15:35, 15:38:01-15:38:02, 15:50, 15:56, 15:60, 15:70-15:71, 15:75, 15:79N, 15:81-15:82, 15:92, 15:94N, 15:96-15:97, 15:102, 15:104-15:105, 15:109- 15:111N, 15:113, 15:117- 15:118, 15:122, 15:125, 15:128- 15:129, 15:135, 15:140, 15:145- 15:147, 15:152, 15:159-15:160, 15:163-15:164, 15:166-15:167, 15:169, 15:171-15:172, 15:174- 15:175, 15:178, 15:181N- 15:184, 15:187, 15:190N, 15:192-15:193, 15:201, 15:203, 15:205-15:206, 15:211, 15:217, 15:225, 15:227-15:228, 15:231- 15:232, 15:234, 15:244 | B62(15), Null, - | | | | | | | 31 | | | | | 36 | | | | | | | 43 | | | | | | |
| *15:01:02 | B62(15) | | | | | | | 31 | | 33 | | | 36 | | | | | | | | 43 | | | | | |
| *15:01:04 | B62(15) | | | | | | | | | | | | 36 | | | | | | | | 43 | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|----|---------------------|---|---------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | 54 | | | | | | | | 62 | | | | | | | | 69 70 | | - | *13:41 | | |
| | | | | 54 | | | | | | | | 62 | | | | | | | | 70 | | - | *13:46 | | |
| | | | | | | | | 59 | | | | 62 | | | | 65 | | | | 70 | | - | *13:48 | | |
| | | | | | | | | | | | | 62 | | | | 64 | | | | 70 | | - | *13:53 | | |
| | | | | | | | | | | | | | | | | | | | | 71 | | B64(14), Null, - | *14:01:01-14:01:02, 14:07N, 14:12, 14:14, 14:19, 14:26, 14:32 | | |
| | | | | | | | | | | | | | | | | | | | | 71 | | B65(14), B14, - | *14:02:01-14:02:02, 14:02:04, 14:03-14:04, 14:09, 14:11, 14:15 14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29, 14:31 | | |
| | | | | | | | | | | | | | | | | | | | | 71 | | B65(14), - | *14:02:03, 14:02:06, 14:24, 14:28 | | |
| | | | | | | | | | | | | | | | | | | | | 71 | | B65(14), - | *14:02:05, 14:30 | | |
| | | | | | | | | | | | | | | | | | | | | 71 | | B14, - | *14:05-14:06:02, 14:13 | | |
| | | | | | | | | | | | | | | | | | | | | 71 | | B39(16), Null, - | *14:08, 39:25N, 39:30, 39:32- 39:34, 39:47, 39:50 ⁸ | | |
| | | | | 55 | | | | | | | | | | | | | | | | 71 | | - | *14:10 | | |
| 52 | | | | | | | | | | | | | | | | | | | | 71 | | - | *14:21 | | |
| | | | | | | | | | | | | 62 | | | | | | | | 69 71 | | B62(15), Null, - | *15:01:01:01-15:01:01:02N, 15:01:03, 15:01:06-15:01:16, 15:01:18, 15:01:20-15:01:28, 15:26N-15:27:03, 15:32, 15:34- 15:35, 15:38:01-15:38:02, 15:50, 15:56, 15:60, 15:70-15:71, 15:75, 15:79N, 15:81-15:82, 15:92, 15:94N, 15:96-15:97, 15:102, 15:104-15:105, 15:109- 15:111N, 15:113, 15:117- 15:118, 15:122, 15:125, 15:128- 15:129, 15:135, 15:140, 15:145- 15:147, 15:152, 15:159-15:160, 15:163-15:164, 15:166-15:167, 15:169, 15:171-15:172, 15:174- 15:175, 15:178, 15:181N- 15:184, 15:187, 15:190N, 15:192-15:193, 15:201, 15:203, 15:205-15:206, 15:211, 15:217, 15:225, 15:227-15:228, 15:231- 15:232, 15:234, 15:244 | | |
| | | | | | | | | | | | | 62 | | | | | | | | 69 71 | | B62(15) | *15:01:02 | | |
| | | | | | | | | | | | | 62 | | | | | | | | 69 71 | | B62(15) | *15:01:04 | | |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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|---|----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *15:01:17, 15:05:01-15:06, 15:33, 15:39:01-15:40, 15:65, 15:78:01-15:78:03, 15:84, 15:107, 15:136, 15:141, 15:155, 15:179, 15:185, 15:195, 15:199, 15:218Q-15:219, 15:237 | B62(15), B15, - | | | | | | | 31 | | | | 36 | | | | | | | | 43 | | | | | |
| *15:01:19, 15:28, 15:120, 15:149N | B62(15), Null, - | | | | | | | 31 | | | | 36 | | | | | | | | 43 | | | | | |
| *15:02:01-15:02:05, 15:88, 15:112, 15:121, 15:139, 15:170, 15:194, 15:213-15:214, 15:223 | B75(15), B15, - | | | | | | | 31 | | | | 36 | | | | | 41 | | 43 | | | | | | |
| *15:03:01-15:03:02, 15:47:01-15:47:02, 15:49, 15:61, 15:98, 15:103, 15:123, 15:127, 15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242 | B72(70), B70, - | | | | | | | | 32 | | | 35 | 36 | | | | | | | 43 | | | | | |
| *15:03:03 | B72(70) | | | | | | | 31 | 32 | | | 35 | 36 | | | | | | | 43 | | | | | |
| *15:04 | B62(15) | | | | | | | 31 | | | | 36 | | | | | | | | 43 | | | | | |
| *15:07:01-15:07:02, 15:126, 15:207 | B62(15), - | | | 27 | | | | 31 | | | | 36 | | | | | | | | 43 | | | | | |
| *15:08, 15:11:01-15:11:03, 15:11:05, 15:15, 15:148, 15:191, 15:209N, 15:215 | B75(15), B62(15), Null, - | | | | | | | 31 | | | | 36 | | | | | | | | 43 | | | | | |
| *15:09 | B70 | | | | | | | | 32 | 33 | | | | | 38 | | | | | 43 | | | | | |
| *15:10:01, 15:37, 15:90, 15:99, 15:133, 15:229 | B71(70), B70, - | | | | | | | | 32 | | | | | | 38 | | | | | 43 | | | | | |
| *15:10:02 | B71(70) | | | | | | | 31 | 32 | | | | | | 38 | | | | | 43 | | | | | |
| *15:11:04 | B75(15) | | | | | | | | | | | 36 | | | | | | | | 43 | | | | | |
| *15:12, 15:14, 15:19 | B76(15) | | | | | | | 31 | | | | 36 | 37 | | | | | | | 43 | | | | | |
| *15:13:01-15:13:02 | B77(15), - | | | | | | | 31 | | | | 36 | | 38 | | | | 41 | | 43 | | | | | |
| *15:16:01-15:16:03, 15:67, 15:95 | B63(15), - | | | | | | | | | | 33 | | 36 | | 38 | | | | | 43 | | | | | |
| *15:17:01:01-15:17:02, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216 | B63(15), - | | | | | | | 31 | | 33 | | | | | 38 | | | | | 43 | | | | | |
| *15:18:01-15:18:02, 15:18:04, 15:51-15:52, 15:72, 15:93, 15:108, 15:114, 15:119, 15:134, 15:153, 15:176, 15:197-15:198, 15:200, 15:221, 15:226N, 15:238 | B71(70), B70, B15, Null, - | | | | | | | | 32 | | | 36 | | 38 | | | | | | 43 | | | | | |
| *15:18:03 | B71(70) | | | | | | | | 32 | | | 36 | | 38 | | | | | | 43 | | | | | |
| *15:20, 15:25:01-15:25:03, 15:204, 15:240 | B62(15), - | | | | | | | 31 | | | | 36 | | | | | | 41 | | 43 | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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Lot No.: **30R**

Lot-specific information

| Lot-specific information | | | | | | | | | | | | | | | | | | | | | | | | Well No. | |
|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------------------------|--|
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | ser. ⁵ | HLA-B allele ⁴ |
| | | | | | | | | | | | | | 62 | | | | | | | | | 71 | | B62(15), B15, - | *15:01:17, 15:05:01-15:06, 15:33, 15:39:01-15:40, 15:65, 15:78:01-15:78:03, 15:84, 15:107, 15:136, 15:141, 15:155, 15:179, 15:185, 15:195, 15:199, 15:218Q-15:219, 15:237 |
| | | | | | | | | | | | | | | | | | | | | 69 | | 71 | | B62(15), Null, - | *15:01:19, 15:28, 15:120, 15:149N |
| | | | | | | | | 57 | | | | | | | | | | | | | | 71 | | B75(15), B15, - | *15:02:01-15:02:05, 15:88, 15:112, 15:121, 15:139, 15:170, 15:194, 15:213-15:214, 15:223 |
| | | | | | | | | | | | | | 62 | | | | | | | | | 71 | | B72(70), B70, - | *15:03:01-15:03:02, 15:47:01- 15:47:02, 15:49, 15:61, 15:98, 15:103, 15:123, 15:127, 15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242 |
| | | | | | | | | | | | | | 62 | | | | | | | | | 71 | | B72(70) | *15:03:03 |
| | | | | | | | | | w | | | | 62 | | | | | | | 69 | | 71 | | B62(15) | *15:04 |
| | | | | | | | | | | | | | 62 | | | | | | | | 69 | | 71 | B62(15), - | *15:07:01-15:07:02, 15:126, 15:207 |
| | | | | | | | | 57 | | | | | | | | | | | | | 69 | | 71 | B75(15), B62(15), Null, - | *15:08, 15:11:01-15:11:03, 15:11:05, 15:15, 15:148, 15:191, 15:209N, 15:215 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | | B70 | *15:09 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | | B71(70), B70, - | *15:10:01, 15:37, 15:90, 15:99, 15:133, 15:229 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | | B71(70) | *15:10:02 |
| | | | | | | | | 57 | | | | | | | | | | | | | 69 | | 71 | B75(15) | *15:11:04 |
| | | | | | | | | | | | | | 62 | | | | | | | | 69 | | 71 | B76(15) | *15:12, 15:14, 15:19 |
| | | | | | | | | 57 | | | | | | | | | | | | | | 70 | | B77(15), - | *15:13:01-15:13:02 |
| | | | | | | | | | 59 | | | | | | | | | | | | | 70 | | B63(15), - | *15:16:01-15:16:03, 15:67, 15:95 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | B63(15), - | *15:17:01:01-15:17:02, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | B71(70), B70, B15, Null, - | *15:18:01-15:18:02, 15:18:04, 15:51-15:52, 15:72, 15:93, 15:108, 15:114, 15:119, 15:134, 15:153, 15:176, 15:197-15:198, 15:200, 15:221, 15:226N, 15:238 |
| | | | | | | | | | | | | | | | | | | 67 | | | | 71 | | B71(70) | *15:18:03 |
| | | | | | | | | | | | | | 62 | | | | | | | | | 71 | | B62(15), - | *15:20, 15:25:01-15:25:03, 15:204, 15:240 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | | Well No. |

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|---------------------------------------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *15:21, 15:44 | B75(15), - | | | | | | | 31 | | | | | 36 | | 38 | | | 41 | | 43 | | | | | |
| *15:23, 15:115 | - | | | | | | | | 32 | | | | 36 | | 38 | | | | | 43 | | | | | |
| *15:24, 15:87, 15:157 | B62(15), - | | | | | | | 31 | | | | | 36 | | 38 | | | | | 43 | | | | | |
| *15:25:01-15:25:03, 15:204, 15:240 | B62(15), - | | | | | | | 31 | | | | | 36 | | | | | 41 | | 43 | | | | | |
| *15:29 | B15 | | | | | | | | 32 | | | | 36 | | | | | | | 43 | | | | | |
| *15:30, 15:58, 15:63 | B62(15), - | | | | | | | 31 | | | | | | | | | | | | 43 | | | | | |
| *15:31 | B75(15) | | | | | | | 31 | | | | | 36 | | | | | | | 43 | | | | | |
| *15:36 | - | | | w | | | | 31 | | | | | 36 | | | | | 41 | | 43 | | | | | |
| *15:42 | - | | | | | | | 31 | | | | | | | | | | | | 43 | | | | | |
| *15:43 | - | | | | | | | 31 | | | | | 36 | | | | | | | 43 | | | | | |
| *15:45 | B62(15) | | | | 27 | | | 31 | | | | | | | | | | | | 43 | | | | | |
| *15:46 | B72(70) | | | | 28 | | | 31 | 32 | | | | 36 | | | | | | | 43 | | | | | |
| *15:48, 15:150, 15:188 | B62(15), - | | | | | | | 31 | | | | | | | | | | | | 43 | | | | | |
| *15:53, 15:212 | - | | | | 28 | | | | 32 | | | | 36 | | | | | | | 43 | | | | | |
| *15:54 | - | | | | | | | | 32 | | | 35 | 36 | | | | | | | 43 | | | | | |
| *15:55 | B15 | | | | 27 | | | 31 | | | | | 36 | | | | | | | 43 | | | | | |
| *15:57 | - | | | | | | | 31 | | | | | 36 | | | | | | | 43 | | | | | |
| *15:62 | - | | | | | | | | 32 | | | 35 | 36 | | | | | 41 | | 43 | | | | | |
| *15:64 | - | | | | | | | | 32 | | | 35 | 36 | | | | | | | 43 | | | | | |
| *15:66 | - | | | | | | | 31 | | | | | 36 | | 38 | | | | | 43 | | | | | |
| *15:68 | B35 | | | | 27 | | | | | | | 35 | 36 | | | | | | | | | | | | |
| *15:69 | - | | | | | | | | 32 | | | 35 | 36 | | | | | | | 43 | | 45 | | | |
| *15:73 | B62(15) | | | | | | | 31 | | | | | | | | | | | | 43 | | | | | |
| *15:74 | - | | | | | | | | 32 | | | | 36 | | | | | | | 43 | | | | | |
| *15:76 | - | | | | | | | 31 | | | | | 36 | | | | | | | 43 | | | | | |
| *15:77 | - | | | | | | | 30 | 31 | | | | | | | | | 41 | | 43 | | | | | |
| *15:80 | B70 | | | | | | | | 32 | | | | 36 | | 38 | | | 41 | | 43 | | | | | |
| *15:83 | - | | | | | | | 31 | 32 | | | | | | | | | | | 43 | | | | | |
| *15:85 | - | | | | | | | 31 | | | | | 36 | | | | | 41 | | 43 | | | | | |
| *15:86 | - | | | | | | | 31 | | | | | | | | | | | | 43 | | | | | |
| *15:89 | - | | | w | | | | 31 | | | | | 36 | | | | | 41 | | 43 | | | | | |
| *15:91, 15:131 | - | | | | | | | | 32 | | | 35 | 36 | 37 | | | | | | 43 | | | | | |
| *15:101 | - | | | | | | | 31 | | | | | 36 | | | | | | | | | | | | |
| *15:106 | - | | | | 28 | | | 31 | 32 | | | | 36 | | | | | 41 | | 43 | | | | | |
| *15:116 | - | | | | | | | 31 | | | | | 36 | | | | | | | 43 | | | | | |
| *15:124 | - | | | | | | | | 32 | | | | 36 | | 38 | | | | | 43 | | | | | |
| *15:137 | - | | | | | | | 31 | | | | | | | | | | | | 43 | | | | | |
| *15:138 | - | 25 | | | | | | 31 | | | | | 36 | | | | | | | 43 | | | | | |
| *15:142 | - | | 26 | | | | | 31 | | | | | 36 | | | | | | | 43 | | | | | |
| *15:143 | - | | | | | | | 31 | 32 | | | | 36 | | | | | | | 43 | | | | | |
| *15:144 | - | | | | | | | 31 | | | | | 36 | | | | | 41 | | 43 | | | | | |
| *15:154, 15:165 | - | | | | | | | 31 | | | | | 36 | | | | | 41 | | 43 | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|-------------------|---------------------------|------------------------|--------|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | | |
| | | | | | | | | 57 | | | | | | | | | | | | | | 71 | | | B75(15), - | *15:21, 15:44 | | |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | | | - | *15:23, 15:115 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | 69 | 70 | | | B62(15), - | *15:24, 15:87, 15:157 | |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | | | B15 | *15:29 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | 69 | 71 | | | B62(15), - | *15:30, 15:58, 15:63 | |
| | | | | | | | | 57 | | | | | | | | | | | | | | | 71 | | | B75(15) | *15:31 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | 70 | | | | - | *15:36 | |
| | | | | | | | | | 59 | | | | 62 | | 64 | | | | | | | | 71 | | | | - | *15:42 |
| | | | | | | | | | | | | | 62 | | | | | | | | | 69 | 70 | | | | - | *15:43 |
| | | | | | | | | | | | | | 62 | | | | | | | | | 69 | 71 | | | B62(15) | *15:45 | |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 69 | 71 | | | B72(70) | *15:46 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | B62(15), - | *15:48, 15:150, 15:188 | |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 69 | 71 | | | - | *15:53, 15:212 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | 69 | 71 | | | - | *15:54 | |
| | | | | | | | | 57 | | | | | | | | | | | | | | | 71 | | | B15 | *15:55 | |
| | | | | | w | | | | | | | | 62 | | | | | | | | | 69 | 71 | | | - | *15:57 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | - | *15:62 | |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | | | - | *15:64 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | 69 | 71 | | | - | *15:66 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | 69 | 71 | | | B35 | *15:68 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | - | *15:69 | |
| | | | | | | | | | | | | | 62 | | | 65 | 67 | | | | | 69 | 71 | | | B62(15) | *15:73 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | - | *15:74 | |
| | | | 52 | | | | | w | | | | | | | | | | | | | | 69 | 71 | | | - | *15:76 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | | 69 | 71 | | | - | *15:77 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | | | B70 | *15:80 | |
| | | | | | 54 | | | | | | | | 62 | | | | | | | | | | 71 | | | - | *15:83 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | 69 | 71 | | | - | *15:85, 15:154, 15:165 | |
| | | | | | | | | | | | | | 62 | | 64 | | | | | | | | 71 | | | - | *15:86 | |
| | | | | | | | | 57 | | | | | | | | | | | | | | | 70 | | | - | *15:89 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | - | *15:91, 15:131 | |
| | | | 52 | | | | | | | | | | 62 | | | | | | | | | 69 | 71 | | | - | *15:101 | |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | | 71 | | | - | *15:106 | |
| 49 | | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | - | *15:116 | |
| 49 | | | | | | | | | | | | | | | | | | | | | | | 71 | | | - | *15:124 | |
| | | | | | | | | | w | | | | 62 | | | | | | | | | 69 | 71 | | | - | *15:137 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | - | *15:138 | |
| | | | | | | | | | | | | | 62 | | | | | | | | | 69 | 71 | | | - | *15:142 | |
| | | | | | | | | | | | | 61 | | | | | | | | | | 69 | 71 | | | - | *15:143 | |
| | | | | | | | | 57 | | | | | | | | | | | | | | 69 | 71 | | | - | *15:144 | |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | | | - | *15:161 | |
| | | | | | | | | | | | | | | | | | | | | | | 69 | 71 | | | - | *15:180 | |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | | | - | *15:186 | |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | | | | |

