

101.702.24/06 – including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

## Olerup SSP<sup>®</sup> HLA-A-B-C SSP Combi Tray

**Product number:** 101.702-24/06 – including *Taq* pol.  
 101.702-24u/06u – without *Taq* pol.

**Lot number:** 02R

**Expiry date:** 2015-February-01

**Number of tests:** 24 tests – Product No. 101.702-24/24u  
 6 tests – Product No. 101.702-06/06u

**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. 02R.**

### CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*<sup>®</sup> HLA-A-B-C SSP COMBI TRAY LOT (96M)

The Lot-specific information for HLA-A-B-C Combi Tray including and without *Taq* polymerase is now 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*<sup>®</sup> HLA-A-B-C SSP Combi Tray lot was made (**Lot No. 96M**).

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

Well	5'-primer	3'-primer	rationale
10	-	-	Exchanged positive control primer pair.
14	-	-	Exchanged positive control primer pair.

The **HLA-B low resolution** specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*<sup>®</sup> HLA-A-B-C SSP Combi Tray lot was made (**Lot No. 96M**).

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

Well	5'-primer	3'-primer	rationale
50	Added	Added	Primer pair added for the B*58:36 allele.
52	-	-	Exchanged positive control primer pair.
55	-	-	Exchanged positive control primer pair.

The **HLA-C low resolution** specificity and interpretation tables have been updated for the HLA-DRB alleles described since the previous *Olerup SSP*<sup>®</sup> HLA-A-B-C SSP Combi Tray lot was made (**Lot No. 96M**).

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

Well	5'-primer	3'-primer	rationale
84	Removed	Removed	Primer pair removed to decrease tendencies of primer oligomer formation.
86	-	Added	3'-primer added for the C*16:35 allele.
89	-	-	Exchanged positive control primer pair.
95	Added	-	5'-primer added for the C*16:45 allele.

Change in revision R01 compared to R00:

1. The HLA-A\*33:48 allele is amplified by primer mix 14. This has been corrected in the specificity and interpretation tables.

Changes 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.

Change in revision R03 compared to R02:

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.

Change in revision R04 compared to R03:

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 R05 compared to R04:

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 R06 compared to R05:

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 R07 compared to R06:

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<sup>®</sup> HLA Class I, DRB, DQB1 and DPB1 amplicons as well as the amplicons generated by control primer pairs.

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

Length of PCR product	105	200	105	80	75	80
<b>5'-primer<sup>1</sup></b>	<b>164</b>	<b>340</b>	<b>440</b>	<b>45</b>	<b>45</b>	<b>43</b>
	5'-CAC <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-Tg g <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-Tgg <sup>3'</sup>
<b>3'-primer<sup>2</sup></b>	<b>231</b>	<b>2<sup>nd</sup> I</b>	<b>507</b>	<b>59</b>	<b>58</b>	<b>57</b>
	5'-TgC <sup>3'</sup>	5'-AAA <sup>3'</sup>	5'-TTg <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CTC <sup>3'</sup>
<b>A*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>B*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>C*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>DRB1</b>				<b>+</b>	<b>+</b>	
<b>DRB3</b>				<b>+</b>	<b>+</b>	
<b>DRB5</b>				<b>+</b>		
<b>DQB1</b>					<b>+</b>	
<b>DPB1</b>						<b>+</b>

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

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

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## PRODUCT DESCRIPTION

### HLA-A-B-C 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 HLA-C\*01:02 to C\*18:05 alleles into the groups C\*01:xx to C\*18:xx.

#### 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-C low resolution primers.

Well 96 – Negative Control.

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

Well No. 1 is marked with the Lot No. '02R'.

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.

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 primer mix 25 will amplify the C\*02:23 and

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C\*04:77 alleles, primer mix 27 will amplify the C\*03:05, C\*03:25, C\*03:27 and C\*03:143 alleles, primer mix 28 will amplify the C\*01:30 allele, primer mix 30 will amplify the A\*23:31, A\*24:106, C\*07:231 and C\*16:10 alleles, primer mix 31 will amplify the C\*07:02:30 and C\*08:16:02 alleles, primer mix 32 will amplify the C\*07:46 allele, primer mix 37 will amplify the A\*24:174 allele, primer mixes 41 and 65 will amplify the C\*03:102 allele, primer mix 45 will amplify the C\*15:51 allele, primer mix 49 will amplify the C\*03:129 allele, primer mix 53 will amplify the C\*15:25 allele, primer mix 55 will amplify the C\*15:39 allele, primer mix 64 will amplify the C\*15:02:04 allele, the C\*03:12 and 03:19 alleles will be amplified by primer mix 65, primer mix 66 will amplify the C\*06:72 allele, primer mix 67 will weakly amplify the C\*02:06 and 02:47 alleles 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-C alleles will be amplified by the HLA-C low resolution primer set, **wells 73 to 95**, except that primer mix 73 will amplify the B\*54:18 allele, primer mix 85 will amplify the B\*67:02 allele, primer mix 88 will amplify the A\*30:62 allele, primer mix 92 will amplify the B\*14:03 allele and primer mix 95 will amplify the A\*24:96, A\*24:106, A\*24:174, B\*08:16 and B\*46:25 alleles. Thus, the interpretation of HLA-C low resolution typings is only influenced by these alleles and not by other HLA class I 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 2012<sup>1</sup> will be amplified by the primers in the HLA-A low resolution primer set, **wells 1 to 24**. The HLA-A alleles will be grouped into their corresponding serological specificities<sup>2</sup>.

All the HLA-B alleles, i.e. **B\*07:02 to B\*83:01**, recognized by the HLA Nomenclature Committee in April 2012<sup>1</sup> will be amplified by the primers in the HLA-B low resolution primer set, **wells 25 to 72**. The HLA-B alleles will be grouped into their corresponding serological specificities<sup>3</sup>.

All the HLA-C alleles, i.e. **C\*01:02 to C\*18:05**, recognized by the HLA Nomenclature Committee in April 2012<sup>1</sup> will be amplified by the primers in the HLA-C low resolution primer set, **wells 73 to 95**. The HLA-C alleles will be grouped into the C\*01:xx to C\*18:xx groups<sup>4</sup>.

<sup>1</sup>HLA-A, HLA-B and HLA-C alleles listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>The A\*23:14:01 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.

<sup>3</sup>The B\*08:26, 08:50, 08:62, 08:85 and the 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.

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The B\*13:21, 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.

The B\*14:08 and the B\*39:25N, 39:30, 39:32-39:34, 39:47, 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, 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, 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 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, 55:49 and the B\*56:15, 56:19N, 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.

<sup>4</sup>The C\*01:05, 01:22, 01:35 and 01:36 and the B\*54:18 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-B low primer set.

The C\*12:18:02 and the B\*67:02 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-B low primer set.

The C\*14:06, 14:08-14:09 and 14:28 and the A\*30:62 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-A low primer set.

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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 <sup>1</sup>	Size of control band <sup>2</sup>	HLA-A serology <sup>3</sup>	Amplified HLA-A alleles <sup>4-6</sup>
<b>1<sup>7,8</sup></b>	120 bp, 145bp, 225 bp	<b>800 bp</b>	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
<b>2<sup>8</sup></b>	210 bp, 255 bp, 365 bp, 415 bp	<b>800 bp</b>	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 <sup>w</sup> , 02:79:01-02:97:02, 02:99, 02:101:01-02:128, 02:130-02:358, 03:01:03 <sup>w</sup> , 03:09 <sup>w</sup> , 03:23:01 <sup>w</sup> , 03:89 <sup>w</sup> , 03:108 <sup>w</sup> , 11:06 <sup>w</sup> , 11:18 <sup>w</sup> , 11:121 <sup>w</sup> , 24:28 <sup>w</sup> , 24:89 <sup>w</sup> , 26:03:01-26:03:02 <sup>w</sup> , 26:06 <sup>w</sup> , 26:07:02 <sup>w</sup> , 26:21 <sup>w</sup> , 26:30 <sup>w</sup> , 30:13 <sup>w</sup> , 30:16 <sup>w</sup> , 30:44 <sup>w</sup> , 30:46 <sup>w</sup> , 68:05 <sup>w</sup> , 68:15 <sup>w</sup> , 68:20 <sup>w</sup> , 68:30 <sup>w</sup>
<b>3<sup>9</sup></b>	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 <sup>w</sup> , 34:02:03-34:04, 34:07-34:09, 36:02
<b>4</b>	190 bp	<b>800 bp</b>	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
<b>5<sup>15</sup></b>	160 bp, 535 bp	<b>800 bp</b>	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
<b>6<sup>11</sup></b>	135 bp, 175 bp, 210 bp	<b>800 bp</b>	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>B*18:27</b>
<b>7<sup>12</sup></b>	175 bp, 205 bp	1070 bp	A2, A3, A9, A23, A24, A2403, A26	*02:17:01 <sup>w</sup> -02:17:02 <sup>w</sup> , 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
<b>8</b>	165 bp, 200 bp	<b>800 bp</b>	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, 34:01:01-34:09, 66:01-66:16, 68:01:01:01-68:88, 69:01