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Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|---|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B allele⁴ | ser.⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *15:189 | - | | | | | | 30 | 31 | | | | | 36 | | 38 | | | | | 43 | | | | | |
| *15:202, 15:239 | - | | | | | | | 31 | | | | | 36 | | | | | | 42 | 43 | | | | | |
| *15:222 | - | | | | | | | | | 33 | | | 36 | | 38 | | | | | 43 | | | | | |
| *15:224 | - | | | | | | | 31 | | | | | | | | | | | | 43 | | | | | |
| *15:230 | - | 25 | | | | | | 31 | | 33 | | | | | 38 | | | | | 43 | | | | | |
| *15:233 | - | | | | | | | 30 | 31 | | | | | | | | | | | 43 | | | | | |
| *15:236 | - | | | | | | | 31 | | | | | 36 | | | | | | | | | | | | |
| *15:241 | - | 25 | | | | | | 31 | | | | | 36 | | | | | | | 43 | | | | | |
| *15:243 | - | | | | | | | | | 32 | 33 | | | | 38 | | | | | 43 | | | | | |
| *18:01:01:01-18:03, 18:05-18:08, 18:10-18:11, 18:13-18:15, 18:17N-18:18, 18:20-18:21, 18:23N-18:25, 18:27-18:28, 18:30-18:36, 18:38-18:40, 18:42-18:43, 18:45-18:47, 18:50-18:53, 18:55, 18:57-18:60, 18:62-18:65, 18:68, 18:70-18:71 | B18, Null, - | | | | | | | | | | | | 36 | | 39 | | | | 42 | | | | | | |
| *18:04 | B18 | | | | | | | | | | | | 36 | | 39 | | | | 42 | | | | | | |
| *18:09 | B18 | | | | | | | | | | | | 36 | | 39 | | | | | | | | | | |
| *18:12 | - | | | | | | | | | | | | 36 | | 39 | | | | 42 | | | | | | |
| *18:19 | - | | | | | | | | | | | | 36 | | 39 | | | | 42 | | | | | | |
| *18:22, 18:69 | - | | | | | | | | | | | | 36 | | 39 | | | 41 | 42 | | | | | | |
| *18:26, 18:41, 18:61 | - | | | | | | | | | | | | | | 39 | | | | 42 | | | | | | |
| *18:29, 35:32:01-35:32:02, 35:37, 35:53N, 35:64, 35:68:01-35:68:02, 35:99, 35:118-35:119, 35:174 ⁹ | B35, Null, - | | | | | | | | | | | | 36 | | | | | | 42 | | | | | | |
| *18:37 | - | | | | | | | | | | | 35 | 36 | | 39 | | | | | | | | | | |
| *18:44 | - | | | | 28 | | | | | | | | 36 | | 39 | | | | 42 | | | | | | |
| *18:48 | - | | | | | | | | | | | | 36 | | 39 | | | | | | | | | | |
| *18:49 | - | | | | | | | | | | | | 36 | | 39 | | | | | | | | | | |
| *18:54 | - | | | | | | | | | | | | 36 | 37 | 39 | | | | | | 44 | | | | |
| *18:56 | - | | | | | | | | | | | | 36 | 37 | 39 | | | | 42 | | | | | | |
| *18:66 | - | | | | | | | | | | | | 36 | | 39 | | | | | | | | | | |
| *18:67 | - | | | | | | | | | | | | 36 | | 39 | | | | | | | | | | |
| *27:01 | B27 | | | | | 29 | | | | | | | | | | | 40 | | | | | | | | |
| *27:02:01-27:02:02, 27:53, 27:57, 27:65N, 27:83 | B27, Null, - | | | | | 29 | | | | | | | | | | | 40 | | | | | | | | |
| *27:03-27:05:15, 27:05:17-27:06, 27:09-27:10, 27:13, 27:17, 27:20, 27:27, 27:31, 27:35-27:37, 27:45-27:46, 27:48-27:51, 27:54-27:56, 27:58, 27:60-27:61, 27:64N, 27:66N, 27:68-27:69, 27:72-27:74, 27:78-27:80, 27:82, 27:84-27:88 | B27, Null, - | | | | | 29 | | | | | | | | | | | 40 | | | | | | | | |
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Lot-specific information

| Lot No.: 30R | | | | | | | | | | | | Lot-specific information | | | | | | | | | | | | Well No. | |
|---------------------|----|----|----|----|----|----|----|----|----|----|----|--------------------------|----|----|----|----|----|----|----|----|----|----|----|-------------------|---|
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | ser. ⁵ | HLA-B allele ⁴ |
| | | | | | | | | 57 | | | | | | | | | | | | 69 | 71 | | | - | *15:189 |
| | | | | | | | | | | | | | 62 | | | | | | | 69 | 71 | | | - | *15:202, 15:239 |
| | | | | | | | | | | | | | | | | | | | | 70 | | | | - | *15:222 |
| | | | | | | | | | | | | | 62 | 64 | | | 67 | | | | 71 | | | - | *15:224 |
| | | | | | | | | | | | | | | | | | | | | 70 | | | | - | *15:230 |
| | | | | | | | | | | | | | 62 | | | | | | | 69 | 71 | | | - | *15:233 |
| | | | | | | | | | | | | | 62 | | | | | | | 69 | 71 | | | - | *15:236 |
| | | | | | | | | | | | | | 62 | | | | | | | 69 | 71 | | | - | *15:241 |
| | | | | | | | | | | | | | 62 | | | | | | | | 71 | | | - | *15:243 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | B18, Null, - | *18:01:01:01-18:03, 18:05-18:08, 18:10-18:11, 18:13-18:15, 18:17N-18:18, 18:20-18:21, 18:23N-18:25, 18:27-18:28, 18:30-18:36, 18:38-18:40, 18:42-18:43, 18:45-18:47, 18:50-18:53, 18:55, 18:57-18:60, 18:62-18:65, 18:68, 18:70-18:71 |
| | | | | | | | | | | | | | | 64 | | | | | 68 | | | 71 | | B18 | *18:04 |
| | | | | | | | | | | | | | | | | | | | 68 | | 70 | | | B18 | *18:09 |
| | | | | | | | | | | | | | 62 | | | | | | | | | 71 | | - | *18:12 |
| | | | | | | | | | | | | | | | | | | | 68 | 69 | | 71 | | - | *18:19 |
| | | | | | | 55 | | | | | | | | | | | | | 68 | | | 71 | | - | *18:22, 18:69 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | - | *18:26, 18:41, 18:61 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | B35, Null, - | *18:29, 35:32:01-35:32:02, 35:37, 35:53N, 35:64, 35:68:01-35:68:02, 35:99, 35:118-35:119, 35:174 ⁹ |
| | | | | | | | | | | | | | | | | | | | | | | 71 | | - | *18:37 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | - | *18:44 |
| 50 | | | | | | | | | | | | 61 | | | | | | | | | | 71 | | - | *18:48 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | - | *18:49 |
| | | | | | | | | | | | | | | | | | | | 68 | | 70 | | | - | *18:54 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | - | *18:56 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | | - | *18:66 |
| | | | | | | | | | | | 60 | | | | | | | | 68 | | | 70 | | - | *18:67 |
| | | | 52 | | | | w | | | | | | 62 | | | | | | | | | 70 | | B27 | *27:01 |
| | | | 52 | | | | 56 | | | | 60 | 62 | | | | | | | | | | 70 | | B27, Null, - | *27:02:01-27:02:02, 27:53, 27:57, 27:65N, 27:83 |
| | | | 52 | | | | 56 | | | | | 62 | | | | | | | | | | 70 | | B27, Null, - | *27:03-27:05:15, 27:05:17-27:06, 27:09-27:10, 27:13, 27:17, 27:20, 27:27, 27:31, 27:35-27:37, 27:45-27:46, 27:48-27:51, 27:54-27:56, 27:58, 27:60-27:61, 27:64N, 27:66N, 27:68-27:69, 27:72-27:74, 27:78-27:80, 27:82, 27:84-27:88 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|--|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *27:05:16, 27:07:01-27:07:02, 27:11, 27:15, 27:21, 27:28, 27:32, 27:34, 27:38, 27:43, 27:47, 27:63, 27:70-27:71, 27:76 | B27, - | | | | | | | | | | | | | | | | 40 | | | | | | | | | |
| *27:08, 27:26, 27:40, 27:42, 27:44, 27:89 | B2708, - | | | | | 29 | | | | | | | | | | | 40 | | | | | | | | | |
| *27:12 | B27 | | | | | 29 | | | | | | | | | | | 40 | | | | | | | | | |
| *27:14, 27:81 | B27, - | | | | | | | | | | | | | | | | 40 | | | | | | | | 48 | |
| *27:16, 27:39, 27:59N | Null, - | | | | | 29 | | | | | | | | | | | 40 | | | | | | | | | |
| *27:18 | - | | | | | 29 | | | | | 35 | | | | | | 40 | | | | | | | | | |
| *27:19 | B27 | | | | | | | | | | | | | | | | 40 | 41 | | | | | | | | |
| *27:23 | - | | | | | 29 | | | | | | | | | | | 40 | | | | | | | | | |
| *27:24 | - | | | | | | | | | | | | | | | | 40 | | | | | | | | | |
| *27:25 | - | | | | | | | | | | | | | | | | 40 | | | | | | | | | |
| *27:29 | B27 | | | | | 29 | | | | | 35 | | | | | | 40 | | | | | | | | | |
| *27:30 | B27 | | | | | | | | | | | | | | | | 40 | 41 | | | | | | | | |
| *27:33 | - | | | | | | | | | | | | | | | | 40 | | | | | | | | | |
| *27:41 | - | | | | | 29 | | | | | 36 | | | | | | 40 | | | | | | | | | |
| *27:52, 27:67 | - | | | | | 29 | | | | | | | | | | | | | | | | | | | | |
| *27:62 | - | | | | | | | | | | | | | | | | 40 | | | | | | | | | |
| *27:75 | - | | | | | 29 | | | | | | | | | | | | | | | | | | | | |
| *27:77 | - | | | | | 29 | | | | | | | | | | | 40 | | | | | | | | | |
| *35:01:01:01-35:01:09, 35:01:11- 35:01:31, 35:07-35:08:04, 35:11:01-35:11:02, 35:15, 35:20:01-35:20:02, 35:23, 35:29:01-35:29:02, 35:40N- 35:42:01, 35:48, 35:50, 35:52, 35:54, 35:57, 35:61, 35:77- 35:78, 35:82, 35:90-35:94, 35:100-35:101:02, 35:103- 35:105, 35:107-35:108:02, 35:110-35:112, 35:116, 35:120- 35:124, 35:126, 35:130N- 35:134N, 35:137-35:148, 35:158- 35:159, 35:161, 35:165N- 35:166, 35:168, 35:170-35:171, 35:173N, 35:175-35:178, 35:180, 35:187, 35:189, 35:192, 35:194, 35:196-35:197, 35:200 | B35, Null, - | | | | | | | | | | | | 36 | | | | | 41 | 42 | | | | | | | |
| *35:01:10 | B35 | | | | | | | | | 33 | | 36 | | | | | 41 | 42 | | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ |
| | | | 52 | | | | 56 | | | | | | 62 | | | | | | | | | 70 | | | B27, - *27:05:16, 27:07:01-27:07:02, 27:11, 27:15, 27:21, 27:28, 27:32, 27:34, 27:38, 27:43, 27:47, 27:63, 27:70-27:71, 27:76 |
| | | | 52 | | | | 56 | | | | | | 62 | | | | | | | | | 71 | | | B2708, - *27:08, 27:26, 27:40, 27:42, 27:44, 27:89 |
| | | | | | | | | | | | | | 62 | | | | | | | | | 71 | | | B27 *27:12 |
| | | | 52 | | | | 56 | | | | | | 62 | | | | | | | | | 70 | | | B27, - *27:14, 27:81 |
| | | | | | | | | | | | | | 62 | | | | | | | | | 70 | | | Null, - *27:16, 27:39, 27:59N |
| | | | | | | | | | | | | | 62 | | | | | | | | | 71 | | | - *27:18 |
| | | | 52 | | | | 56 | | | | | | 62 | | | | | | | | | 70 | | | B27 *27:19 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | | - *27:23 |
| | | | 52 | | | | 56 | 57 | | | | | 62 | | | | | | | | | 70 | | | - *27:24 |
| | | | 52 | | | | 56 | | | | | | 62 | | | | | | | | 69 | 70 | | | - *27:25 |
| | | | | | | | | | | | | | 62 | | | | | | | | | 70 | | | B27 *27:29 |
| | | | 52 | | | | 56 | | | | 60 | | 62 | | | | | | | | | 70 | | | B27 *27:30 |
| | | | 52 | | | | 56 | | | | | | 62 | | | | | | | | | 71 | | | - *27:33 |
| | | | 52 | | | | 56 | | | | | | 62 | | | | | | | | | 70 | | | - *27:41 |
| | | | 52 | | | | 56 | | | | | | 62 | | | | | | | | | 70 | | | - *27:52, 27:67 |
| | | | 52 | | | | 56 | | | | 60 | | 62 | | | | | | | | | 70 | | | - *27:62 |
| | | | 52 | | | | 56 | | | | 60 | | 62 | | | | | | | | | 69 | 70 | | - *27:75 |
| | | | | | | | | | | | 60 | | 62 | | | | | | | | | 70 | | | - *27:77 |
| | | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | B35, Null, - *35:01:01:01-35:01:09, 35:01:11- 35:01:31, 35:07-35:08:04, 35:11:01-35:11:02, 35:15, 35:20:01-35:20:02, 35:23, 35:29:01-35:29:02, 35:40N- 35:42:01, 35:48, 35:50, 35:52, 35:54, 35:57, 35:61, 35:77- 35:78, 35:82, 35:90-35:94, 35:100-35:101:02, 35:103- 35:105, 35:107-35:108:02, 35:110-35:112, 35:116, 35:120- 35:124, 35:126, 35:130N- 35:134N, 35:137-35:148, 35:158 35:159, 35:161, 35:165N- 35:166, 35:168, 35:170-35:171, 35:173N, 35:175-35:178, 35:180, 35:187, 35:189, 35:192, 35:194, 35:196-35:197, 35:200 |
| | | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | B35 *35:01:10 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|---|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *35:02:01-35:03:02, 35:03:04-35:04:01, 35:04:03, 35:06, 35:12:01-35:12:03, 35:33-35:34, 35:36, 35:39, 35:55, 35:59, 35:65Q, 35:70, 35:74, 35:83-35:85, 35:95, 35:98, 35:106, 35:128-35:129N, 35:136, 35:149-35:150, 35:152-35:153, 35:155-35:156, 35:160, 35:162, 35:167, 35:172, 35:179, 35:181-35:184, 35:193, 35:195 | B35, Null, - | | | | | | | | | | | | | | | | | 41 | 42 | | | | | | | |
| *35:03:03, 35:56 | B35, - | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *35:04:02 | B35 | | | | | | | | | 33 | | | | | | | | 41 | 42 | | | | | | | |
| *35:05:01-35:05:02, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114 | B35, - | | | 27 | | | | | | | | | 36 | | | | | | 42 | | | | | | | |
| *35:08:05 | - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *35:09:01-35:09:03, 35:18, 35:31, 35:75, 35:88, 35:127, 35:151 | B35, - | | | | | | | | | | | | | | | | | | 42 | | | | | | | |
| *35:10, 35:28, 35:69, 35:80 | B35, - | | | | | | | | | | | | 36 | | | | | 41 | 42 | | | | | | | |
| *35:13 | B35 | | | | | | | | | | | | | | | | | 41 | 42 | | | | | | | |
| *35:14:01-35:14:02, 35:62 | B35, - | | | | | | | | | | | | 36 | | | | | 41 | 42 | | | | | | | |
| *35:16 | B35 | | | 27 | | | | | | | | | 36 | | | | | 41 | 42 | | | | | | | |
| *35:17, 35:30, 35:113, 35:125 | B35, - | | | 27 | | | | | | | | | 36 | | | | | 41 | 42 | | | | | | | |
| *35:19 | B35 | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *35:21, 35:24:01-35:24:02, 35:188, 35:190 | - | | | | | | | | | | | | 36 | | | | | 41 | 42 | | | | | | | |
| *35:22, 35:199 | - | | | 27 | | | | | | | | | | | | | | | 42 | | | | | | | |
| *35:25, 35:49 | B35, - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *35:26 | - | | | | | | 30 | | | | | | 36 | | | | | 41 | | | | | | | | |
| *35:27 | B35 | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *35:35 | B35 | | | | | | | | | | | | 36 | | | | | 41 | 42 | | | 45 | | | | |
| *35:38, 35:169 | - | | | | | | | | | | | | | | | | | 41 | 42 | | | | | | | |
| *35:42:02 | - | | | | | | | | | | | | 36 | | | | | 41 | 42 | | | | | | | |
| *35:43, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135 | B35, - | | | | | | | | | | | | 36 | | | | | | 42 | | | | | | | |
| *35:44 | B35 | | | | | | | | | | | | | | | | | | 42 | | | | | | | |
| *35:45, 35:71 | - | | | | | | | | | | | | 36 | 37 | | | | 41 | 42 | | | | | | | |
| *35:46 | B35 | | | | 28 | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *35:47 | - | | | | 28 | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *35:60 | B35 | | | | | | | | | | | | | | | | | | 42 | | | | | | | |
| *35:63 | - | | | | 28 | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *35:66 | - | | | | | | | | | | | | 36 | | | | | | 42 | | | | | | | |
| *35:76 | B35, 22 | | | | | | | | | | | | 36 | | | | | 41 | 42 | | | | | | | |
| *35:81, 35:96, 35:109, 35:157 | - | | | | | | | | | | | | | | | | | 41 | 42 | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | B35, Null, - | *35:02:01-35:03:02, 35:03:04-35:04:01, 35:04:03, 35:06, 35:12:01-35:12:03, 35:33-35:34, 35:36, 35:39, 35:55, 35:59, 35:65Q, 35:70, 35:74, 35:83-35:85, 35:95, 35:98, 35:106, 35:128-35:129N, 35:136, 35:149-35:150, 35:152-35:153, 35:155-35:156, 35:160, 35:162, 35:167, 35:172, 35:179, 35:181-35:184, 35:193, 35:195 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | B35, - | *35:03:03, 35:56 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | B35 | *35:04:02 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | B35, - | *35:05:01-35:05:02, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114 |
| | | | | | | | | | | | | | | | 64 | | | | | | | 71 | | | - | *35:08:05 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | B35, - | *35:09:01-35:09:03, 35:18, 35:31, 35:75, 35:88, 35:127, 35:151 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | B35, - | *35:10, 35:28, 35:69, 35:80 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | B35 | *35:13 |
| | | | | | | | | | | | | | | | | | | | 68 | 69 | | 71 | | | B35, - | *35:14:01-35:14:02, 35:62 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | | B35 | *35:16 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | B35, - | *35:17, 35:30, 35:113, 35:125 |
| | | | | | | | | | | | | 61 | | | | | | | | | | 71 | | | B35 | *35:19 |
| | | | | | | 55 | | | | | | | | | | | | | 68 | | | 71 | | | - | *35:21, 35:24:01-35:24:02, 35:188, 35:190 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | - | *35:22, 35:199 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | | | B35, - | *35:25, 35:49 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | | | - | *35:26 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | B35 | *35:27 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | B35 | *35:35 |
| | | | | | | 53 | | | | | | | | | | | | | 68 | | | 71 | | | - | *35:38, 35:169 |
| | | | | | | | | | | | | | | | 64 | | | | 68 | | | 71 | | | - | *35:42:02 |
| | | | | | | | | | | | | | | | | | | | 68 | 69 | | 71 | | | B35, - | *35:43, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135 |
| | | | | | | | | | | | | | | | | | | | 68 | 69 | | 71 | | | B35 | *35:44 |
| | | | | | | 53 | | | | | | | | | | | | | 68 | | | 71 | | | - | *35:45, 35:71 |
| | | | | | | | | | | 57 | | | | | | | | | | | | 71 | | | B35 | *35:46 |
| | | | | | | | | | | | | 61 | | | | | | | | | | 71 | | | - | *35:47 |
| | | | | | | | | | | | | | | | 64 | | | | 68 | | | 71 | | | B35 | *35:60 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | | - | *35:63 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | 72 | | - | *35:66 |
| | | | | | | 52 | | | | | | | | | | | | | w | | | 71 | | | B35, 22 | *35:76 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 71 | | | - | *35:81, 35:96, 35:109, 35:157 |
| | | | | | | 55 | | | | | | | | | | | | | | | | 71 | | | - | *35:81, 35:96, 35:109, 35:157 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | | Well No. | |

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 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | |
|--|-----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *35:87 | - | | | | | | | | 32 | | | | | | | | | | 42 | | | | | | | | |
| *35:115 | - | | | | | | | | | | | | 36 | | | | | | 41 | 42 | | | | | | | |
| *35:154 | - | | | | 28 | | | | | | | | | | | | | | 41 | | | | | | | | |
| *35:163 | - | | | | | | | | | | | | | | | | | | 41 | 42 | | | | | | | |
| *35:164 | - | | | | 27 | | | | | | | | | | | | | | 41 | 42 | | | | | | | |
| *35:185 | - | | | | | | | | | | | | 36 | | | | | | | 42 | | | | | | | |
| *35:186 | - | | | | | | | | | | | | 36 | | | | | | 41 | 42 | | | | | | | |
| *35:191 | - | | | | | | | | | | | | 36 | | | | | | 41 | 42 | | | | | | | |
| *35:198 | - | | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *37:01:01-37:01:07, 37:03N, 37:06, 37:13, 37:15-37:21, 37:23- 37:27, 37:30N-37:33N | B37, Null, - | | | | | | | | | | | | | | 37 | | | | 41 | | | 44 | | | | | |
| *37:01:08, 37:09 | B37, - | | | | | | | | | | | | | | 37 | | | | | | | 44 | | | | | |
| *37:02 | - | | | | | 29 | | | | | | | | 37 | | | | | | | 44 | | | | | | |
| *37:04:01-37:04:02 | B37, - | | | | | | | | | | | | | | 37 | | | | 41 | | | 44 | | | | | |
| *37:05 | - | | | | | | | | | | | | | | 37 | | | | 41 | | | 44 | | | | | |
| *37:07 | - | 25 | | | | | | | | | | | | | 37 | | | | | | | 44 | | | | | |
| *37:08 | B37 | | | | | | | | | | | | | | 37 | | | | 41 | | | 44 | | | | | |
| *37:10, 37:22, 37:29 | B37, - | | | | | | | | | | | | | | | | | | 41 | | | 44 | | | | | |
| *37:11 | - | | | | | | | | | | | | | | | | | | 41 | 42 | | | 44 | | | | |
| *37:12 | - | | | | | | | | 32 | | | | | | 37 | | | | | | | 44 | | | | | |
| *37:14 | - | | | | | | | | | | | | | | | | | | 41 | | | 44 | | | | | |
| *37:28 | - | | | | | | | | | | | 35 | | 37 | | | | | 41 | | | 44 | | | | | |
| *38:01:01-38:02:02, 38:08- 38:09, 38:11-38:16, 38:18-38:19, 38:21, 38:23-38:24, 38:27-38:29, 38:31-38:32, 38:34N, 38:38- 38:40 | B38(16), B16, Null, - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | 46 | 47 | | |
| *38:02:03 | - | | | | | | | | | | | | | | | | | | | | | | 45 | | 47 | | |
| *38:03 | B16 | | | | | 29 | | | | | | 35 | | | | | | | | | | | 45 | 46 | | | |
| *38:04, 38:25 | - | | | | | | | | | | | | | | | | | | | | | | 45 | | 47 | | |
| *38:05, 38:33 | B38(16), - | | | | | | 30 | | | | | | | | | | | | | | | | 45 | 46 | 47 | | |
| *38:06 | - | | | | | | | | | | | | | | | | | | | | | | 45 | | | | |
| *38:07 | - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | | | | |
| *38:10, 38:36-38:37 | - | | | | | 29 | | | | | | | | | | | | | | | | | | 46 | 47 | | |
| *38:17 | - | | | | | 29 | | | | | | | | 37 | | | | | | | | 44 | 45 | 46 | 47 | | |
| *38:20 | - | | | | | 29 | | | | | | | | | | | | | 41 | | | | 45 | 46 | 47 | | |
| *38:22 | - | | | | | 29 | | | | | | | | | | | 40 | | | | | | 46 | 47 | | | |
| *38:26 | - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | 46 | | | |
| *38:30 | - | | | | | 29 | | | 32 | | | | | | | | | | | | | | | 46 | 47 | | |
| *38:35 | - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | | 47 | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | |