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<b>9<sup>7,10</sup></b>	75 bp	<b>800 bp</b>	A3, A25, A32	*25:01:01-25:16, 32:01:01-32:02, 32:04, 32:06-32:37, 32:39-32:41
<b>10<sup>7</sup></b>	85 bp	<b>800 bp</b>	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
<b>11<sup>7,8</sup></b>	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
<b>12<sup>7</sup></b>	125 bp, 185 bp	<b>800 bp</b>	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
<b>13</b>	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 <sup>w</sup> , 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
<b>14<sup>7</sup></b>	100 bp, 200 bp, 240 bp	<b>800 bp</b>	A2, A29	*02:237, 02:309, 03:95, 26:19, 26:22, 29:01:01:01-29:35, 30:57, 33:13, 33:48, 66:09
<b>15<sup>7,8,13,14</sup></b>	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
<b>16</b>	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
<b>17</b>	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
<b>18</b>	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
<b>19<sup>12</sup></b>	160 bp, 200 bp	<b>800 bp</b>	A74	*29:19, 74:01-74:15
<b>20<sup>11</sup></b>	220 bp, 245 bp	<b>800 bp</b>	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
<b>21</b>	240 bp, 375 bp	<b>800 bp</b>	A2, A26, A28, A68, A69	*02:55, 02:243, 24:82, 26:22, 33:22, 66:09, 68:29, 69:01
<b>22<sup>7,12</sup></b>	85 bp, 240 bp	<b>800 bp</b>	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
<b>23<sup>7,11</sup></b>	75 bp, 160 bp, 240 bp, 495 bp	<b>800 bp</b>	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

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<b>24<sup>13</sup></b>	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
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<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-A low resolution SSP typings. When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 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 specific PCR product(s) of the alleles amplified by these primer mixes are given.

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

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

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

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

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

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

In addition, wells 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.

<sup>3</sup>The 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.

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

<sup>4</sup>The A\*23:14:01 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.

<sup>6</sup>Primer mix 6 will amplify the B\*18:27 allele.

<sup>7</sup>Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

<sup>8</sup>The primer pairs in wells 1, 2, 11 and 15 will in many samples give rise to two or three HLA-specific PCR fragments.

<sup>9</sup>Primer mix 3 may faintly amplify the A\*30:04, 30:06, 30:17 and 30:29 alleles.

<sup>10</sup>Primer mix 9 may weakly amplify the A\*34 alleles.

<sup>11</sup>Primer mixes 6, 20 and 23 may have a tendency of primer dimer formation.

<sup>12</sup>Primer mix 22 might faintly amplify most A\*11 alleles.

<sup>13</sup>Primer mixes 15 and 24 may yield less specific PCR product than the other HLA-A low primer mixes.

<sup>14</sup>Primer mix 15 may have tendencies of unspecific amplifications.

<sup>15</sup>In 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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## SPECIFICITY TABLE

### HLA-B low resolution primer set

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

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	HLA-B serol. <sup>3</sup>	Amplified HLA-B alleles <sup>4,6</sup>
<b>25<sup>7,11</sup></b>	110 bp	<b>800 bp</b>	7, 703, 40, 41, 42, 48, 61	*07:02:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:47, 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, <b>C*02:23, C*04:77</b>
<b>26</b>	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
<b>27</b>	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 <sup>w</sup> , 15:45, 15:55, 15:68, 15:89 <sup>w</sup> , 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 <sup>w</sup> , 44:54, 44:57 <sup>w</sup> , 44:60, 44:106, 44:110, 44:135, 46:12, 51:64, 53:14, 55:51, 58:18, <b>C*03:05, C*03:25, C*03:27, C*03:143</b>
<b>28<sup>8,9,16</sup></b>	130 bp, 265 bp	<b>800 bp</b>	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, <b>C*01:30</b>

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<b>29<sup>9</sup></b>	185 bp, 235 bp	<b>800 bp</b>	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
<b>30</b>	190 bp	<b>800 bp</b>	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, <b>A*23:31, A*24:106, C*07:231, C*16:10</b>
<b>31</b>	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, <b>C*07:02:30, C*08:16:02</b>
<b>32</b>	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, <b>C*07:46</b>