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-----------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | 51 | | | | | | | | | | | | | | | | | 68 | | | 71 | 72 | - | *35:87 |
| | | | | 53 | | | | | | | | | | | | | | | 68 | | | | 71 | - | *35:115 |
| | | | | | | | | | | | 61 | | | | | | | | | | | | 71 | - | *35:154 |
| | | | | | | | | | | | | | | | | | | | 68 | 69 | | | 71 | - | *35:163 |
| | | | | | | | | | | | | | | | | | | | 68 | | | | 71 | - | *35:164 |
| | | | | | | | | | | | | | 64 | | | | | | 68 | 69 | | | 71 | - | *35:185 |
| | | 52 | | | | | 56 | | | | | | | | | | | | | | | | 71 | - | *35:186 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | - | *35:191 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | - | *35:198 |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | B37, Null, - | *37:01:01-37:01:07, 37:03N, 37:06, 37:13, 37:15-37:21, 37:23 37:27, 37:30N-37:33N |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | B37, - | *37:01:08, 37:09 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | - | *37:02 |
| | | | | 53 | | 55 | | | | | | 62 | | | | | | | | | | 70 | | B37, - | *37:04:01-37:04:02 |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | | 71 | - | *37:05 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | 72 | - | *37:07 |
| | | | | 53 | | | | | | | | | | | | | | | 68 | | | 70 | | B37 | *37:08 |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | B37, - | *37:10, 37:22, 37:29 |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | | 71 | - | *37:11 |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | - | *37:12 |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | w | - | *37:14 |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | - | *37:28 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | B38(16), B16, Null, - | *38:01:01-38:02:02, 38:08- 38:09, 38:11-38:16, 38:18-38:19, 38:21, 38:23-38:24, 38:27-38:29, 38:31-38:32, 38:34N, 38:38- 38:40 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | - | *38:02:03 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | B16 | *38:03 |
| | | | | | | | | | | | 62 | | | | | | | | | | | 70 | | - | *38:04, 38:25 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | B38(16), - | *38:05, 38:33 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 70 | | - | *38:06 |
| | | | | | | | | | | | | | | | | | | | 68 | | | 70 | | - | *38:07 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | - | *38:10, 38:36-38:37 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | - | *38:17 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | - | *38:20 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | - | *38:22 |
| | | | | 52 | | | | | | | | | | | | | | | | | | 70 | | - | *38:26 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | - | *38:30 |
| | | | | | | | | | | | | | | | | | | | | | | 70 | | - | *38:35 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|--|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *39:01:01:01-39:01:01:02L, 39:01:03-39:01:08, 39:01:10- 39:01:12, 39:03, 39:05:01- 39:06:02, 39:09, 39:11, 39:14- 39:15, 39:24:01, 39:26-39:29, 39:31, 39:35, 39:37-39:38Q, 39:40N-39:41, 39:44, 39:46, 39:48, 39:51-39:57, 39:59-39:62, 39:64-39:68, 39:70-39:71, 39:73 | B39(16), B3901, Low B39, Null, - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | | 47 | 48 |
| *39:01:09, 39:12, 39:45, 39:72 | B39(16), B3901, - | | | | | | | | | | | | | | | | | | | | | | 45 | | 47 | 48 |
| *39:02:01, 39:08 | B39(16), B3902 | | | | | 29 | | | | | | 35 | | | | | | | | | | | 45 | | | 48 |
| *39:02:02, 39:13:01-39:13:02, 39:23, 39:49 | B3902, B39(16), - | | | | | | | | | | | 35 | | | | | | | | | | | 45 | | | 48 |
| *39:04 | B39(16) | | | | | | 30 | | | | | | | | | | | | | | | | 45 | | 47 | 48 |
| *39:07 | - | | | | | 29 | | | | | | | 36 | | | | | | | | | | 45 | | 47 | 48 |
| *39:10:01-39:10:02, 39:16, 39:20 | B39(16), - | | | | | | | | | | | | | | | | | | | | | | 45 | | | 48 |
| *39:17 | - | | | | | | | | | | | | | | | | | | | | | | 45 | | | 48 |
| *39:18 | - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | | 47 | 48 |
| *39:19:01 | B39(16) | | | | | | | | | | | | | | | | | | 42 | | | | 45 | | 47 | 48 |
| *39:19:02 | B39(16) | | | | | 29 | | | | | | | | | | | | | 42 | | | | 45 | | 47 | 48 |
| *39:22 | - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | | 47 | 48 |
| *39:24:02 | - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | | 47 | |
| *39:36 | - | | | | | 29 | | | | | | | | | | | | | | | | | | | 47 | 48 |
| *39:39:01 | - | | | | | 29 | | | | | | | 35 | | | | | | | | | | 45 | | | 48 |
| *39:39:02 | - | | | | | | | | | | | | 35 | | | | | | | | | | 45 | | | 48 |
| *39:42 | - | | | | | 29 | | | | | | | | | | | | | 41 | | | | 45 | | 47 | 48 |
| *39:43 | - | | | | | 29 | | | | | | | 36 | | | | | | | | | | | | 47 | 48 |
| *39:58 | - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | | | 48 |
| *39:63 | - | | | | | | | | | | | | | | | | | | | | | | 45 | | | 48 |
| *39:69 | - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | | 47 | 48 |
| *40:01:01-40:01:06, 40:01:08- 40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:24, 40:07, 40:51, 40:66, 40:73, 40:79, 40:124:01, 40:139-40:140, 40:146-40:147, 40:150, 40:152-40:153, 40:155N, 40:172, 40:186 | B60(40), Null, - | | | | | | 28 | | | | | | | | | | | | | | | | | | | 48 |
| *40:01:07, 40:01:18, 40:72:01, 40:77 | B60(40), - | | | | | | 28 | | | | | | | | | | | | | | | | | | | 48 |
| *40:01:11 | - | | | | | 28 | | | | | | | | | | | | | | | | | | | | 48 |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ |
| | | | | | | | | | | | | | | | | | | | | | | 71 | | B39(16), B3901, Low B39, Null, - | *39:01:01-01-39:01:01:02L, 39:01:03-39:01:08, 39:01:10- 39:01:12, 39:03, 39:05:01- 39:06:02, 39:09, 39:11, 39:14- 39:15, 39:24:01, 39:26-39:29, 39:31, 39:35, 39:37-39:38Q, 39:40N-39:41, 39:44, 39:46, 39:48, 39:51-39:57, 39:59-39:62, 39:64-39:68, 39:70-39:71, 39:73 |
| | | | | | | | | | | | | | | | | | | | | | | 71 | | B39(16), B3901, - | *39:01:09, 39:12, 39:45, 39:72 |
| | | | | | | | | | | | | 62 | | | | | | | | | | | 71 | B39(16), B3902 | *39:02:01, 39:08 |
| | | | | | | | | | | | | 62 | | | | | | | | | | | 71 | B3902, B39(16), - | *39:02:02, 39:13:01-39:13:02, 39:23, 39:49 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | B39(16) | *39:04 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | - | *39:07 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | B39(16), - | *39:10:01-39:10:02, 39:16, 39:20 |
| | | | | | | | | | | | | | 64 | | | 67 | | | | | | | 71 | - | *39:17 |
| | | | | | | | | | | | | | | | | | | | | 69 | | | 71 | - | *39:18 |
| | | | | | | | | | | | | | | | | | | | | 68 | | | 71 | B39(16) | *39:19:01 |
| | | | | | | | | | | | | | | | | | | | | 68 | | | 71 | B39(16) | *39:19:02 |
| | | | | | | | | | | | | 62 | | | | | | | | | | | 71 | - | *39:22 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | - | *39:24:02 |
| | | | | | | | | | | | | | | | | | | | | | 69 | | 71 | - | *39:36 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | - | *39:39:01 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | - | *39:39:02 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | - | *39:42 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | - | *39:43 |
| | | | | | | | | | | | | | | | | | | | | | | | 71 | - | *39:58 |
| | | | | | | | | | | | | | 64 | | | | | | | | | | 71 | - | *39:63 |
| | | | | | | | | | | | | 61 | | | | | | | | | | | 71 | - | *39:69 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | | 71 | B60(40), Null, - | *40:01:01-40:01:06, 40:01:08- 40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:24, 40:07, 40:51, 40:66, 40:73, 40:79, 40:124:01, 40:139-40:140, 40:146-40:147, 40:150, 40:152-40:153, 40:155N, 40:172, 40:186 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | | 71 | B60(40), - | *40:01:07, 40:01:18, 40:72:01, 40:77 |
| 49 | | | | | | | | | | | | 61 | 62 | 64 | | | | | | | | | 71 | - | *40:01:11 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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 101.701.24u/06u – without *Tag* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|--|-----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:02:01-40:02:15, 40:04, 40:06:05, 40:39, 40:89, 40:94, 40:97, 40:122, 40:142N- 40:144N | B61(40), B41, Null, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:03, 40:20 | B61(40) | | | | | | | | | | | | 36 | | | | | | | | | | | | |
| *40:05 | B4005 | | | 27 | | | | | | | | | | | | | | | | | | | | | |
| *40:06:01:01-40:06:04, 40:70 | B61(40), - | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *40:08 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:09, 40:11:01-40:11:02, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:50, 40:56-40:57, 40:64, 40:78, 40:82, 40:85, 40:90-40:91, 40:99, 40:104, 40:107, 40:111, 40:115, 40:119-40:120, 40:133Q, 40:145, 40:169, 40:173, 40:176, 40:180-40:181, 40:189 | B61(40), B40, - | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:10:01-40:10:02 | B60(40), - | | | | 28 | | | | | | | | | | | | | | | | | | | | |
| *40:12 | - | | | | | | | | 32 | | | 35 | | | | | | | 43 | | | | | | |
| *40:13 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:14:01-40:14:03, 40:121, 40:129, 40:164, 40:192 | B60(40), - | | | | 28 | | | | | | | | | | | | | | | | | | | | ? |
| *40:15, 40:32 | - | 25 | | | 28 | | | | | | | | | | | | | | | | | | | | ? |
| *40:16 | B61(40) | 25 | | | 28 | | | | | | | | | | | | | | | | | | | | 48 |
| *40:19 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:21 | - | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:22N, 40:33, 40:36, 40:42- 40:43, 40:49, 40:54-40:55, 40:61- 40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:108, 40:112- 40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:163, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193 | B60(40), Null, - | | | | 28 | | | | | | | | | | | | | | | | | | | | ? |
| *40:23 | - | 25 | | | 28 | | | | | | | | | | | | | | | | | | | | 48 |
| *40:25, 40:69, 40:106 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | ? |
| *40:26 | B21 | | | | | | | | | | | 33 | | | | | | | | | | | | | ? |
| *40:28 | - | | | | | | | | | | | 33 | | | | | | 41 | | | | | | | ? |
| *40:30, 40:34, 40:160 | B60(40), - | | | | 28 | | | | | | | | | | | | | | | | | | | | ? |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-----------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | 50 | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B61(40), B41, Null, - | *40:02:01-40:02:15, 40:04, 40:06:05, 40:39, 40:89, 40:94, 40:97, 40:122, 40:142N- 40:144N |
| | 50 | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B61(40) | *40:03, 40:20 |
| | 50 | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B4005 | *40:05 |
| | 50 | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B61(40), - | *40:06:01:01-40:06:04, 40:70 |
| | 50 | | | | | | | | | | | 61 | | | | | | | | | | 71 | | - | *40:08 |
| | ? | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B61(40), B40, - | *40:09, 40:11:01-40:11:02, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:50, 40:56-40:57, 40:64, 40:78, 40:82, 40:85, 40:90-40:91, 40:99, 40:104, 40:107, 40:111, 40:115, 40:119-40:120, 40:133Q, 40:145, 40:169, 40:173, 40:176, 40:180-40:181, 40:189 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B60(40), - | *40:10:01-40:10:02 |
| 49 | | | | | | | | | | | | | 62 | | | | | | | | | 71 | | - | *40:12 |
| | 50 | | | | | | | | 58 | | 60 | | 62 | | | | | | | | | 70 | | - | *40:13 |
| | ? | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B60(40), - | *40:14:01-40:14:03, 40:121, 40:129, 40:164, 40:192 |
| | ? | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | 72 | - | *40:15, 40:32 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | 72 | B61(40) | *40:16 |
| | ? | | | | | | | | 58 | | 60 | | 62 | | | | | | | | | 70 | | - | *40:19 |
| 49 | | | | | | | | | | | | | 62 | | | | | | | | | 71 | | - | *40:21 |
| 49 | ? | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B60(40), Null, - | *40:22N, 40:33, 40:36, 40:42- 40:43, 40:49, 40:54-40:55, 40:61- 40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:108, 40:112- 40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:163, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - | *40:23 |
| 49 | ? | | | | | | | | | | | 61 | | | | | | | | | | 71 | | - | *40:25, 40:69, 40:106 |
| | ? | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B21 | *40:26 |
| | ? | | | | | | 55 | | | | | 61 | 62 | | | | | | | | | 71 | | - | *40:28 |
| 49 | ? | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | 72 | B60(40), - | *40:30, 40:34, 40:160 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|--|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:31, 40:45, 40:80 | B60(40), - | | | | 28 | | | | | | | | | | | | | | | | | | | | | ? |
| *40:38, 40:52 | B60(40), - | | | | 28 | | | | | | | | 36 | | | | | | | | | | | | | ? |
| *40:40 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:162, 40:165, 40:167, 40:190 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *40:46 | - | | | | | | | | | | | 35 | | | | | 40 | | | | | | | | | ? |
| *40:47, 40:188 | B40, - | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *40:48 | B60(40) | | | | 28 | | | | | | 34 | | | | | | | | | | | | | | | ? |
| *40:53, 40:72:02 | B61(40), - | | | | 28 | | | | | | | | | | | | | | | | | | | | | 48 |
| *40:58 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | ? |
| *40:59 | - | | | | 28 | | | | | | | | 36 | | | | | | | | | | | | | 48 |
| *40:60 | - | | | | 28 | | | | | | | | 36 | | | | | | | | | | | | | 48 |
| *40:68 | - | | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:71 | - | | | | 27 | | | | | | | | | | | | | | | | | | | | | ? |
| *40:74, 40:149 | - | | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:76 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *40:83, 40:177 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *40:93 | - | | | | | | | | | | | 35 | | | | | 40 | | | | | | | | | 48 |
| *40:95 | - | | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:96 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *40:98 | - | 25 | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:105 | - | | | | | | | | | | | | 36 | | | | | | | | | | | | | ? |
| *40:109 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *40:110 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | 48 |
| *40:117 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *40:132, 40:178 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | ? |
| *40:135 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *40:136 | - | 25 | | | 28 | | | | 32 | | | | | | | | 38 | | | | | | | | | ? |
| *40:137 | - | | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:138 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *40:148, 40:161 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *40:157 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:158 | - | 25 | | | 28 | | | | | | | | 36 | | | | | | | | | | | | | ? |
| *40:159 | - | | | | | | | | | | | | 36 | | | | | | | | | | | | | 48 |
| *40:166 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | ? |
| *40:170 | - | | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:174 | - | | | | 27 | | | | | | | | | | | | | | | | | | | | | ? |
| *40:183 | - | 25 | | | 28 | | | | | | | | | | | | | | | | | | | | | ? |
| *40:184 | - | | | | | | | | | | | | | | | | | | | | | | | 45 | | ? |
| *40:185 | - | | | | | | | | | | | | | | | | | | 42 | | | | | | | ? |
| *41:01, 41:06-41:07, 41:12, 41:14, 41:16-41:17, 41:20 | B41, - | | | | 28 | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ HLA-B allele ⁴ |
| | | | | | | | | 57 | | | | 61 | 62 | | | | | | | | | 71 | 72 | B60(40), - *40:31, 40:45, 40:80 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B60(40), - *40:38, 40:52 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:40 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:162, 40:165, 40:167, 40:190 |
| 49 | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | - *40:46 |
| 49 | | | | | | | | | | | | 62 | | | | | | | | | 70 | | | B40, - *40:47, 40:188 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | 67 | | | | | 71 | | B60(40) *40:48 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B61(40), - *40:53, 40:72:02 |
| | | | | | | | | | | | | 61 | 62 | | 64 | | | | | | | 71 | | - *40:58 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | 72 | - *40:59 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:60 |
| | | | | | | | | | | | | 61 | | | | | | | | | | 71 | | - *40:68 |
| | | | | | | | | | | | | 61 | 62 | | | 65 | 67 | | | | | 71 | | - *40:71 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:74, 40:149 |
| 49 | | | | | | | | | | | | 62 | | | | | | | | | | | | - *40:76 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:83, 40:177 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | - *40:93 |
| | | | | | | | | | 59 | | | 61 | 62 | | | | | | | | | 71 | | - *40:95 |
| | | | | | | | | | | | | 62 | | | | | | | | | 70 | | | - *40:96 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | 72 | - *40:98 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:105 |
| | | | | | | | | | 58 | 60 | | 62 | | | | | | | | | 70 | | | - *40:109 |
| | | | | | | | | | | | | 62 | | | | | | | | | 70 | | | - *40:110 |
| 49 | | | | | | | | | 58 | 60 | | 62 | | | | | | | | | 70 | | | - *40:117 |
| 49 | | | | 53 | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:132, 40:178 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:135 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:136 |
| 49 | | | | | | | | | | | | 62 | | | | | | | | | | 71 | 72 | - *40:137 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:138 |
| | | | | | | | | | 59 | | | 61 | 62 | | | | | | | | | 71 | | - *40:148, 40:161 |
| | | | | | | | | | | | | 62 | | | | | | | | | 70 | | | - *40:157 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:158 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:159 |
| 49 | | | | | | | | | | | | 61 | | | | | | | | | | 71 | | - *40:166 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:170 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:174 |
| 49 | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:183 |
| | | | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - *40:184 |
| 49 | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | - *40:185 |
| | | 51 | | | 54 | | | | | | | 61 | 62 | | | | | | | | | 71 | | B41, - *41:01, 41:06-41:07, 41:12, 41:14, 41:16-41:17, 41:20 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. |

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|---|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *41:02:01-41:02:04, 41:11, 41:13, 41:19 | B41, - | | | | 28 | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *41:03:01-41:03:02, 41:15 | B41, - | | | | 28 | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *41:04, 41:10, 41:18 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | 48 |
| *41:05 | - | | | | 28 | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *41:08 | - | 25 | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | | | 48 |
| *41:09, 45:02-45:03 ¹⁰ | - | | | | 28 | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *42:01:01-42:02, 42:06, 42:10, 42:12, 42:15 | B42, - | | | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *42:04 | - | | | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *42:05:01-42:05:02 | - | 25 | | | | | | | 32 | | | | | | 38 | | | | | | | | | | | 48 |
| *42:08 | - | | | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *42:09 | - | | | | | | | | | | | | 36 | | | | | | | | | | | | | 48 |
| *42:11 | - | | | | | | | | 32 | | | 35 | | | | | | | | | | | | | | 48 |
| *42:13 | - | | | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *42:14 | - | | | | | | | | 32 | | | | | | | | | | | | | | | | | 48 |
| *42:16 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *44:02:01:01-44:02:21, 44:02:23-44:02:24, 44:11, 44:19N, 44:21-44:24, 44:27:01-44:27:02, 44:33-44:34, 44:48, 44:52N, 44:55, 44:59, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:84, 44:86-44:87, 44:89, 44:93, 44:101-44:102, 44:104, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126, 44:137, 44:142Q, 44:148-44:149N, 44:151-44:152 | B44(12), Null, - | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:02:22, 44:12 | B44(12), - | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:03:01-44:03:06, 44:03:08-44:05:03, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38-44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107-44:109, 44:114-44:115, 44:117, 44:120, 44:122-44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147 | B44(12), B21, Null, - | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:03:07, 44:07, 44:81, 44:103, 44:111, 44:134 | B44(12), - | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:06 | B44(12) | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:08 | B44(12) | | | | w | | | | | | | | | | | | | 41 | | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ |
| | | 51 | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | 72 | B41, - | *41:02:01-41:02:04, 41:11, 41:13, 41:19 |
| | | 51 | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | B41, - | *41:03:01-41:03:02, 41:15 |
| | | 51 | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | 72 | - | *41:04, 41:10, 41:18 |
| | | 51 | | 54 | | | | | | | | ? | 62 | | | | | | | | | 71 | | - | *41:05 |
| | | 51 | | | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - | *41:08 |
| | | | | 54 | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - | *41:09, 45:02-45:03 ¹⁰ |
| | | 51 | 52 | | | | | | | | | | | | | | | | | | | 71 | 72 | B42, - | *42:01:01-42:02, 42:06, 42:10, 42:12, 42:15 |
| | | 51 | 52 | | 54 | | | | | | | | | | | | | | | | | 71 | | - | *42:04 |
| | | 51 | 52 | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *42:05:01-42:05:02 |
| | | | 52 | | | | | | | | | | | | | | | | | | | 71 | | - | *42:08 |
| | | 51 | 52 | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *42:09 |
| | | 51 | | | | | | | | | | 62 | | | | | | | | | | 71 | 72 | - | *42:11 |
| | | 51 | 52 | 53 | | | | | | | | | | | | | | | | | | 71 | 72 | - | *42:13 |
| | | 51 | 52 | | | | | | | | | | | | | | | | | | | 71 | | - | *42:14 |
| | | 51 | 52 | | | | | | | | | | | | | | | | | | | 71 | 72 | - | *42:16 |
| | | | | 53 | | | | | | | | 62 | 63 | | | | | | | | | 70 | | B44(12), Null, - | *44:02:01:01-44:02:21, 44:02:23-44:02:24, 44:11, 44:19N, 44:21-44:24, 44:27:01-44:27:02, 44:33-44:34, 44:48, 44:52N, 44:55, 44:59, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:84, 44:86-44:87, 44:89, 44:93, 44:101-44:102, 44:104, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126, 44:137, 44:142Q, 44:148-44:149N, 44:151-44:152 |
| | | | | 53 | | | | | | | | 63 | | | | | | | | | | 70 | | B44(12), - | *44:02:22, 44:12 |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | B44(12), B21, Null, - | *44:03:01-44:03:06, 44:03:08-44:05:03, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38-44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107-44:109, 44:114-44:115, 44:117, 44:120, 44:122-44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147 |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | B44(12), - | *44:03:07, 44:07, 44:81, 44:103, 44:111, 44:134 |
| | | | | 53 | 54 | | | | | 60 | | 63 | | | | | | | 68 | | | 70 | | B44(12) | *44:06 |
| | | | | 53 | | | | | | | | 62 | 63 | | | | | | | | | 70 | | B44(12) | *44:08 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|---|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *44:03:01-44:03:06, 44:03:08-44:05:03, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38-44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107-44:109, 44:114-44:115, 44:117, 44:120, 44:122-44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147 | B44(12), B21, Null, - | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:03:07, 44:07, 44:81, 44:103, 44:111, 44:134 | B44(12), - | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:06 | B44(12) | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:08 | B44(12) | | | w | | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:09 | B45(12) | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:10 | B44(12) | | | | 28 | | | | | | | 35 | | | | | | 41 | | | | | | | | |
| *44:14 | B44(12) | | | | 28 | | | | 32 | | | | | | | | | 41 | | | | | | | | |
| *44:15 | B12 | | | | 28 | | | | 32 | | | 35 | | | | | | | | | | | | | | |
| *44:16, 44:91, 44:132 | B47, - | | | | 28 | | 30 | | | | | | | | | | | 41 | | | | | | | | |
| *44:17, 44:43:01-44:43:02, 44:144 | B44(12), - | | | | 28 | | | | | | | 36 | 37 | | | | | 41 | | | | | | | | |
| *44:18 | - | | | | 28 | | | | 32 | | | 35 | | | | | | | | | | | | | | |
| *44:20, 44:100 | - | | | | 28 | | | | 32 | | | | | | | | | | | | | | | | | |
| *44:25, 44:50 | - | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:31 | B44(12) | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *44:37:01-44:37:02, 44:64:01-44:64:02 | - | | | | 28 | | 30 | | | | | | | | | | | 41 | | | | | | | | |
| *44:40, 44:130 | B44(12), - | | | | | | | | | | | 35 | | | | | | 40 | 41 | | | | | | | |
| *44:41:01-44:41:02, 44:53, 44:99, 44:138Q | B44(12), - | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *44:44 | - | | | | | | | | | | | 35 | | | | | | 40 | 41 | | | | | | | |
| *44:46, 44:75, 44:129 | - | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:47, 44:65 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *44:49 | - | | | 26 | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:54 | B44(12) | | | | 27 | 28 | | | | | | | | | | | | | | | | | | | | |
| *44:57 | - | | | w | | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:60, 44:110 | - | | | | 27 | 28 | | | | | | | | | | | | 41 | | | | | | | | |
| *44:62 | - | | | | 28 | | | | 32 | 33 | | | | | | | | 41 | | | | | | | | |
| *44:83, 44:145 | - | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:90 | - | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:95 | - | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:97 | - | | | | 28 | | | | | | | | | | | | | 41 | | | | | | | | |
| *44:106 | - | | | | 27 | 28 | | | | | | | | | | | | | | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | ser. ⁵ | Well No. HLA-B allele ⁴ | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|--|---------|
| | | | | 53 | | | | | | | | 61 | 62 | 63 | | | | | | | | 71 | | B45(12) | *44:09 | |
| | | | | 53 | | | | | | | | 62 | | | | 65 | | | | | | 70 | | B44(12) | *44:10 | |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | B44(12) | *44:14 | |
| | | | | | 54 | | | | | | | 62 | | | | 65 | | | | | | 70 | | B12 | *44:15 | |
| | | | | 53 | | | | | | | | 62 | 63 | | | | | | | | | 70 | | B47, - | *44:16, 44:91, 44:132 | |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | B44(12), - | *44:17, 44:43:01-44:43:02, 44:144 | |
| | | | | | 54 | | | | 58 | | | 62 | | | | 65 | | | | | | 70 | | - | *44:18 | |
| | | | | 53 | 54 | | | | | | | 62 | 63 | | | | | | | | | 70 | | - | *44:20, 44:100 | |
| | | | | 53 | | | | | 58 | 60 | | 62 | | | | | | | | | | 70 | | - | *44:25, 44:50 | |
| 49 | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | B44(12) | *44:31 | |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | | - | *44:37:01-44:37:02, 44:64:01- 44:64:02 | |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | B44(12), - | *44:40, 44:130 | |
| | | | | 53 | | | | | | | | 62 | 63 | | | | | | | | | 70 | | B44(12), - | *44:41:01-44:41:02, 44:53, 44:99, 44:138Q | |
| | | | | 53 | | | | | | | | 62 | 63 | | | | | | | | | 70 | | - | *44:44 | |
| | | | | 53 | | | | | | | | 61 | 62 | | | | | | | | | 71 | | - | *44:46, 44:75, 44:129 | |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | - | *44:47, 44:65 | |
| | | | | 53 | | | | | | | | 62 | 63 | | | | | | | | | 70 | | - | *44:49 | |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | B44(12) | *44:54 | |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | - | *44:57 | |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | - | *44:60, 44:110 | |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 70 | | - | *44:62 | |
| | | | | 53 | | | | | | | | 62 | 63 | | | | | | | | | 70 | | - | *44:83, 44:145 | |
| | | | | 52 | 53 | | 56 | | | | | 61 | 62 | 63 | | | | | | | | 71 | | - | *44:90 | |
| | | | | 53 | | | | | 58 | 60 | | 62 | 63 | | | | | | | | | 70 | | - | *44:95 | |
| | | | | 52 | 53 | | 56 | | | | | 62 | 63 | | | | | | | | | 70 | | - | *44:97 | |
| | | | | 53 | | | | | | | | 62 | 63 | | | | | | | | | 70 | | - | *44:106 | |
| | | | | 53 | | | | | | | | 62 | 63 | | | | | | | | | | | - | *44:127 | |
| | | | | 53 | | | | | | | | 61 | 62 | 63 | | | | | | | | 71 | | - | *44:131 | |
| | | | | 53 | | | | | | | | 62 | | | | 65 | | | | | | 70 | | - | *44:140 | |
| | | | | 53 | | | | | | | | 62 | | | | | | | | | | 69 | 70 | | - | *44:146 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 70 | 72 | - | *44:150 | |
| | | | | | 54 | | | | | | | 61 | 62 | | | 65 | | | | | | 71 | | B45(12), - | *45:01, 45:05, 45:07, 45:11- 45:14 | |
| | | | | | 54 | | | | | | | 61 | 62 | | | 65 | | | | | | 71 | | - | *45:04 | |
| | | | | 52 | 54 | | | | | | | 61 | 62 | | | 65 | | | | | | 71 | | - | *45:06 | |
| | | | | | 54 | | | | | | | 61 | 62 | 64 | | | | | | | | 71 | | - | *45:08 | |
| | | | | | 54 | | | | | | | 61 | 62 | | | | | | | | | 71 | | - | *45:09 | |
| | | | | | 54 | | | | | | | 61 | 62 | | | | | | | | | 71 | | - | *45:10 | |
| | | | | 52 | | | 55 | | | | | | | | | | | | | | | 69 | 71 | B46, Null, - | *46:01:01-46:01:07, 46:04- 46:05, 46:07N, 46:09-46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:27-46:30 | |
| | | | | w | | | 55 | | | | | | | | | | | | | | | 69 | 71 | B46 | *46:02 | |

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|---|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *46:03, 46:08, 46:13:01- 46:13:03, 46:19, 46:21:01- 46:21:02, 46:25-46:26 | B46, - | | | | | | | 31 | | | | | 36 | | | | | | | | | | | | | |
| *46:06 | - | | | | | | | 31 | | | | | 36 | | | | | | | | | | | | | |
| *46:11 | - | | | | | | | 31 | | | | | | | | | | | | | | | | | | |
| *46:12 | - | | | 27 | | | | 31 | | | | | 36 | | | | | | | | | | | | | |
| *46:17 | - | | | | | | | 31 | | | | | 36 | 37 | | | | | | | | | | | | |
| *46:18 | - | | | | | | | 31 | | | | | | | | | | | | | | | | | | |
| *47:01:01:01-47:01:02, 47:06- 47:08 | B47, - | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *47:02 | B47 | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *47:03 | B47 | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *47:04-47:05 | - | | | | 28 | 29 | | | | | | | | | | | | | | | | | | | | |
| *48:01:01-48:01:03, 48:07, 48:09, 48:11, 48:19-48:20, 48:22, 48:27 | B48, - | | | | | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:02:01-48:02:02, 48:25 | B48, - | | | | | | | | | | | 35 | 36 | | | | | 41 | | | | | | | | 48 |
| *48:03:01-48:03:02 | B48 | | | | | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:04, 48:24 | B48, - | | | | | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:05, 48:08 | B48, - | 25 | | | | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:06 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *48:10, 48:12 | B48, - | | | | | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:13 | - | | | | | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:14 | - | | | | | | | | | | | 35 | 36 | | | | | | | | | | | | | 48 |
| *48:15 | - | 25 | | | | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:16 | - | | | | | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:17 | B48, 40 | | | | | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:18 | - | | | | | | | | | | | 35 | | | | | | | | | | | | | | |
| *48:21, 48:26 | - | | | | | 29 | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *48:23 | - | | | | | | | | | | | 35 | 36 | | | | | | | | | | | | | 48 |
| *49:01:01, 49:01:03, 49:06, 49:08-49:10, 49:12-49:17, 49:19N | B49(21), Null, - | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *49:01:02, 49:11 | B49(21), - | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *49:02 | B49(21) | | | | 28 | | | | | | | | | | | | | | | | | | | | | |
| *49:03 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *49:04-49:05 | B49(21), - | | | | 28 | | | | | | | | 36 | | | | | | | | | | | | | |
| *49:07 | - | | | | 28 | | | | | | | 34 | | | | | | | | | | | | | | |
| *49:18 | - | | | | 28 | | | | | | 33 | | | | | | | | | | | | | | | |
| *49:20 | - | | | | 28 | | | | | | | 35 | | | | | | | | | | | | | | |
| *50:01:01-50:01:03, 50:04- 50:05, 50:08, 50:10-50:11, 50:13, 50:16 | B50(21), - | | | | 28 | | | | | | | | | | | | | | | | | | | | | 48 |
| *50:02 | B45(12) | | | | 28 | | | | | | | 35 | | | | | | | | | | | | | | 48 |
| *50:06 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | 48 |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | 52 | | | 55 | | | | | | | | | | | | | | | | 71 | | B46, - | *46:03, 46:08, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25-46:26 |
| 49 | | | 52 | | | 55 | | | | | | | | | | | | | | | | 71 | | - | *46:06 |
| | | | 52 | | | 55 | | | | | | | | | | 65 | | | | | | 71 | | - | *46:11 |
| | | | 52 | | | 55 | | | | | | | | | | | | | | | 69 | 71 | | - | *46:12 |
| | | | 52 | | | 55 | | | | | | | | | | | | | | | 69 | 71 | | - | *46:17 |
| | | | 52 | | | 55 | | | | | | | | | 64 | | | | | | | 71 | | - | *46:18 |
| | 50 | | | | | | 56 | | | | | 62 | | | | | | | | | | 70 | | B47, - | *47:01:01:01-47:01:02, 47:06-47:08 |
| | 50 | | | | | | 56 | | | | 61 | 62 | | | | | | | | | | 71 | | B47 | *47:02 |
| | 50 | | | | | | 56 | | | | w | 62 | | | | | | | | | | 70 | w | B47 | *47:03 |
| | 50 | | | | | | | | | | | 62 | | | | | | | | | | 70 | | - | *47:04-47:05 |
| | | | | | | | | 57 | | | | 62 | | | | | | | | | | 71 | 72 | B48, - | *48:01:01-48:01:03, 48:07, 48:09, 48:11, 48:19-48:20, 48:22, 48:27 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | B48, - | *48:02:01-48:02:02, 48:25 |
| 49 | | | | | | | | | | | 62 | | | | | | | | | | | 71 | | B48 | *48:03:01-48:03:02 |
| | | | | | | | | 57 | | | | 62 | | | | | | | | | | 71 | | B48, - | *48:04, 48:24 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | 72 | B48, - | *48:05, 48:08 |
| | | | | | | | | 57 | | | | | | | | | | | | | | 71 | 72 | - | *48:06 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | 72 | B48, - | *48:10, 48:12 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | - | *48:13 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | 72 | - | *48:14 |
| | | | | | | | | 57 | | | | 62 | | | | | | | | | | 71 | 72 | - | *48:15 |
| | | | | | | | | 57 | | | | | | | | | | | | | | 71 | 72 | - | *48:16 |
| 49 | | | | | | | | | | | | 62 | | | | | | | | | | 71 | 72 | B48, 40 | *48:17 |
| | | | | | | | | 57 | | | | 62 | | | | | | | | | | 70 | 72 | - | *48:18 |
| | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | - | *48:21, 48:26 |
| 49 | | | | | | | | | | | | 62 | | | | | | | | | | 71 | | - | *48:23 |
| | | | | | | | | | | 58 | 59 | | 62 | | | 65 | | | | | | 70 | | B49(21), Null, - | *49:01:01, 49:01:03, 49:06, 49:08-49:10, 49:12-49:17, 49:19N |
| | | | | | | | | | | 58 | | | 62 | | | 65 | | | | | | 70 | | B49(21), - | *49:01:02, 49:11 |
| | | | | | | | | | | 59 | | | 62 | | | 65 | | | | | | 70 | | B49(21) | *49:02 |
| | | | | | | | | | | 59 | | | 62 | | | 65 | | | | | | 70 | | - | *49:03 |
| | | | | | | | | | | 58 | 59 | | 62 | | | | | | | | | 70 | | B49(21), - | *49:04-49:05 |
| | | | | | | | | | | 58 | 59 | | 62 | | | | | | | | | 70 | | - | *49:07 |
| | | | | | | | | | | 58 | 59 | | 62 | | | | | | | | | 70 | | - | *49:18 |
| | | | | | | | | | | 58 | 59 | | 62 | | | 65 | | | | | | 70 | | - | *49:20 |
| | | | | | | | | | | 59 | | 61 | 62 | | | 65 | | | | | | 71 | | B50(21), - | *50:01:01-50:01:03, 50:04-50:05, 50:08, 50:10-50:11, 50:13, 50:16 |
| | | | | | | | | | | 59 | | 61 | 62 | | | 65 | | | | | | 71 | | B45(12) | *50:02 |
| | | | | | | | | | | 59 | | 62 | | | 65 | | | | | | | 71 | | - | *50:06 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|--|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *50:07 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *50:09 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | 48 |
| *50:12 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | 48 |
| *50:14 | - | | | | 28 | | | | | 33 | | | | | | | | | | | | | | | | 48 |
| *50:15 | - | | | | 28 | | | | | | | | | | | | | | | | | | | | | 48 |
| *51:01:01, 51:01:03, 51:01:05- 51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26- 51:02:01, 51:02:03, 51:02:05- 51:03, 51:07:01, 51:09:01, 51:11N-51:12, 51:13:02-51:14, 51:16-51:19, 51:21-51:23, 51:26- 51:33, 51:38-51:41N, 51:43, 51:48-51:53, 51:55, 51:57-51:58, 51:60, 51:65-51:67, 51:69-51:77, 51:79-51:80, 51:82-51:88, 51:90- 51:91, 51:94-51:96, 51:98N, 51:100, 51:102, 51:105, 51:107- 51:111, 51:113-51:115, 51:117, 51:120-51:130 | B51(5), B5102, B5103, Null, - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *51:01:02, 51:02:02, 51:05, 51:07:02, 51:09:02, 51:89, 51:103, 51:116, 51:119 | B51(5), B5102, - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *51:01:04, 51:02:04, 51:13:01, 51:24:01, 51:34-51:35, 51:92, 51:99, 51:131 | B51(5), B5102, - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:01:09 | B51(5) | | | | | | | | | 33 | | | | | | | | | | | | | | | | 48 |
| *51:01:21, 51:01:25, 51:24:03- 51:24:04 | B51(5), - | | | | | | | | | 33 | | | | | | | | | | | | | | | | 48 |
| *51:04, 51:46, 51:56:01- 51:56:02 | B51(5), - | | | | | | | | | 33 | | | | | | | | 41 | | | | | | | | |
| *51:06:01-51:06:02, 51:59 | B51(5), - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *51:08, 51:20, 51:44N | B51(5), Null, - | | | | | | | | 32 | 33 | | | | | | | | | | | | | | | | |
| *51:10 | - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *51:15 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:24:02 | B51(5) | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *51:36 | - | | | | | | | | 32 | | | | | | | | | | | | | | | | | |
| *51:37, 51:63 | - | | | | | | | | | 33 | | | 36 | | | | | | | | | | | | | |
| *51:42 | B44(12) | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *51:45 | - | | | | | | | | | | | | 36 | | | | | | | | | | | | | |
| *51:54, 51:78:01-51:78:02 | - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *51:61 | - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *51:62 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:64 | - | | | | 27 | | | | | 33 | | | | | | | | | | | | | | | | |
| *51:68 | - | | | | 26 | | | | | 33 | | | | | | | | | | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | | | | | | | 59 | | 61 | 62 | | | 65 | | | | | | 71 | | - | *50:07 |
| | | | | | | | | | | 59 | | 61 | 62 | | | | | | | | | 71 | | - | *50:09 |
| | | | | | | | | | | | | 61 | 62 | | | 65 | | | | | | 71 | | - | *50:12 |
| | | | | | | | | | | 59 | | 61 | 62 | | | | | | | | | 71 | | - | *50:14 |
| | | | | | | | | | | 59 | | 61 | | | | 65 | | | | | | 71 | | - | *50:15 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | B51(5), B5102, B5103, Null, - | *51:01:01, 51:01:03, 51:01:05- 51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26- 51:02:01, 51:02:03, 51:02:05- 51:03, 51:07:01, 51:09:01, 51:11N-51:12, 51:13:02-51:14, 51:16-51:19, 51:21-51:23, 51:26 51:33, 51:38-51:41N, 51:43, 51:48-51:53, 51:55, 51:57-51:58, 51:60, 51:65-51:67, 51:69-51:77, 51:79-51:80, 51:82-51:88, 51:90 51:91, 51:94-51:96, 51:98N, 51:100, 51:102, 51:105, 51:107- 51:111, 51:113-51:115, 51:117, 51:120-51:130 |
| | | | | | | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | B51(5), B5102, - | *51:01:02, 51:02:02, 51:05, 51:07:02, 51:09:02, 51:89, 51:103, 51:116, 51:119 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | B51(5), B5102, - | *51:01:04, 51:02:04, 51:13:01, 51:24:01, 51:34-51:35, 51:92, 51:99, 51:131 |
| | | | | | | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | B51(5) | *51:01:09 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | B51(5), - | *51:01:21, 51:01:25, 51:24:03- 51:24:04 |
| | | | | | 54 | 55 | | | | | 60 | | | | | | | | 68 | | | 70 | | B51(5), - | *51:04, 51:46, 51:56:01- 51:56:02 |
| | | | | | 54 | | | | | | 60 | | | | | | | | 68 | | | 70 | | B51(5), - | *51:06:01-51:06:02, 51:59 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | B51(5), Null, - | *51:08, 51:20, 51:44N |
| | | | | | 54 | | | | | | 60 | | | | | | | | 68 | | | 70 | | - | *51:10 |
| | | | | | | | | | | | 60 | | | | | 65 | | | 68 | | | 70 | | - | *51:15 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | B51(5) | *51:24:02 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | - | *51:36 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | - | *51:37, 51:63 |
| | | | | | 53 | 54 | | | | | 60 | | | | | | | | 68 | | | 70 | | B44(12) | *51:42 |
| | | | | | 54 | | | | | | 60 | | | | | | | | 68 | | | 70 | | - | *51:45 |
| | | | | | | | | | | 59 | | | | | | | | | 68 | | | 70 | | - | *51:54, 51:78:01-51:78:02 |
| | | | | | 54 | | | | | w | 60 | | | | | | | | 68 | | 69 | 70 | | - | *51:61 |
| | | | | | 54 | | | | | | 60 | | | | | 65 | | 67 | 68 | | | 70 | | - | *51:62 |
| | | | | | 54 | | | | | | 60 | | | | | | | | 68 | | | 70 | | - | *51:64 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | - | *51:68 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|---|--------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:81 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:93 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:97 | - | | | | | | | | 32 | 33 | | | 36 | | | | | | | | | | | | | |
| *51:101 | - | | | | | | | | | 33 | | | | | | | | | | | | | 45 | | | |
| *51:104, 51:118N | Null, - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *51:106 | - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *51:112 | - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *52:01:01:01-52:01:01:02, 52:01:03, 52:01:06-52:01:08, 52:01:11, 52:04-52:05, 52:07- 52:08, 52:10:01-52:13, 52:15, 52:17-52:18, 52:22-52:24, 52:27- 52:29 | B52(5), - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *52:01:02, 52:01:04, 52:01:09, 52:02-52:03, 52:06:01-52:06:02, 52:09 | B52(5), - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *52:01:05, 52:14 | B52(5), - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *52:01:10 | - | | | | | | | | | 33 | | | | | | | | | | | | | | 46 | | |
| *52:16 | - | | | | | | | | | 33 | | 35 | | | | | | | | | | | | | | |
| *52:19 | - | | | | | | | | 32 | 33 | | | | | | | | | | | | | | | | |
| *52:20 | - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *52:21 | - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *52:25 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *52:26 | - | | | | | | 30 | | | 33 | | | | | | | | | | | | | | | | |
| *53:01:01-53:01:07, 53:05, 53:08:01-53:08:02, 53:10, 53:16, 53:18, 53:20-53:21, 53:23-53:27 | B53, - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *53:02 | - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *53:03, 53:09, 53:11-53:13 | B53, - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *53:04, 53:07, 53:19 | B53, - | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *53:06 | - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *53:14 | - | | | | 27 | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *53:15 | - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *53:17:01-53:17:02 | - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *53:22 | - | | | | | | | | | | | | 36 | 37 | | | | 41 | | | | | | | | |
| *54:01:01, 54:02, 54:05N, 54:07- 54:08N, 54:10, 54:13, 54:16- 54:19, 54:21-54:25 | B54(22), Null, - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:01:02, 55:01:07, 55:02:01- 55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41- 55:43, 55:47-55:48, 55:50 ¹¹ | B55(22), B54(22), B22, - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:03 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:04, 54:15 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:06 | - | | | | | | | | | | | | 36 | | | | | | | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|--------------------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | | |
| | | | | | 54 | | | | | | 60 | | | | | | | | 68 | | | 70 | | | - | *51:81 |
| | | | | | | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | | - | *51:93 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | | - | *51:97 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | 68 | | | 70 | | | - | *51:101 |
| | | | | | 54 | | | | | 59 | 60 | | | | | | | | | | | 70 | | | Null, - | *51:104, 51:118N |
| | | | | | 54 | | | | | 59 | 60 | | | | | 65 | | | 68 | | | 70 | | | - | *51:106 |
| | | | | | 54 | | | | 58 | 59 | 60 | | | | | | | | | | | 70 | | | - | *51:112 |
| | | | | | | | | | | 59 | 60 | | | 62 | | | | | | | | 70 | | | B52(5), - | *52:01:01:01-52:01:01:02, 52:01:03, 52:01:06-52:01:08, 52:01:11, 52:04-52:05, 52:07- 52:08, 52:10:01-52:13, 52:15, 52:17-52:18, 52:22-52:24, 52:27- 52:29 |
| | | | | | 54 | | | | | 59 | 60 | | | 62 | | | | | | | | 70 | | | B52(5), - | *52:01:02, 52:01:04, 52:01:09, 52:02-52:03, 52:06:01-52:06:02, 52:09 |
| | | | | | | | | | | 59 | 60 | | | 62 | | | | | | | | 70 | | | B52(5), - | *52:01:05, 52:14 |
| | | | | | | | | | | 59 | 60 | | | 62 | | | | | | | | 70 | | | - | *52:01:10 |
| | | | | | | | | | | 59 | 60 | | | 62 | | | | | | | | 70 | | | - | *52:16 |
| | | | | | 54 | | | | | 59 | 60 | | | 62 | | | | | | | | 70 | | | - | *52:19 |
| | | | | | | | | | | 59 | | | | 62 | | | | | | | | 70 | | | - | *52:20 |
| | | | | | 54 | | | | | 59 | 60 | | | 62 | | | | | | | | 69 | 70 | | - | *52:21 |
| | | | | | | | | | | 59 | 60 | | | 62 | | | 65 | | | | | 70 | | | - | *52:25 |
| | | | | | | | | | | 59 | 60 | | | 62 | | | | | | | | 70 | | | - | *52:26 |
| | | | | | | | | | | | 60 | | | | | | | | | 68 | | | 70 | | B53, - | *53:01:01-53:01:07, 53:05, 53:08:01-53:08:02, 53:10, 53:16, 53:18, 53:20-53:21, 53:23-53:27 |
| | | | | | 55 | | | | | | 60 | | | | | | | | | 68 | | | 70 | | - | *53:02 |
| | | | | | | | | | | | | | | | | | | | | 68 | | | 70 | | B53, - | *53:03, 53:09, 53:11-53:13 |
| | | | | | | | | | | | 60 | | | | | | | | | 68 | | | 70 | | B53, - | *53:04, 53:07, 53:19 |
| | | | | | 54 | 55 | | | | | 60 | | | | | | | | | 68 | | | 70 | | - | *53:06 |
| | | | | | | | | | | | 60 | | | | | | | | | 68 | | | 70 | | - | *53:14 |
| | | | | | | | | | | | 60 | | | | | | | | | 68 | | | 70 | 72 | - | *53:15 |
| | | | | | | | | | | | 60 | | | 62 | | | | | | | | 70 | | | - | *53:17:01-53:17:02 |
| | | | | | 53 | | | | | | 60 | | | | | | | | | 68 | | | 70 | | - | *53:22 |
| | | | | | 52 | | | | | | | | | 63 | 64 | | | | | | | | 71 | | B54(22), Null, - | *54:01:01, 54:02, 54:05N, 54:07- 54:08N, 54:10, 54:13, 54:16- 54:19, 54:21-54:25 |
| | | | | | 52 | | | | | | | | | | 64 | | | | | | | | 71 | | B55(22), B54(22), B22, - | *54:01:02, 55:01:07, 55:02:01- 55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41- 55:43, 55:47-55:48, 55:50 ¹¹ |
| | | | | | 52 | | | | | | | | | 63 | 65 | | | | | | | | 71 | | - | *54:03 |
| | | | | | 52 | | | | | | | | | 63 | | | | | | | | | 71 | | - | *54:04, 54:15 |
| | | | | | 52 | | | | | | | | | 63 | | | | | | | | 69 | 71 | | - | *54:06 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | | |

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Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|--|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:09, 54:14 | - | | | | | | | | | | | | 36 | | | | | | | | | | | | | |
| *54:11 | B54(22) | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *54:12 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:20 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:26 | - | | | | | | | | | | | 34 | | | | | | | | | | | | | | |
| *55:01:01-55:01:06, 55:01:08-55:01:09, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44-55:45, 55:52-55:55N | B55(22), B22, Null, - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:15, 56:19N, 56:22 ¹² | B55(22), B56(22), Null, - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:09, 55:24 | B22, - | | | | | | | | | | | 34 | | | | | | | | | | | | | | |
| *55:14 | - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *55:17, 55:28 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:18 | - | | | | | | | | | | | | 35 | | | | | | | | | | | | | |
| *55:20 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:21 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:22 | B55(22) | | | | | | | | | | | | 34 | | | | | | | | | | | | | |
| *55:23, 55:32, 56:18, 56:31-56:32 ¹³ | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:34 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:40 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:51 | - | | | | 27 | | | | | | | | | | | | | | | | | | | | | |
| *55:56 | - | | | | | | | | | | | | 32 | | | | | | | | | | | | | |
| *56:01:01-56:01:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:35 | B56(22), Null, - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:02, 56:04 | B56(22) | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:03 | B22 | | | | | | | | | | | | 36 | | | | | | | | | | | | | |
| *56:05:01 | B56(22) | | | | | | | | | | | | 33 | | | | | | | | | | | | | |
| *56:05:02 | B56(22) | | | | | | | | | | | | 33 | | | | | | | | | | | | | |
| *56:06 | B78 | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:07 | B56(22) | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:09 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:10 | B55(22) | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:11-56:12 | B56(22), B55(22) | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:13 | B56(22) | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:17, 56:33 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:20:02 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:21 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:23 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:25 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | ser. ⁵ | Well No. HLA-B allele ⁴ |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------------------|--|
| | | | 52 | | | | 56 | | | | | | | 63 | | | | | | | | 71 | | - | *54:09, 54:14 |
| | | | 52 | | | | 56 | | | | | | | 63 | | | | | | | | 71 | | B54(22) | *54:11 |
| | | | 52 | | | | 56 | | 58 | | | | | 63 | 64 | | | | | | | 70 | | - | *54:12 |
| | | | 52 | | | | 56 | | | 59 | | | | 63 | 64 | | | | | | | 71 | | - | *54:20 |
| | | | 52 | | | | 56 | | | | | | | 63 | | | | | | | | 71 | | - | *54:26 |
| | | | 52 | | | | 56 | | | 59 | | | | | 64 | | | | | | | 71 | | B55(22), B22, Null, - | *55:01:01-55:01:06, 55:01:08- 55:01:09, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44- 55:45, 55:52-55:55N |
| | | | 52 | | | | 56 | | | | | | | | | | | | | | | 71 | | B55(22), B56(22), Null, - | *55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:15, 56:19N, 56:22 ¹² |
| | | | 52 | | | | 56 | | | 59 | | | | | | | | | | | | 71 | | B22, - | *55:09, 55:24 |
| | | | 52 | | | | 56 | | | | | | | | | | 66 | | | | | 71 | | - | *55:14 |
| | | | 52 | | | | 56 | | | 59 | | | | | | | | | | | | 71 | | - | *55:17, 55:28 |
| | | | | | | | | | | | | | 62 | | 64 | | | | | | | 71 | | - | *55:18 |
| | | 51 | 52 | | 54 | | 56 | | | | | | | | | | | | | | | 71 | | - | *55:20 |
| | | | 52 | | | | 56 | | | w | | | | | 64 | | | | | | 69 | 71 | | - | *55:21 |
| | | | 52 | | | | 56 | | | | | | | | | | | | | | | 71 | | B55(22) | *55:22 |
| | | | 52 | | | | 56 | | | | | | | | | | | | | | | 71 | | - | *55:23, 55:32, 56:18, 56:31- 56:32 ¹³ |
| | | | 52 | | | | 56 | | | | | | 62 | | 64 | | | | | | | 71 | | - | *55:34 |
| | | | 52 | | | | 56 | | | 59 | | | 62 | | 64 | | | | | | | 71 | | - | *55:40 |
| | | | 52 | | | | 56 | | | | | | | | | | | | | | | 71 | | - | *55:51 |
| | | | 52 | | 54 | | 56 | | | | | | | | 64 | | | | | | | 71 | | - | *55:56 |
| | | | 52 | | | | 56 | | | | | | | | | 65 | | | | | | 71 | | B56(22), Null, - | *56:01:01-56:01:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:35 |
| | | | 52 | | | | 56 | | | | | | | | | 65 | | 67 | | | | 71 | | B56(22) | *56:02, 56:04 |
| | | | 52 | | | | 56 | | | | | | | | | | | | | | 69 | 71 | | B22 | *56:03 |
| | | | 52 | | | | 56 | | | 59 | | | | | 64 | | | | | | | 71 | | B56(22) | *56:05:01 |
| | | | 52 | | | | 56 | | | 59 | | | | | | | | | | | | 71 | | B56(22) | *56:05:02 |
| | | | 52 | | | | 56 | | | 59 | | | | | 64 | | | | w | | | 71 | | B78 | *56:06 |
| | | | 52 | | | | 56 | | | | | | | | 65 | | | | | | 70 | 71 | | B56(22) | *56:07 |
| | | | 52 | | | | 56 | | | | | | | | | | | | | | | 71 | | - | *56:09 |
| | | | 52 | | | | 56 | | | | | | | | 64 | | | | 67 | | | 71 | | B55(22) | *56:10 |
| | | | 52 | | | | 56 | | | | | | | | | | | | | | | 71 | | B56(22), B55(22) | *56:11-56:12 |
| | | | 52 | | 54 | | 56 | | | | | | | | | 65 | | | | | | 71 | | B56(22) | *56:13 |
| | | | | | | | | | | | | | | | | 65 | | | | | | 71 | | - | *56:17, 56:33 |
| | | | 52 | | | | 56 | | | | | | | | | 65 | | | | | | 71 | | - | *56:20:02 |
| | | | 52 | | | | 56 | | | 58 | 59 | | | | | | | | | | | 70 | | - | *56:21 |
| | | | | | | | | | | | | | | | 64 | | | | | | | 71 | | - | *56:23 |
| | | | 52 | | | | 56 | | | 59 | | | | | | 65 | | | | | | 71 | | - | *56:25 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | | Well No. |

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
|---|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *57:01:01-57:01:04, 57:01:06-57:01:13, 57:06, 57:08, 57:10, 57:15-57:16, 57:18-57:20, 57:22-57:23, 57:25-57:27, 57:29-57:30, 57:33-57:38, 57:40-57:41, 57:43-57:44, 57:48-57:50, 57:52-57:56, 58:36 ¹⁴ | B57(17), - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47 | B57(17), - | | | | | | | | | | | | 36 | | | | | | | | | | | | | |
| *57:02:01-57:03:02, 57:05, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46, 57:57 | B57(17), Null, - | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *57:04 | B57(17) | | | | | | 30 | | | | | | | | | | | 41 | | | | | | | | |
| *57:07 | - | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *57:09 | - | | | | | | | | 32 | | | | | | | | | 41 | | | | | | | | |
| *57:12 | - | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *57:14 | - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *57:24 | - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *57:45, 57:51 | - | | | | 28 | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *58:01:01-58:01:02, 58:01:04-58:01:11, 58:04-58:05, 58:10N-58:15, 58:19, 58:21-58:24, 58:29-58:33, 58:35 | B58(17), Null, - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *58:01:03, 58:02, 58:06, 58:16, 58:25-58:26 | B58(17), - | | | | | | | | | | | | 36 | | | | | | | | | | | | | |
| *58:07 | - | | | | | | | | | | | | 36 | 37 | | | | | | | | | | | | |
| *58:08:01 | B17 | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *58:08:02 | - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| *58:09 | - | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *58:17N | Null | | | | | | | | | | | | 36 | | | | | 41 | | | | | | | | |
| *58:18 | - | | | | 27 | | | | | | | | 36 | | | | | | | | | | | | | |
| *58:20 | - | | | | | | | | | | | | | | | | | | | | | | 45 | | | |
| *58:27 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *58:28, 58:34 | - | | | | | | | | | | | | | | | | | 41 | | | | | | | | |
| *59:01:01-59:01:01:02, 59:05 | B59, - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *59:02-59:03 | B59, - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *59:04 | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| *67:01:01, 67:03 | B67, - | | | | | 29 | | | | | | | | | | | | | | | | | 45 | | 48 | |
| *67:01:02-67:02 | B67, - | | | | | | | | | | | | | | | | | | | | | | 45 | | 48 | |
| *73:01-73:02 | B73, - | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *78:01:01-78:01:02, 78:02:02-78:03, 78:07 | B78, - | | | | | | | | | 33 | | | | | | | | 42 | | | | | | | | |
| *78:02:01, 78:04 | B78, - | | | | | | | | | 33 | | | | | | | | 42 | | | | | | | | |
| *78:05 | - | | | | | | | | | 33 | | | | | | | | 42 | | | | | | | | |
| *78:06 | - | | | | | | | | | 33 | | | | | | | | | | | | | | | | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |

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 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | | | | | | | | 60 | | | | | | 66 | | | | | 70 | | | B57(17), - *57:01:01-57:01:04, 57:01:06-57:01:13, 57:06, 57:08, 57:10, 57:15-57:16, 57:18-57:20, 57:22, 57:23, 57:25-57:27, 57:29-57:30, 57:33-57:38, 57:40-57:41, 57:43, 57:44, 57:48-57:50, 57:52-57:56, 58:36 ¹⁴ |
| | | | | | | | | | | | 60 | | | | | | 66 | | | | | 70 | | | B57(17), - *57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47 |
| | | | | | | | | | | | 60 | | | | | | 66 | | | | | 70 | | | B57(17), Null, - *57:02:01-57:03:02, 57:05, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46, 57:57 |
| | | | | | | | | | | | 60 | | | | | | 66 | | | | | 70 | | | B57(17) *57:04 |
| | | | | 53 | | | | | | | 60 | | | | | | 66 | | | | | 70 | | | - *57:07 |
| | | | | 53 | | | | | | | 60 | | | | | | 66 | | | | | 70 | | | - *57:09 |
| | | | | | | | | | | | | | | | | | 66 | | | | | 71 | | | - *57:12 |
| | | | | | | 55 | | | | | 60 | | | | | | 66 | | | | | 70 | | | - *57:14 |
| | | | | 53 | | | | | | | 60 | | | | | | 66 | | | | | 70 | | | - *57:24 |
| | | | | | | | | 58 | | | 60 | | | | | | | | | | | 70 | | | - *57:45, 57:51 |
| | | | | | | | | | | | 60 | | | | | | | 67 | | | | 70 | | | B58(17), Null, - *58:01:01-58:01:02, 58:01:04-58:01:11, 58:04-58:05, 58:10N-58:15, 58:19, 58:21-58:24, 58:29, 58:33, 58:35 |
| | | | | | | | | | | | 60 | | | | | | | 67 | | | | 70 | | | B58(17), - *58:01:03, 58:02, 58:06, 58:16, 58:25-58:26 |
| | | | | | | | | | | | 60 | | | | | | | 67 | | | | 70 | | | - *58:07 |
| | | | | 54 | | | | | | 59 | 60 | | | | | | | 67 | | | | 70 | | | B17 *58:08:01 |
| | | | | | | | | | | 59 | 60 | | | | | | | 67 | | | | 70 | | | - *58:08:02 |
| | | | | | | 55 | | | | | 60 | | | | | | | 67 | | | | 70 | | | - *58:09 |
| | | | | | | | | | | | | | | | | | | 67 | | | | 70 | | | Null *58:17N |
| | | | | | | | | | | | 60 | | | | | | | 67 | | | | 70 | | | - *58:18 |
| | | | | | | | | | | | 60 | | | | | | | 67 | | | | 70 | | | - *58:20 |
| | | | | | | | | | | | 60 | | | | | | | 67 | | | | 70 | | | - *58:27 |
| | | | | | | | | | | | 60 | | | | | | | 67 | | | | 70 | | | - *58:28, 58:34 |
| | | | | | | | | 58 | | | | | | | | 64 | | | | | | 70 | | | B59, - *59:01:01:01-59:01:01:02, 59:05 |
| | | | | | | | | 58 | | | | | | | | | | | | | | 70 | | | B59, - *59:02-59:03 |
| | | | | | | | | 58 | | | | | | | | | 65 | | | | | 70 | | | - *59:04 |
| | | | 52 | | | | | | | | | | | | | | | | | | | | 71 | | B67, - *67:01:01, 67:03 |
| | | | 52 | | | | | | | | | | | | | | | | | | | | 71 | | B67, - *67:01:02-67:02 |
| | | | 52 | | | | | | | | | | | | | | | | | | | 69 | 71 | | B73, - *73:01-73:02 |
| | | | | | | | | | | 59 | | | | | | 64 | | | | 68 | | | 71 | | B78, - *78:01:01-78:01:02, 78:02:02-78:03, 78:07 |
| | | | | | | | | | | 59 | | | | | | | | | | 68 | | | 71 | | B78, - *78:02:01, 78:04 |
| | | | | | | | | | | 59 | | 62 | | | | | | | | | | | 71 | | - *78:05 |
| | | | | | | | | | | 59 | | 62 | | | | | | | | | | | 71 | | - *78:06 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

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101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|---|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *81:01 | B81 | | | | | | | | | | | | | | | | | | | | | | | | |
| *81:02 | B81 | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| *81:03-81:05 | Null, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *82:01-82:03 | B82, - | | | | | | | | 32 | | | 35 | | | | | | | | 43 | | | | | |
| *83:01 | - | | | | | | | | | | | | | | | | | 41 | | | | | | | |
| A*23:31, A*24:106, C*07:231, C*16:10 | | | | | | | 30 | | | | | | | | | | | | | | | | | | |
| A*24:174 | | | | | | | | | | | | | | | 37 | | | | | | | | | | |
| A*26:68, A*68:56, C*02:56, C*06:20, C*12:50 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C*01:30 | | | | | 28 | | | | | | | | | | | | | | | | | | | | |
| C*02:06, C*02:47 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C*02:23, C*04:77 | | 25 | | | | | | | | | | | | | | | | | | | | | | | |
| C*03:05, C*03:25, C*03:27, C*03:143 | | | | | 27 | | | | | | | | | | | | | | | | | | | | |
| C*03:12, C*03:19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C*03:102 | | | | | | | | | | | | | | | | | | 41 | | | | | | | |
| C*03:129 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C*06:72 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C*07:02:30, C*08:16:02 | | | | | | | | | 31 | | | | | | | | | | | | | | | | |
| C*07:46 | | | | | | | | | 32 | | | | | | | | | | | | | | | | |
| C*15:02:04 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C*15:25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C*15:39 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C*15:51 | | | | | | | | | | | | | | | | | | | | | | | | 45 | |
| Well No. | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

¹The 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 25 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B low resolution typing.

In addition, wells number 28 to 30, 34, 41, 44, 45, 52, 54, 55, 59, 66 and 72 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The nucleotide position, in the 1st, 2nd or 3rd exon or in the 1st intron, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk, imgt, hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd, or 3rd exon or the 3rd 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ |
| | | | 52 | | | | 56 | 57 | | | | | | | | | | | | | | 71 | 72 | B81 | *81:01 |
| | | | 52 | | | | | 57 | | | | | | | | | | | | | | 71 | 72 | B81 | *81:02 |
| | | | 52 | | | | | 57 | | | | | | | | | | | | | | 71 | 72 | Null, - | *81:03-81:05 |
| | | | 52 | | | | 56 | | | | | | | | | 65 | | | | | | 71 | | B82, - | *82:01-82:03 |
| | | | 52 | 53 | | | 56 | | | | | | | 63 | | | | | | | | 71 | | - | *83:01 |
| | | | | | | | | | | | | | | | | | | | | | | | | | A*23:31, A*24:106, C*07:231, C*16:10 |
| | | | | | | | | | | | | | | | | | | | | | | | | | A*24:174 |
| | | | | | | | | | | | | | | | | | | | | 69 | | | | | A*26:68, A*68:56, C*02:56, C*06:20, C*12:50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | C*01:30 |
| | | | | | | | | | | | | | | | | | | w | | | | | | | C*02:06, C*02:47 |
| | | | | | | | | | | | | | | | | | | | | | | | | | C*02:23, C*04:77 |
| | | | | | | | | | | | | | | | | | | | | | | | | | C*03:05, C*03:25, C*03:27, C*03:143 |
| | | | | | | | | | | | | | | | | 65 | | | | | | | | | C*03:12, C*03:19 |
| | | | | | | | | | | | | | | | | 65 | | | | | | | | | C*03:102 |
| 49 | | | | | | | | | | | | | | | | | | | | | | | | | C*03:129 |
| | | | | | | | | | | | | | | | | | 66 | | | | | | | | C*06:72 |
| | | | | | | | | | | | | | | | | | | | | | | | | | C*07:02:30, C*08:16:02 |
| | | | | | | | | | | | | | | | | | | | | | | | | | C*07:46 |
| | | | | | | | | | | | | | | 64 | | | | | | | | | | | C*15:02:04 |
| | | | | 53 | | | | | | | | | | | | | | | | | | | | | C*15:25 |
| | | | | | | 55 | | | | | | | | | | | | | | | | | | | C*15:39 |
| | | | | | | | | | | | | | | | | | | | | | | | | | C*15:51 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | Well No. | |

⁴The sequence of the B*0701 allele has been shown to be in error.
 The sequence of the B*08:06 allele has been shown to be identical to B*08:20.
 The sequence of the B*1305 allele has been shown to be identical to B*13:04.
 The B*1324 allele has been renamed B*13:22:02
 The B*150105 allele has been corrected and renamed B*15:120
 The B*1522 allele has been renamed B*35:43.
 The sequence of the B*1541 allele has been shown to be identical to B*15:39.
 The B*1559 allele has been renamed B*35:44.
 The B*15:100 allele has never been assigned.
 The sequence of the B*1816 allele has been shown to be identical to B*18:14.
 The sequence of the B*27051 allele has been shown to be identical to B*27:05:02.
 The sequence of the B*2722 allele has been shown to be identical to the corrected B*27:06
 sequence.
 The B*3573 allele has been renamed B*35:08:03.
 The B*35:43:02 allele has been renamed B*35:185.
 The sequence of the B*39012 allele has been shown to be identical to B*39:01:01:01.
 The sequence of the B*3921 allele has been shown to be identical to B*39:24.
 The sequence of the B*4017 allele has been shown to be identical to B*40:16.
 The sequence of the B*4041 allele has been shown to be identical to B*40:40.
 The sequence of the B*4203 allele has never been assigned.
 The sequence of the B*4401 allele has been shown to be identical to B*44:02:01:01.
 The sequence of the B*5003 allele has been shown to be identical to B*50:02.

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Lot No.: 30R**Lot-specific information**

The sequence of the B*5125 allele has been shown to be identical to B*51:22.

The B*5147 allele has been renamed B*51:09:02.

The sequence of the B*5506 allele has been shown to be identical to B*55:04.

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

The B*7901 allele has been renamed B*15:18:01.

The B*9530 allele has been renamed B*15:27:02.

⁵The serological reactivity of all HLA-B alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁶The B*08:26, 08:50, 08:62 and 08:85 and B*42:07 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁷The B*13:21 and 13:35 and the B*44:135 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁸The B*14:08 and the B*39:25N, 39:30, 39:32-39:34, 39:47 and 39:50 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁹The B*18:29 and the B*35:32:01-35:32:02, 35:37, 35:53N, 35:64, 35:68:01-35:68:02, 35:99, 35:118-35:119 and 35:174 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁰The B*41:09 and the B*45:02 and 45:03 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹¹The B*54:01:02 and the B*55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48 and 55:50 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹²The B*55:04, 55:08, 55:13, 55:27, 55:46 and 55:49 and the B*56:15, 56:19N and 56:22 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹³The B*55:23 and 55:32 and the B*56:18 and 56:31-56:32 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁴The B*57:01:01-57:01:04, 57:01:06-57:01:13, 57:06, 57:08, 57:10, 57:15-57:16, 57:18-57:20, 57:22-57:23, 57:25-57:27, 57:29-57:30, 57:33-57:38, 57:40-57:41, 57:43-57:44, 57:48-57:50 and 57:52-57:56 and the B*58:36 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁵Primer mix 28 amplifies the B*15:143, 35:19, 40:170, 44:07 and 50:07 alleles, and primer mix 50 amplifies the B*37:06:01 allele in addition to the alleles specified in the tables.

‘ser’, serological HLA specificity.

‘w’, might be weakly amplified.

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

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 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|--|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| DRB1 allele ⁴ | ser ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *01:01:01-01:02:08, 01:04-01:38, 01:40N-01:41, 01:43-01:45 | DR1, Null, - | 73 | | | | | | | | | | | | | | | | | | | | | | | |
| *01:03, 01:39N | DR103, Null | | 74 | | | | | | | | | | | | | | | | | | | | | | |
| *01:42 | - | 73 | 74 | | | | | | | | | | | | | | | | | | | | | | |
| *03:01:01-01:03:01:19, 03:04:01-03:06, 03:09, 03:11:01-03:16, 03:18-03:20, 03:22-03:23, 03:25-03:26, 03:28, 03:30-03:31, 03:33-03:34, 03:36-03:37, 03:43-03:45, 03:47-03:48, 03:50-03:52, 03:54-03:63, 03:66-03:68N, 03:70-03:73, 03:75, 03:77-03:81 | DR17(3), DR3, Null, - | | | | | 77 | 78 | | | | | | | | | | | 89 | | | | | | | |
| *03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74 | DR18(3), - | | | | | 77 | | 79 | | | | | | | | | | 89 | | | | | | | |
| *03:07, 03:17, 03:21, 03:24, 03:32, 03:35, 03:39-03:41, 03:49 | DR3, - | | | | | 77 | | | | | | | | | | | | 89 | | | | | | | |
| *03:08, 03:65 | - | | | | | 77 | 78 | | | | | 83 | | 85 | | | | | | | | | | | |
| *03:10 | DR17(3) | | | | | 77 | 78 | | | | | | | | | | | | 91 | 92 | | | | | |
| *03:42, 03:69 | - | | | | | 77 | | | | | | | | | | | | | | | | | | | |
| *03:46, 03:64 | - | | | | | 77 | 78 | | | | | | | | | | | | | | | | | | |
| *03:76 | - | | | | | | 78 | | | | | | 84 | | | 87 | | 89 | | | | | | | |
| *04:01:01-04:61, 04:63-04:68, 04:70-04:72:02, 04:74-04:104, 04:106-04:107 | DR4, Null, - | | | | | | | | 80 | | | | | | | | | | | | | | | | |
| *04:62, 04:69, 04:73, 04:105 | - | | | | | | | | 80 | | | | | | | | | | 90 | | | | | | |
| *07:01:01-07:01:04, 07:03-07:22 | DR7, Null, - | | | | | | | | | 81 | | | | | | | | | | | | | | | |
| *08:01:01-08:02:04, 08:04:01-08:07, 08:11, 08:16-08:17, 08:22, 08:24, 08:26, 08:28, 08:39, 08:42-08:44 | DR8, - | | | | | | | | | | 82 | | | | | | 88 | | | | | | | | |
| *08:03:02-08:03:03, 08:10, 08:12-08:15, 08:18-08:19, 08:23, 08:25, 08:27, 08:29-08:30:03, 08:33-08:34, 08:36:01-08:38, 08:45-08:49 | DR8, - | | | | | | | | | | 82 | | | | | | | | | | | | | | |
| *08:08 | - | | | | | | | | | | 82 | | | | | | 88 | | 90 | | | | | | |
| *08:09, 14:15 ⁷ | DR8 | | | | | | | | | | 82 | | | | | | 88 | | | | 92 | | | | |
| *08:20, 13:18, 13:47, 13:55 ⁸ | DR13(6), - | | | | | | | | | | | | | | | 87 | 88 | 89 | | 92 | | | | | |
| *08:21 | - | | | | | | | | | | 82 | | | | | 87 | 88 | | | 92 | | | | | |
| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

Negative Control

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|--|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DRB1 allele⁴ | ser⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *08:31, 08:41, 11:67 ⁹ | DR11(5), - | | | | | | | | | | 82 | | | 85 | | 88 | | | | | | | | | |
| *08:32 | - | | | | | | | | | | 82 | | | | 86 | | | | | 92 | | | | | |
| *08:35 | - | | | | | | | | | | 82 | | | | | | | | | 92 | | | | | |
| *08:40 | - | | | | | | 78 | | | | 82 | | | | | | | | | | | | | | |
| *09:01:02-09:01:05, 09:01:07-09:02:02, 09:04-09:17 | DR9, - | | | | | | | | | | | 83 | | | | | | | 91 | | | | | | |
| *09:01:06, 09:03 | DR9, - | | | | | | | | | | | 83 | | | | | | | | | | | | | |
| *10:01:01-10:04 | DR10, - | | | | | | | | | | | | 84 | | | | | | | | | | | | |
| *11:01:01-11:01:16, 11:04:01-11:04:08, 11:06:01-11:06:02, 11:09-11:10:02, 11:12:01-11:12:02, 11:15, 11:24, 11:27:01-11:30, 11:32-11:33, 11:35, 11:37:01-11:39, 11:43-11:44, 11:46:01-11:47, 11:49:01-11:51, 11:54:01-11:54:02, 11:56, 11:58:01-11:58:02, 11:60-11:62, 11:66, 11:72, 11:74:01-11:75, 11:77-11:78, 11:81, 11:84:01-11:84:02, 11:88, 11:90-11:92, 11:94-11:95, 11:97, 11:99-11:102:02, 11:106, 11:108-11:117, 11:120-11:121, 11:123, 11:126 | DR11(5), - | | | | | | | | | | | | | 85 | | 87 | 88 | | | | | | | | |
| *11:02:01-11:03, 11:11:01-11:11:02, 11:14:01-11:14:02, 11:16, 11:20-11:21, 11:36, 11:40-11:41, 11:48, 11:63, 11:65:01-11:65:02, 11:68, 11:70, 11:76, 11:85-11:86, 11:93, 11:118, 11:122, 11:124 | DR11(5), DR13 (6), - | | | | | | 78 | | | | | | | 85 | | 87 | 88 | | | | | | | | |
| *11:05 | DR11(5) | | | | | | | | | | | | | 85 | | 88 | | | | | | | | | |
| *11:07, 11:53, 11:103, 11:105, 11:107, 11:125 | DR11(5), - | | | | | 77 | | | | | | 83 | | 85 | | | | | | | | | | | |
| *11:08:01-11:08:02, 11:18-11:19:03, 11:42, 11:57 | DR11(5), - | | | | | | | | | | | | | 85 | | 87 | | | | | | | | | |
| *11:13:01-11:13:02 | DR11(5) | | | | | | | w | | | | | | 85 | | | | | | 91 | 92 | | | | |
| *11:17, 11:52 | DR11(5), - | | | | | | | | | | | | | 85 | | | | | | 91 | 92 | | | | |
| *11:22, 11:98, 11:104 | - | | | | | | | | | | | | | 85 | | | | | | | | | | | |
| *11:23, 11:25, 11:96 | DR11(5), - | | | | | | | | | | | | | 85 | | 87 | 88 | | | 92 | | | | | |
| *11:26, 11:34 | DR11(5), - | | | | | | 79 | | | | | | | 85 | | | | | | | | | | | |
| *11:31, 11:45, 11:64, 11:119 | - | | | | | | | | | | | | | 85 | | 87 | | | | 92 | | | | | |
| *11:55 | - | | | | | | | | | | | | | 85 | | 88 | | | | 92 | | | | | |
| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

Negative Control

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|---|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DRB1 allele⁴ | ser⁹ | | | | | | | | | | | | | | | | | | | | | | | | |
| *11:59, 11:80, 11:83, 11:87 | - | | | | | | 78 | | | | | | 84 | 85 | | 87 | 88 | | | | | | | | |
| *11:69, 11:82 | - | | | | | | | | | | | | | 85 | | | 88 | | 90 | | | | | | |
| *11:73, 11:79 | - | | | | | | 78 | | | | | | | 85 | | 87 | | | | | | | | | |
| *11:89 | - | | | | | | | | | | | | | 85 | | | | | | 92 | | | | | |
| *12:01:01-12:01:04, 12:03, 12:05-12:12, 12:14, 12:17, 12:24N-12:25, 12:28-12:30, 12:34-12:35 | DR12(5), Null, - | | | | | | | | | | | | | | 86 | | | | | | | | | | |
| *12:02:01-12:02:05, 12:13, 12:15, 12:18-12:21, 12:23, 12:26-12:27, 12:31N-12:33 | DR12(5), Null, - | | | | | | | | | | | | | | 86 | | 88 | | | | | | | | |
| *12:04 | - | | | | | | | | | | | 82 | | | 86 | | | | | | | | | | |
| *12:16:01 | - | | | | | | | | | | | 82 | | | 86 | | 88 | | | | | | | | |
| *12:22 | - | | | | | | | | | | 81 | 82 | | | 86 | | | | | | | | | | |
| *13:01:01-13:02:01, 13:02:03-13:02:05, 13:04, 13:08, 13:16, 13:20, 13:22-13:24, 13:28-13:29, 13:31-13:32, 13:34-13:36, 13:38-13:40, 13:48, 13:51-13:52, 13:54, 13:59, 13:61:01-13:61:02, 13:63-13:65, 13:68-13:70, 13:72-13:76, 13:78-13:80, 13:83-13:84, 13:87, 13:91-13:93, 13:96:01-13:99, 13:102, 13:105-13:107, 13:109, 13:111-13:114, 13:117, 13:121, 13:123-13:128, 13:130-13:131, 13:135, 13:138-13:139 | DR13(6), DR14(6), Null, - | | | | | | 78 | | | | | | | | | | 87 | 88 | 89 | | | | | | |
| *13:02:02 | DR13(6) | | | | | | 78 | | | | | | | | | | | 89 | | | | | | | |
| *13:03:01-13:03:06, 13:10, 13:33:01-13:33:03, 13:37, 13:66:01-13:66:02, 13:81, 13:88-13:90, 13:94-13:95, 13:101, 13:115, 13:120, 13:133, 13:137N | DR13(6), Null, - | | | | | | 78 | | | | | | | | | 87 | | 89 | | | | | | | |
| *13:05:01-13:05:02, 13:07:01-13:07:02, 13:11:01-13:11:02, 13:14:01-13:14:03, 13:21:01-13:21:02, 13:42, 13:46, 13:49-13:50:02, 13:62, 13:100, 13:108, 13:132, 13:136 | DR13(6), - | | | | | | | | | | | | | | | 87 | 88 | 89 | | | | | | | |
| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

Negative Control

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|--|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DRB1 allele⁴ | ser⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *13:06, 13:12:01-13:12:02, 13:25, 13:30, 13:56, 13:58, 13:60, 13:77, 13:82, 13:110, 13:118, 13:134 | DR13(6), | | | | | | | | | | | | | | | 87 | | 89 | | | | | | | |
| *13:09 | - | | | | | | | | | | | | | | | | 88 | 89 | | | | | | | |
| *13:13, 13:119, 14:84, 14:116 ¹⁰ | DR13(6), | | | | | | | | | | | | | | | 87 | | 89 | | 92 | | | | | |
| *13:15, 13:19, 13:53, 13:57, 13:104 | DR13(6), | | | | | | 78 | 79 | | | | | | | | 87 | 88 | 89 | | | | | | | |
| *13:17, 13:116 | DR13(6), | | | | | | 78 | | | 81 | | | | | | | 88 | | | | | | | | |
| *13:26 | - | | | | | | | 79 | | | | | | | | 87 | 88 | 89 | | | | | | | |
| *13:27, 13:41, 13:71 | DR13(6), | | | | | | 78 | | | | | 84 | | | | 87 | 88 | 89 | | | | | | | |
| *13:43 | - | | | | | | 78 | | | | | | | | | 87 | 88 | | 91 | 92 | | | | | |
| *13:44, 13:86 | - | | | | | | | 79 | | | | | | | | | | 89 | | | | | | | |
| *13:45 | - | | | | | | 78 | | | | | | | | | 87 | 88 | 90 | 92 | | | | | | |
| *13:67, 13:103 | - | | | | | | | | | | | | | | | 87 | 88 | | | | | | | | |
| *13:85 | - | | | | | | 78 | 79 | | | | | | | | 87 | | 89 | | | | | | | |
| *13:122 | - | | | | | | 78 | | | | | | | | | 87 | | | | | | | | | |
| *13:129 | - | | | | | | 78 | | | | | 84 | | | | | 88 | 89 | | | | | | | |
| *14:01:01-14:01:02, 14:04, 14:07:01-14:07:02, 14:10, 14:26, 14:28, 14:31, 14:35, 14:38-14:39, 14:54:01, 14:55, 14:57, 14:60-14:62, 14:70- 14:71, 14:75-14:76, 14:79, 14:86-14:88, 14:90, 14:99, 14:101, 14:104, 14:107, 14:110-14:114, 14:117- 14:118, 14:120, 14:122, 14:124-14:125 | DR14(6), DR1404, | | | | | | | | | | | | | | | | | | 90 | 91 | 92 | | | | |
| *14:01:03, 14:08, 14:23:02, 14:34, 14:54:02, 14:72, 14:92N, 14:97 | DR14(6), Null, - | | | | | | | | | | | | | | | | | | | 91 | 92 | | | | |
| *14:02, 14:06:01-14:06:02, 14:09, 14:13, 14:17, 14:20, 14:29-14:30, 14:33, 14:41, 14:47-14:48, 14:51, 14:80, 14:83, 14:94, 14:106, 14:108, 14:121 | DR14(6), DR6-, | | | | | | | 79 | | | | | | | | | | 89 | | 91 | | | | | |
| *14:03:01-14:03:02, 14:12:01- 14:12:02, 14:40, 14:63, 14:67, 14:77-14:78, 14:85, 14:102, 14:115 | DR14(6), DR1403, | | | | | | | 79 | | | | | | | | 87 | | 89 | | 92 | | | | | |
| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

Negative Control

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **30R**

Lot-specific information

| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|--|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DRB1 allele⁴ | ser⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *14:05:01-14:05:03, 14:14, 14:23:01, 14:23:03, 14:36, 14:43-14:45, 14:56, 14:59, 14:64, 14:91, 14:96, 14:100, 14:103, 14:123 | DR14(6), - | | | | | | | | | | | | | | | | | 89 | | 91 | 92 | | | | |
| *14:11 | DR14(6) | | | | | | | | | | 82 | | | | | | | | | 91 | 92 | | | | |
| *14:16 | DR6 | | | | | | 78 | | | | | | | | | 87 | 88 | | 90 | 91 | 92 | | | | |
| *14:18, 14:81 | DR6, - | | | | | | | 79 | | | | | | | | | | 89 | | 91 | 92 | | | | |
| *14:19, 14:21, 14:109 | DR14(6), - | | | | | | 78 | 79 | | | | | | | | 87 | | 89 | | w | | | | | |
| *14:22, 14:105 | DR14(6), - | | | | | | | | | | | | | | | 87 | 88 | | 90 | 91 | 92 | | | | |
| *14:24 | - | | | | | | | 79 | | | | | | | | | 88 | 89 | | | | | | | |
| *14:25, 14:53 | DR13(6), - | | | | | | | | | | | | | | | 87 | 88 | | 90 | | 92 | | | | |
| *14:27 | DR14(6) | | | | | | | 79 | | | | | | | | 87 | 88 | 89 | | | 92 | | | | |
| *14:32:01-14:32:02 | - | | | | | | | w | | | | | | | | | | | 90 | 91 | 92 | | | | |
| *14:37 | - | | | | | | | | | | | | | | | | 88 | 89 | 90 | | | | | | |
| *14:42 | - | | | | | | | | | | | | | | | | | 89 | | | 92 | | | | |
| *14:46, 14:52 | - | | | | | | | | | | | | | | | | | | | 91 | | | | | |
| *14:49, 14:119 | DR14(6), - | | | | | | | 79 | | | | | | | | | | | 90 | 91 | 92 | | | | |
| *14:50 | DR14(6) | | | | | | | | | 81 | | | | | | | | | 90 | 91 | 92 | | | | |
| *14:58 | - | | | | | | | | | | | | | | | | | | 90 | | 92 | | | | |
| *14:65 | - | | | | | | | w | | | | | | | | | | 89 | | 91 | 92 | | | | |
| *14:68, 14:93 | - | | | | | | | | | | 82 | | | | | | | | 90 | 91 | 92 | | | | |
| *14:69 | - | | | | | | | | | | | | | | | 87 | | | 90 | | 92 | | | | |
| *14:73 | - | | | | | | | | | | | | | | | | 88 | | 90 | 91 | 92 | | | | |
| *14:74 | - | | | | | | | | | | | | | | | | 87 | | 90 | 91 | 92 | | | | |
| *14:82 | - | | | | | | | 78 | | | | | | | | | | | 90 | 91 | 92 | | | | |
| *14:89 | - | | | | | | | | 79 | | | | | | | | | 89 | | | 92 | | | | |
| *14:95 | - | | | | | | | 78 | | | | | | | | | | 89 | | 91 | 92 | | | | |
| *14:98 | - | | | | | | | | 79 | | | | | | | | 87 | 89 | | | | | | | |
| *15:01:01:01-15:20, 15:22-15:24, 15:26, 15:28-15:33, 15:35-15:65, 15:67-15:71 | DR15(2), DR2, Null, - | | | 75 | | | | | | | | | | | | | | | | | | | | | |
| *15:21 | - | | | 75 | | | | | | | | | | | | | | | | | w | | | | |
| *15:25 | - | | | 75 | | 77 | | | | | | | | | | | | | | | | | | | |
| *15:27, 15:34, 15:66 | - | | | 75 | | | | | | | | | | | | | | | | 91 | | | | | |
| *16:01:01-16:03, 16:05:01-16:05:02, 16:07-16:17, 16:19 | DR16(2), DR2, Null, - | | | | 76 | | | | | | | | | | | | | | | | | | | | |
| *16:04, 16:18 | DR16(2), - | | | | 76 | | | | | | | | | | | | | | | | w | | | | |
| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

Negative Control

101.701.24/06– including *Taq* pol., IFU-01
101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| Well No. | DR | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|--|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| DRB1 allele ⁴ | ser ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>DRB3*01:01:02:01-01:15</i> , <i>DRB3*02:01-02:26</i> , <i>DRB3*02:28-02:29N</i> , <i>DRB3*03:01:01-03:03</i> | DR52, Null, - | | | | | | | | | | | | | | | | | | | | | 93 | | | |
| <i>DRB3*02:27</i> | - | | | | | | | | | | | | | | | 87 | | | | | | 93 | | | |
| <i>DRB4*01:01-01:03:01:01</i> , <i>DRB4*01:03:01:03-01:08</i> | DR53, - | | | | | | | | | | | | | | | | | | | | | | 94 | | |
| <i>DRB4*01:03:01:02N</i> | Null | | | | | | | | | | | | | | | | | | 90 | | | | 94 | | |
| <i>DRB5*01:01:01-01:14</i> , <i>DRB5*02:02-02:05</i> | DR51, Null, - | | | | | | | | | | | | | | | | | | | | | | | 95 | |
| Well No. | | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

Negative Control

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

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

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

²The codon, and in parenthesis the nucleotide, in the 2nd exon or 1st intron, matching the specificity-determining 3'-end of the primer is given. Codon and nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The codon, and in parenthesis the nucleotide, in the 2nd exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Codon and nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴The DRB1*03:11:02 allele has been renamed DRB1*03:81.

The sequence of the DRB1*0702 allele has been shown to be identical to DRB1*07:01:01:01.

The sequence of the DRB1*080301 allele has been shown to be identical to DRB1*08:03:02.

The sequence of the DRB1*09011 allele has been shown to be identical to DRB1*09:01:02.

The sequence of the DRB1*1171 allele has been shown to be identical to DRB1*11:02:01.

The sequence of the DRB1*12031 allele has been shown to be identical to DRB1*12:01:01.

The DRB1*1466 allele has been renamed DRB1*14:32:02.

The sequence of the DRB1*1606 allele has been shown to be identical to DRB1*16:05:01.

The sequence of the DRB3*010101 allele has been shown to be identical to DRB3*01:01:02:01.

The DRB4*0101102N allele has been renamed DRB4*01:03:10:02N.

The sequence of the DRB5*0201 allele has been shown to be identical to DRB5*02:02.

Due to sharing of sequence motifs in codon 38, DRB3*01:14 will also be amplified in primer mixes 77, 78 and 89 in addition to primer mix 93.

The DRB4*02:01N and DRB4*03:01N null alleles will not be amplified by the DR low resolution primer set.

⁵The serological reactivity of all DRB alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁶Primer mix 96 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

⁷The DRB1*08:09 and the DRB1*14:15 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁸The DRB1*08:20 and the DRB1*13:18, 13:47 and 13:55 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁹The DRB1*08:31, 08:41 and DRB1*11:67 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁰The DRB1*13:13 and 13:119 and DRB1*14:84 and 14:116 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

'ser', serological HLA specificity. 'w', may be weakly amplified.

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|-----------------|--------|--------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A low resolution primer set | | | | | | | | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | | | | | | | | |
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | | | Lot No.: | 201207101 | 201201902 | 201207103 | 201201904 | 201201905 | 201201906 | 201201907 | 201201908 | 201201909 | 201204110 | 201201911 | 201201912 | 201201913 | 201204114 | 201201915 | 201201916 |
| | IHWC cell line | A* | A* | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *24:02 | | - | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | *02:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | 9011 E4181324 | *01:01 | | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *30:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 5 | 9009 KAS011 | *01:01 | | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | 9353 SM | *02:01 | *26:03 | - | + | - | - | - | - | - | - | + | - | - | + | - | + | - | - | - |
| 7 | 9020 QBL | *26:01 | | - | - | - | - | - | - | - | - | + | - | + | - | - | + | - | - | - |
| 8 | 9025 DEU | *31:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 9 | 9026 YAR | *26:01 | | - | - | - | - | - | - | - | - | + | - | + | - | - | + | - | - | - |
| 10 | 9107 LKT3 | *24:02 | | - | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - |
| 11 | 9051 PITOUT | *29:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 12 | 9052 DBB | *02:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 9004 JESTHOM | *02:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | 9071 OLGA | *31:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 15 | 9075 DKB | *24:02 | | - | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | *29:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 17 | 9282 CTM3953540 | *03:01 | *80:01 | - | - | + | - | - | + | - | - | - | - | - | - | - | + | - | - | - |
| 18 | 9257 32367 | *33:03 | *74:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 9038 BM16 | *02:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 9059 SLE005 | *02:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | 9064 AMALA | *02:17 | | - | + | - | - | - | - | - | W | - | - | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | *02:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9124 IHL | *02:01 | *34:01 | - | + | - | - | - | - | - | + | - | - | - | + | + | - | - | - | - |
| 24 | 9035 JBUSH | *32:01 | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 25 | 9049 IBW9 | *33:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *02:05 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | 9191 CH1007 | *24:10 | *29:01 | - | - | - | - | + | - | + | - | - | - | - | - | - | - | + | - | - |
| 28 | 9320 BEL5GB | *02:01 | *29:02 | - | + | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 29 | 9050 MOU | *29:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 30 | 9021 RSH | *30:01 | *68:02 | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | + | - |
| 31 | 9019 DUCAF | *30:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 32 | 9297 HAG | *02:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 33 | 9098 MT14B | *31:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 34 | 9104 DHIF | *31:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 35 | 9302 SSTO | *32:01 | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | *02:06 | *11:01 | - | + | - | + | - | - | - | - | - | - | - | + | - | - | - | - | - |
| 37 | 9065 HHKB | *03:01 | | - | - | + | - | - | - | - | - | - | - | - | - | + | - | - | - | - |
| 38 | 9099 LZL | *02:17 | | - | + | - | - | - | - | - | W | - | - | - | - | - | - | - | - | - |
| 39 | 9315 CML | *01:01 | *03:01 | + | - | + | + | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 40 | 9134 WHONP199 | *02:07 | *30:01 | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 41 | 9055 H0301 | *03:01 | | - | - | + | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 42 | 9066 TAB089 | *02:07 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | 9076 T7526 | *02:06 | *02:07 | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 44 | 9057 TEM | *66:01 | | - | - | - | - | - | - | - | - | + | - | - | + | - | + | - | - | - |
| 45 | 9239 SHJO | *23:01 | *24:02 | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - | - | - |
| 46 | 9013 SCHU | *03:01 | | - | - | + | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 47 | 9045 TUBO | *02:16 | *03:01 | - | + | + | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 48 | 9303 TER-ND | *02:01 | *11:01 | - | + | - | + | - | - | - | - | - | - | - | + | - | - | - | - | - |

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | |
|--|-----------------------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A low resolution primer set | | | | | | | | | | | | |
| | | | | Well | | | | | | | | |
| | | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| | | | | Lot No.: | 201201917 | 201201918 | 201201919 | 201201920 | 201201921 | 201201922 | 201201923 | 201193124 |
| | IHWC cell line | A* | A* | | | | | | | | | |
| 1 | 9001 SA | *24:02 | | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | *02:01 | | - | - | - | - | - | - | - | - | - |
| 3 | 9011 E4181324 | *01:01 | | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *30:01 | | - | - | - | - | - | - | - | - | - |
| 5 | 9009 KAS011 | *01:01 | | - | - | - | - | - | - | - | - | - |
| 6 | 9353 SM | *02:01 | *26:03 | - | - | - | - | - | - | - | + | - |
| 7 | 9020 QBL | *26:01 | | - | - | - | - | - | - | - | - | - |
| 8 | 9025 DEU | *31:01 | | - | - | - | - | - | - | - | - | - |
| 9 | 9026 YAR | *26:01 | | - | - | - | - | - | - | - | - | - |
| 10 | 9107 LKT3 | *24:02 | | - | - | - | - | - | - | - | - | - |
| 11 | 9051 PITOUT | *29:02 | | - | - | - | - | - | - | - | - | - |
| 12 | 9052 DBB | *02:01 | | - | - | - | - | - | - | - | - | - |
| 13 | 9004 JESTHOM | *02:01 | | - | - | - | - | - | - | - | - | - |
| 14 | 9071 OLGA | *31:01 | | - | - | - | - | - | - | - | - | - |
| 15 | 9075 DKB | *24:02 | | - | - | - | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | *29:02 | | - | - | - | - | - | - | - | - | - |
| 17 | 9282 CTM3953540 | *03:01 | *80:01 | - | - | - | - | - | - | - | + | - |
| 18 | 9257 32367 | *33:03 | *74:01 | - | + | + | - | - | - | - | - | - |
| 19 | 9038 BM16 | *02:01 | | - | - | - | - | - | - | - | - | - |
| 20 | 9059 SLE005 | *02:01 | | - | - | - | - | - | - | - | - | - |
| 21 | 9064 AMALA | *02:17 | | - | - | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | *02:01 | | - | - | - | - | - | - | - | - | - |
| 23 | 9124 IHL | *02:01 | *34:01 | - | - | - | - | - | - | - | - | - |
| 24 | 9035 JBUSH | *32:01 | | + | - | - | - | - | - | - | - | - |
| 25 | 9049 IBW9 | *33:01 | | - | + | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *02:05 | | - | - | - | - | - | - | - | - | - |
| 27 | 9191 CH1007 | *24:10 | *29:01 | - | - | - | - | - | - | - | - | - |
| 28 | 9320 BEL5GB | *02:01 | *29:02 | - | - | - | - | - | - | - | - | - |
| 29 | 9050 MOU | *29:02 | | - | - | - | - | - | - | - | - | - |
| 30 | 9021 RSH | *30:01 | *68:02 | - | - | - | + | - | - | - | - | - |
| 31 | 9019 DUCAF | *30:02 | | - | - | - | - | - | - | - | - | - |
| 32 | 9297 HAG | *02:01 | | - | - | - | - | - | - | - | - | - |
| 33 | 9098 MT14B | *31:01 | | - | - | - | - | - | - | - | - | - |
| 34 | 9104 DHIF | *31:01 | | - | - | - | - | - | - | - | - | - |
| 35 | 9302 SSTO | *32:01 | | + | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | *02:06 | *11:01 | - | - | - | - | - | - | - | - | - |
| 37 | 9065 HHKB | *03:01 | | - | - | - | - | - | - | - | - | - |
| 38 | 9099 LZL | *02:17 | | - | - | - | - | - | - | - | - | - |
| 39 | 9315 CML | *01:01 | *03:01 | - | - | - | - | - | - | - | - | - |
| 40 | 9134 WHONP199 | *02:07 | *30:01 | - | - | - | - | - | - | - | - | - |
| 41 | 9055 H0301 | *03:01 | | - | - | - | - | - | - | - | - | - |
| 42 | 9066 TAB089 | *02:07 | | - | - | - | - | - | - | - | - | - |
| 43 | 9076 T7526 | *02:06 | *02:07 | - | - | - | - | - | - | - | - | - |
| 44 | 9057 TEM | *66:01 | | - | - | - | - | - | - | - | - | - |
| 45 | 9239 SHJO | *23:01 | *24:02 | - | - | - | - | - | - | - | - | - |
| 46 | 9013 SCHU | *03:01 | | - | - | - | - | - | - | - | - | - |
| 47 | 9045 TUBO | *02:16 | *03:01 | - | - | - | - | - | - | - | - | - |
| 48 | 9303 TER-ND | *02:01 | *11:01 | - | - | - | - | - | - | - | - | - |

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Lot No.: **30R**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B low resolution SSP kit | | | | | | | | | | | | | | | | | | | |
| | | | Prod. No.: | Well | | | | | | | | | | | | | | | |
| | | | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| | | | | 201204201 | 201204202 | 201204203 | 201204204 | 201204205 | 201204206 | 201204207 | 201204208 | 201207209 | 201204210 | 201204211 | 201204212 | 201204213 | 201204214 | 201204215 | 201204216 |
| | IHWC cell line | B* | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *07:02 | | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | *52:01 | *73:01 | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 3 | 9011 E4181324 | *52:01 | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *15:10 | *53:01 | - | - | - | - | - | - | - | + | - | - | - | + | - | + | - | - |
| 5 | 9009 KAS011 | *37:01 | | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 6 | 9353 SM | *39:01 | *51:01 | - | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - |
| 7 | 9020 QBL | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 8 | 9025 DEU | *35:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - |
| 9 | 9026 YAR | *38:01 | | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 9107 LKT3 | *54:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | 9051 PITOUT | *44:03 | | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 9052 DBB | *57:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - |
| 13 | 9004 JESTHOM | *27:05 | | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | + |
| 14 | 9071 OLGA | *15:01 | *15:20 | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 15 | 9075 DKB | *40:01 | | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | *40:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | 9282 CTM3953540 | *08:01 | *55:01 | - | + | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 18 | 9257 32367 | *14:01 | *56:01 | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 9038 BM16 | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 20 | 9059 SLE005 | *40:01 | | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | 9064 AMALA | *15:01 | | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 22 | 9056 KOSE | *35:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9124 IHL | *40:02 | *56:02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | 9035 JBUSH | *38:01 | | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 25 | 9049 IBW9 | *14:02 | | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *58:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - |
| 27 | 9191 CH1007 | *07:05 | *51:01 | + | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 28 | 9320 BEL5GB | *44:02 | *44:03 | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | 9050 MOU | *44:03 | | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 9021 RSH | *42:01 | | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 31 | 9019 DUCAF | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 32 | 9297 HAG | *41:02 | | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - |
| 33 | 9098 MT14B | *40:01 | | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 34 | 9104 DHIF | *38:01 | | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 35 | 9302 SSTO | *44:02 | | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | *15:01 | *35:01 | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 37 | 9065 HHKB | *07:02 | | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 38 | 9099 LZL | *15:01 | | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 39 | 9315 CML | *08:01 | *27:05 | - | + | - | - | + | - | - | + | - | - | - | - | - | - | - | + |
| 40 | 9134 WHONP199 | *13:02 | *46:01 | - | - | + | + | - | - | + | - | - | + | - | + | - | - | - | - |
| 41 | 9055 H0301 | *14:02 | | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - |
| 42 | 9066 TAB089 | *46:01 | | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 43 | 9076 T7526 | *46:01 | | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 44 | 9057 TEM | *38:01 | | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 45 | 9239 SHJO | *42:01 | *50:01 | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - |
| 46 | 9013 SCHU | *07:02 | | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 47 | 9045 TUBO | *51:01 | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 48 | 9303 TER-ND | *35:01 | *44:03 | - | - | - | + | - | - | - | - | - | - | - | + | - | - | - | - |



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Lot No.: **30R**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B low resolution SSP kit | | | | | | | | | | | | | | | | | | | |
| | | | Prod. No.: | Well | | | | | | | | | | | | | | | |
| | | | | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| | | | | 201204217 | 201204218 | 201204219 | 201204220 | 201204221 | 201204222 | 201204223 | 201207224 | 201204225 | 201204226 | 201204227 | 201204228 | 201204229 | 201204230 | 201204231 | 201204232 |
| | IHWC cell line | B* | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *07:02 | | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - |
| 2 | 9280 LK707 | *52:01 | *73:01 | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - |
| 3 | 9011 E4181324 | *52:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *15:10 | *53:01 | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 9009 KAS011 | *37:01 | | + | - | - | + | - | - | - | - | - | - | - | - | + | - | - | - |
| 6 | 9353 SM | *39:01 | *51:01 | - | - | - | - | + | - | + | + | - | - | - | - | - | + | - | - |
| 7 | 9020 QBL | *18:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 9025 DEU | *35:01 | | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | 9026 YAR | *38:01 | | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - | - |
| 10 | 9107 LKT3 | *54:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + |
| 11 | 9051 PITOUT | *44:03 | | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 12 | 9052 DBB | *57:01 | | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 9004 JESTHOM | *27:05 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + |
| 14 | 9071 OLGA | *15:01 | *15:20 | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | 9075 DKB | *40:01 | | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | *40:02 | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| 17 | 9282 CTM3953540 | *08:01 | *55:01 | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | + |
| 18 | 9257 32367 | *14:01 | *56:01 | - | - | - | - | - | - | + | + | - | - | - | + | - | - | - | + |
| 19 | 9038 BM16 | *18:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 9059 SLE005 | *40:01 | | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - |
| 21 | 9064 AMALA | *15:01 | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | *35:03 | | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9124 IHL | *40:02 | *56:02 | - | - | - | - | - | - | - | - | - | + | - | + | - | - | - | + |
| 24 | 9035 JBUSH | *38:01 | | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - | - |
| 25 | 9049 IBW9 | *14:02 | | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *58:01 | | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | 9191 CH1007 | *07:05 | *51:01 | - | - | - | - | - | - | - | + | - | - | - | + | - | + | - | - |
| 28 | 9320 BEL5GB | *44:02 | *44:03 | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 29 | 9050 MOU | *44:03 | | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 30 | 9021 RSH | *42:01 | | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | - |
| 31 | 9019 DUCAF | *18:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 9297 HAG | *41:02 | | - | - | - | - | - | - | - | + | - | - | + | - | - | - | - | - |
| 33 | 9098 MT14B | *40:01 | | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - |
| 34 | 9104 DHIF | *38:01 | | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - | - |
| 35 | 9302 SSTO | *44:02 | | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 36 | 9024 KT17 | *15:01 | *35:01 | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 37 | 9065 HHKB | *07:02 | | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - |
| 38 | 9099 LZL | *15:01 | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 39 | 9315 CML | *08:01 | *27:05 | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | + |
| 40 | 9134 WHONP199 | *13:02 | *46:01 | - | - | - | - | - | - | - | - | - | - | + | + | - | - | + | - |
| 41 | 9055 H0301 | *14:02 | | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - |
| 42 | 9066 TAB089 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 43 | 9076 T7526 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 44 | 9057 TEM | *38:01 | | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - | - |
| 45 | 9239 SHJO | *42:01 | *50:01 | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | - |
| 46 | 9013 SCHU | *07:02 | | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - |
| 47 | 9045 TUBO | *51:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 48 | 9303 TER-ND | *35:01 | *44:03 | + | + | - | - | - | - | - | - | - | - | - | - | + | - | - | - |



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Lot No.: **30R**

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| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------------|--------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B low resolution SSP kit | | | | | | | | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | | | | | | | | |
| | | | | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | |
| | | | | Prod. No.: | 201204233 | 201204234 | 201204235 | 201204236 | 201204237 | 201204238 | 201204239 | 201204240 | 201204241 | 201204242 | 201204243 | 201204244 | 201204245 | 201204246 | 201204247 | 201204248 |
| | IHWC cell line | | B* | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + |
| 2 | 9280 LK707 | *52:01 | *73:01 | - | - | + | + | - | + | - | - | - | - | - | - | - | + | + | + | - |
| 3 | 9011 E4181324 | *52:01 | | - | - | + | + | - | + | - | - | - | - | - | - | - | - | + | - | - |
| 4 | 9275 GU373 | *15:10 | *53:01 | - | - | - | + | - | - | - | - | - | - | - | - | + | - | + | + | - |
| 5 | 9009 KAS011 | *37:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - |
| 6 | 9353 SM | *39:01 | *51:01 | - | - | + | + | - | - | - | - | - | - | - | - | + | - | + | + | - |
| 7 | 9020 QBL | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 8 | 9025 DEU | *35:01 | | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 9 | 9026 YAR | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 10 | 9107 LKT3 | *54:01 | | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | + | - |
| 11 | 9051 PITOUT | *44:03 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - |
| 12 | 9052 DBB | *57:01 | | - | - | - | + | - | - | - | - | - | - | + | - | - | - | + | - | - |
| 13 | 9004 JESTHOM | *27:05 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - |
| 14 | 9071 OLGA | *15:01 | *15:20 | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - | + | - |
| 15 | 9075 DKB | *40:01 | | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | + | - |
| 16 | 9037 SWEIG007 | *40:02 | | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | + | - |
| 17 | 9282 CTM3953540 | *08:01 | *55:01 | - | - | + | - | - | - | - | - | + | - | - | - | - | - | - | + | + |
| 18 | 9257 32367 | *14:01 | *56:01 | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | + | - |
| 19 | 9038 BM16 | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - | - |
| 20 | 9059 SLE005 | *40:01 | | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | + | - |
| 21 | 9064 AMALA | *15:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - | + | - |
| 22 | 9056 KOSE | *35:03 | | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 23 | 9124 IHL | *40:02 | *56:02 | - | - | - | - | - | + | + | - | - | + | - | + | - | - | - | + | - |
| 24 | 9035 JBUSH | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 25 | 9049 IBW9 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 26 | 9285 WT49 | *58:01 | | - | - | - | + | - | - | - | - | - | - | + | - | - | - | + | - | - |
| 27 | 9191 CH1007 | *07:05 | *51:01 | - | - | + | + | - | - | - | - | - | - | - | - | + | - | + | + | + |
| 28 | 9320 BEL5GB | *44:02 | *44:03 | - | - | - | - | - | - | + | + | - | - | - | - | - | - | + | - | - |
| 29 | 9050 MOU | *44:03 | | - | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - | - |
| 30 | 9021 RSH | *42:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + |
| 31 | 9019 DUCAF | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 32 | 9297 HAG | *41:02 | | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | + | + |
| 33 | 9098 MT14B | *40:01 | | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | + | - |
| 34 | 9104 DHIF | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 35 | 9302 SSTO | *44:02 | | - | - | - | - | - | - | + | + | - | - | - | - | - | - | + | - | - |
| 36 | 9024 KT17 | *15:01 | *35:01 | - | - | - | - | - | - | + | - | - | - | - | - | + | + | - | + | - |
| 37 | 9065 HHKB | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + |
| 38 | 9099 LZL | *15:01 | | - | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - | + |
| 39 | 9315 CML | *08:01 | *27:05 | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | + |
| 40 | 9134 WHONP199 | *13:02 | *46:01 | - | - | - | - | - | - | + | - | - | - | - | - | - | - | + | + | - |
| 41 | 9055 H0301 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 42 | 9066 TAB089 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 43 | 9076 T7526 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 44 | 9057 TEM | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 45 | 9239 SHJO | *42:01 | *50:01 | - | - | + | - | + | + | - | - | - | + | - | - | - | - | - | + | + |
| 46 | 9013 SCHU | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + |
| 47 | 9045 TUBO | *51:01 | | - | - | + | + | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 48 | 9303 TER-ND | *35:01 | *44:03 | - | - | - | - | - | - | + | - | - | - | - | - | + | - | + | + | - |



101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------------|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DR low resolution primer set | | | | | | | | | | | | | | | | | | | | |
| | | | | Prod. No.: | Well | | | | | | | | | | | | | | | |
| | | | | | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| | IHWC cell line | DRB1 | | | 201297201 | 201297202 | 201297203 | 201297204 | 201297205 | 201297206 | 201297207 | 201297208 | 201297209 | 201297210 | 201297211 | 201297212 | 201297213 | 201297214 | 201205515 | 201297216 |
| 1 | 9001 SA | *01:01 | | | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | *15:02 | *04:05 | | - | - | + | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 3 | 9011 E4181324 | *15:02 | | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *03:01 | | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - |
| 5 | 9009 KAS011 | *16:01 | | | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | 9353 SM | *04:07 | *08:03 | | - | - | - | - | - | - | - | + | - | + | - | - | - | - | - | - |
| 7 | 9020 QBL | *03:01 | | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - |
| 8 | 9025 DEU | *04:01 | | | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 9 | 9026 YAR | *04:02 | | | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 10 | 9107 LKT3 | *04:05 | | | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 11 | 9051 PITOUT | *07:01 | | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 12 | 9052 DBB | *07:01 | | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 13 | 9004 JESTHOM | *01:01 | | | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | 9071 OLGA | *08:02 | | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | + |
| 15 | 9075 DKB | *09:01 | | | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - |
| 16 | 9037 SWEIG007 | *11:01 | | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | + |
| 17 | 9282 CTM3953540 | *03:01 | *13:01 | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | + | + |
| 18 | 9257 32367 | *09:01 | *11:01 | | - | - | - | - | - | - | - | - | - | - | + | - | + | - | + | + |
| 19 | 9038 BM16 | *12:01 | | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 20 | 9059 SLE005 | *13:02 | | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | + |
| 21 | 9064 AMALA | *14:02 | | | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | *13:02 | *14:54 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | + |
| 23 | 9124 IHL | *08:03 | *14:14 | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| 24 | 9035 JBUSH | *11:01 | | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | + |
| 25 | 9049 IBW9 | *07:01 | | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *03:01 | | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - |
| 27 | 9191 CH1007 | *04:05 | *10:01 | | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - |
| 28 | 9320 BEL5GB | *04:16 | *07:01 | | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - |
| 29 | 9050 MOU | *07:01 | | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 30 | 9021 RSH | *03:02 | | | - | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - |
| 31 | 9019 DUCAF | *03:01 | | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - |
| 32 | 9297 HAG | *13:03 | | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - |
| 33 | 9098 MT14B | *04:04 | | | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 34 | 9104 DHIF | *11:01 | | | - | - | - | - | - | - | - | - | - | - | - | + | - | + | + | - |
| 35 | 9302 SSTO | *04:03 | | | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | *04:03 | *04:06 | | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 37 | 9065 HHKB | *13:01 | | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | + |
| 38 | 9099 LZL | *14:02 | | | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - |
| 39 | 9315 CML | *03:01 | *04:01 | | - | - | - | - | + | + | - | + | - | - | - | - | - | - | - | - |
| 40 | 9134 WHONP199 | *07:01 | *09:01 | | - | - | - | - | - | - | - | - | + | - | + | - | - | - | - | - |
| 41 | 9055 H0301 | *13:02 | | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | + |
| 42 | 9066 TAB089 | *08:03 | | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| 43 | 9076 T7526 | *09:01 | | | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - |
| 44 | 9057 TEM | *14:01 | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 45 | 9239 SHJO | *07:01 | | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 46 | 9013 SCHU | *15:01 | | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 47 | 9045 TUBO | *11:04 | *12:01 | | - | - | - | - | - | - | - | - | - | - | - | - | + | + | + | + |
| 48 | 9303 TER-ND | *01:03 | | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



101.701.24/06– including *Taq* pol., IFU-01
101.701.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **30R**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | |
|------------------------------|------|------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---|
| DR low resolution primer set | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | |
| | | | | 89 | 90 | 91 | 92 | 93 | 94 | 95 | | | |
| | | | | Prod. No.: | 201297217 | 201200618 | 201200619 | 201297220 | 201297229 | 201297230 | 201297231 | | |
| IHWC cell line | | | DRB1 | | | | | | | | | | |
| 1 | 9001 | SA | *01:01 | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 | LK707 | *15:02 | *04:05 | - | - | - | - | - | - | + | + | - |
| 3 | 9011 | E4181324 | *15:02 | | - | - | - | - | - | - | - | + | - |
| 4 | 9275 | GU373 | *03:01 | | + | - | - | - | + | - | - | - | - |
| 5 | 9009 | KAS011 | *16:01 | | - | - | - | - | - | - | - | + | - |
| 6 | 9353 | SM | *04:07 | *08:03 | - | - | - | - | - | - | + | - | - |
| 7 | 9020 | QBL | *03:01 | | + | - | - | - | + | - | - | - | - |
| 8 | 9025 | DEU | *04:01 | | - | - | - | - | - | - | + | - | - |
| 9 | 9026 | YAR | *04:02 | | - | - | - | - | - | - | + | - | - |
| 10 | 9107 | LKT3 | *04:05 | | - | - | - | - | - | - | + | - | - |
| 11 | 9051 | PITOUT | *07:01 | | - | - | - | - | - | - | + | - | - |
| 12 | 9052 | DBB | *07:01 | | - | - | - | - | - | - | + | - | - |
| 13 | 9004 | JESTHOM | *01:01 | | - | - | - | - | - | - | - | - | - |
| 14 | 9071 | OLGA | *08:02 | | - | - | - | - | - | - | - | - | - |
| 15 | 9075 | DKB | *09:01 | | - | - | + | - | - | - | + | - | - |
| 16 | 9037 | SWEIG007 | *11:01 | | - | - | - | - | + | - | - | - | - |
| 17 | 9282 | CTM3953540 | *03:01 | *13:01 | + | - | - | - | + | - | - | - | - |
| 18 | 9257 | 32367 | *09:01 | *11:01 | - | - | + | - | + | + | - | - | - |
| 19 | 9038 | BM16 | *12:01 | | - | - | - | - | + | - | - | - | - |
| 20 | 9059 | SLE005 | *13:02 | | + | - | - | - | + | - | - | - | - |
| 21 | 9064 | AMALA | *14:02 | | + | - | + | - | - | - | - | - | - |
| 22 | 9056 | KOSE | *13:02 | *14:54 | + | + | + | + | + | - | - | - | - |
| 23 | 9124 | IHL | *08:03 | *14:14 | + | - | + | + | + | - | - | - | - |
| 24 | 9035 | JBUSH | *11:01 | | - | - | - | - | + | - | - | - | - |
| 25 | 9049 | IBW9 | *07:01 | | - | - | - | - | - | - | + | - | - |
| 26 | 9285 | WT49 | *03:01 | | + | - | - | - | + | - | - | - | - |
| 27 | 9191 | CH1007 | *04:05 | *10:01 | - | - | - | - | - | - | + | - | - |
| 28 | 9320 | BEL5GB | *04:16 | *07:01 | - | - | - | - | - | - | + | - | - |
| 29 | 9050 | MOU | *07:01 | | - | - | - | - | - | - | + | - | - |
| 30 | 9021 | RSH | *03:02 | | + | - | - | - | + | - | - | - | - |
| 31 | 9019 | DUCAF | *03:01 | | + | - | - | - | + | - | - | - | - |
| 32 | 9297 | HAG | *13:03 | | + | - | - | - | + | - | - | - | - |
| 33 | 9098 | MT14B | *04:04 | | - | - | - | - | - | - | + | - | - |
| 34 | 9104 | DHIF | *11:01 | | - | - | - | - | + | - | - | - | - |
| 35 | 9302 | SSTO | *04:03 | | - | - | - | - | - | - | + | - | - |
| 36 | 9024 | KT17 | *04:03 | *04:06 | - | - | - | - | - | - | + | - | - |
| 37 | 9065 | HHKB | *13:01 | | + | - | - | - | + | - | - | - | - |
| 38 | 9099 | LZL | *14:02 | | + | - | + | - | + | - | - | - | - |
| 39 | 9315 | CML | *03:01 | *04:01 | + | - | - | - | + | + | - | - | - |
| 40 | 9134 | WHONP199 | *07:01 | *09:01 | - | - | + | - | - | - | + | - | - |
| 41 | 9055 | H0301 | *13:02 | | + | - | - | - | + | - | - | - | - |
| 42 | 9066 | TAB089 | *08:03 | | - | - | - | - | - | - | - | - | - |
| 43 | 9076 | T7526 | *09:01 | | - | - | + | - | - | - | + | - | - |
| 44 | 9057 | TEM | *14:01 | | - | + | + | + | + | - | - | - | - |
| 45 | 9239 | SHJO | *07:01 | | - | - | - | - | - | - | + | - | - |
| 46 | 9013 | SCHU | *15:01 | | - | - | - | - | - | - | - | + | - |
| 47 | 9045 | TUBO | *11:04 | *12:01 | - | - | - | - | + | - | - | - | - |
| 48 | 9303 | TER-ND | *01:03 | | - | - | - | - | - | - | - | - | - |

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **30R**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-A-B-DR SSP Combi Tray

Product number: 101.701-24/06 – including *Taq* pol.
 101.701-24u/06u – without *Taq* pol.

Lot number: 30R

Expiry date: 2015-February-01

Number of tests: 24 tests – Product No. 101.701-24/24u
 6 tests – Product No. 101.701-06/06u

Number of wells per test: 95 + 1

Well specifications:

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 1 | 2012-071-01 | 9 | 2012-019-09 | 17 | 2012-019-17 |
| 2 | 2012-019-02 | 10 | 2012-041-10 | 18 | 2012-019-18 |
| 3 | 2012-071-03 | 11 | 2012-019-11 | 19 | 2012-019-19 |
| 4 | 2012-019-04 | 12 | 2012-019-12 | 20 | 2012-019-20 |
| 5 | 2012-019-05 | 13 | 2012-019-13 | 21 | 2012-019-21 |
| 6 | 2012-019-06 | 14 | 2012-041-14 | 22 | 2012-019-22 |
| 7 | 2012-019-07 | 15 | 2012-019-15 | 23 | 2012-019-23 |
| 8 | 2012-019-08 | 16 | 2012-019-16 | 24 | 2011-931-24 |

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

Additional 5'- and 3'-primers in primer solutions 4, 5, 7, 8, 12, 14 to 17 and 20 to 23 were tested by separately adding one 3'-primer, respectively one 5'-primer. Additional 5'-primers in primer solutions 1 and 10 were tested by separately adding one 3'-primer. Additional 3'-primers in primer solutions 3, 6, 18 and 19 were tested by separately adding one 5'-primer.

In primer solutions 2, 9, 10, 11 and 15 one or two 5'-primers were not possible to test, and in primer solutions 3, 8, 18 and 19 one 3'-primer was not possible to test.

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 25 | 2012-042-01 | 41 | 2012-042-17 | 57 | 2012-042-33 |
| 26 | 2012-042-02 | 42 | 2012-042-18 | 58 | 2012-042-34 |
| 27 | 2012-042-03 | 43 | 2012-042-19 | 59 | 2012-042-35 |
| 28 | 2012-042-04 | 44 | 2012-042-20 | 60 | 2012-042-36 |
| 29 | 2012-042-05 | 45 | 2012-042-21 | 61 | 2012-042-37 |
| 30 | 2012-042-06 | 46 | 2012-042-22 | 62 | 2012-042-38 |
| 31 | 2012-042-07 | 47 | 2012-042-23 | 63 | 2012-042-39 |
| 32 | 2012-042-08 | 48 | 2012-072-24 | 64 | 2012-042-40 |
| 33 | 2012-072-09 | 49 | 2012-042-25 | 65 | 2012-042-41 |
| 34 | 2012-042-10 | 50 | 2012-042-26 | 66 | 2012-042-42 |
| 35 | 2012-042-11 | 51 | 2012-042-27 | 67 | 2012-042-43 |
| 36 | 2012-042-12 | 52 | 2012-042-28 | 68 | 2012-042-44 |
| 37 | 2012-042-13 | 53 | 2012-042-29 | 69 | 2012-042-45 |
| 38 | 2012-042-14 | 54 | 2012-042-30 | 70 | 2012-042-46 |
| 39 | 2012-042-15 | 55 | 2012-042-31 | 71 | 2012-042-47 |
| 40 | 2012-042-16 | 56 | 2012-042-32 | 72 | 2012-042-48 |

101.701.24/06– including *Taq* pol., IFU-01
 101.701.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **30R**

Lot-specific information

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

Additional 5'-primers and 3'-primers in primer solutions 27, 30, 38, 43, 53, 55 and 64 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. Additional 3'-primers in primer solutions 26, 37, 39 and 59 were tested by separately adding one additional 5'-primer. Additional 5'-primers in primer solutions 25, 45, 49 and 72 were tested by separately adding one additional 3'-primer.

In primer mixes 55 and 66 one 5'-primer was not possible to test, and in primer mixes 62 and 66 one 3'-primer was not possible to test.

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 73 | 2012-972-01 | 81 | 2012-972-09 | 89 | 2012-972-17 |
| 74 | 2012-972-02 | 82 | 2012-972-10 | 90 | 2012-006-18 |
| 75 | 2012-972-03 | 83 | 2012-972-11 | 91 | 2012-006-19 |
| 76 | 2012-972-04 | 84 | 2012-972-12 | 92 | 2012-972-20 |
| 77 | 2012-972-05 | 85 | 2012-972-13 | 93 | 2012-972-29 |
| 78 | 2012-972-06 | 86 | 2012-972-14 | 94 | 2012-972-30 |
| 79 | 2012-972-07 | 87 | 2012-055-15 | 95 | 2012-972-31 |
| 80 | 2012-972-08 | 88 | 2012-972-16 | | |

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

Additional 5'- and 3'-primers in primer solutions 81, 83 and 90 were tested by separately adding one 3'-primer, respectively one 5'-primer.

Additional 5'-primers in primer solutions 78, 84, 87 and 88 were tested by separately adding one 3'-primer. Additional 3'-primers in primer solutions 73, 75, 76, 82 and 92 were tested by separately adding one 5'-primer.

One, two or three of the 5'-primers in primer solution 73, 75, 76, 80 to 82, 85, 87 and 88 were not possible to test. One or two of the 3'-primers in primer solution 73, 75, 76, 85, 87 and 94 were not possible to test.

The negative control primer pairs, **Production No. 2012-002-01**, can detect contamination with PCR products diluted 10^{-7} .

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

Date of approval: 2012-October-17

Approved by:

Production Quality Control

101.701.24/06– including *Taq* pol., IFU-01
101.701.24u/06u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
“Instructions for Use” (IFU)

Lot No.: **30R**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-A-B-DR SSP Combi Tray
Product number: 101.701-24/24u, 06/06u
Lot number: 30R

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

Manufacturer: *Olerup* SSP AB
Franzengatan 5
SE-112 51 Stockholm, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

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

Stockholm, Sweden

Daniel Malica
Head of QA and Regulatory Affairs

101.701.24/06– including *Taq* pol., IFU-01
101.701.24u/06u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
“Instructions for Use” (IFU)

Lot No.: **30R**

Lot-specific information

ADDRESSES:

Manufacturer:

Olerup SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.com

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

Distributed by:

Olerup GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

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

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

Tel: 1-877-OLERUP1

Fax: 610-344-7989

E-mail: info.us@olerup.com

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

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