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<b>33<sup>9,10,12</sup></b>	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
<b>34</b>	180 bp	<b>800 bp</b>	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
<b>35<sup>7</sup></b>	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
<b>36</b>	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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<b>37</b>	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, <b>A*24:174</b>
<b>38<sup>7</sup></b>	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
<b>39<sup>7</sup></b>	115 bp, 150 bp	1070 bp	18	*18:01:01:01-18:15, 18:17N-18:28, 18:30-18:71
<b>40<sup>7</sup></b>	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
<b>41</b>	150 bp	<b>800 bp</b>	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, <b>C*03:102</b>

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<b>42</b>	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
<b>43<sup>7,11</sup></b>	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
<b>44<sup>11</sup></b>	210 bp	<b>800 bp</b>	27, 37	*07:27, 08:49, 18:54, 37:01:01-37:33N, 38:17
<b>45</b>	170 bp	<b>800 bp</b>	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, <b>C*15:51</b>
<b>46<sup>7</sup></b>	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
<b>47</b>	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
<b>48</b>	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 <sup>?</sup> , 40:11:01 <sup>?</sup> -40:11:02 <sup>?</sup> , 40:14:01 <sup>?</sup> -40:15 <sup>?</sup> , 40:16, 40:18 <sup>?</sup> , 40:21 <sup>?</sup> -40:22N <sup>?</sup> , 40:23, 40:24 <sup>?</sup> -40:38 <sup>?</sup> , 40:42 <sup>?</sup> -40:43 <sup>?</sup> , 40:44, 40:45 <sup>?</sup> -40:46 <sup>?</sup> , 40:48 <sup>?</sup> -40:50 <sup>?</sup> , 40:51, 40:52 <sup>?</sup> , 40:53, 40:54 <sup>?</sup> -40:58 <sup>?</sup> , 40:59- 40:60, 40:61 <sup>?</sup> -40:65 <sup>?</sup> , 40:66, 40:67 <sup>?</sup> -40:69 <sup>?</sup> , 40:70, 40:71 <sup>?</sup> , 40:72:01-40:73, 40:74 <sup>?</sup> , 40:75, 40:77, 40:78 <sup>?</sup> , 40:79, 40:80 <sup>?</sup> -40:82 <sup>?</sup> , 40:83, 40:84 <sup>?</sup> -40:85 <sup>?</sup> , 40:86, 40:87:01 <sup>?</sup> - 40:88 <sup>?</sup> , 40:90 <sup>?</sup> -40:92 <sup>?</sup> , 40:93, 40:95 <sup>?</sup> , 40:96, 40:98 <sup>?</sup> - 40:102 <sup>?</sup> , 40:103, 40:104 <sup>?</sup> -40:108 <sup>?</sup> , 40:109-40:110, 40:111 <sup>?</sup> -40:116 <sup>?</sup> , 40:118N <sup>?</sup> -40:121 <sup>?</sup> , 40:123 <sup>?</sup> , 40:124:01, 40:124:02 <sup>?</sup> -40:126 <sup>?</sup> , 40:127, 40:128 <sup>?</sup> -40:130 <sup>?</sup> , 40:131, 40:132 <sup>?</sup> -40:134 <sup>?</sup> , 40:136 <sup>?</sup> -40:137 <sup>?</sup> , 40:138-40:140, 40:141 <sup>?</sup> , 40:145 <sup>?</sup> , 40:146-40:148, 40:149 <sup>?</sup> , 40:150, 40:151 <sup>?</sup> , 40:152-40:153, 40:154 <sup>?</sup> , 40:155N, 40:156 <sup>?</sup> , 40:158 <sup>?</sup> , 40:159, 40:160 <sup>?</sup> , 40:161-40:162, 40:163 <sup>?</sup> -40:164 <sup>?</sup> , 40:165, 40:166 <sup>?</sup> , 40:167, 40:168 <sup>?</sup> -40:171 <sup>?</sup> , 40:172,

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<b>60</b>	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, 52:01:01-52:19, 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
<b>61</b>	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 <sup>2</sup> , 41:06-41:20, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01-45:14, 47:02, 47:03 <sup>w</sup> , 50:01:01-50:02, 50:04-50:05, 50:07-50:16
<b>62</b>	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, 15:01:01-15:01:04, 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, 47:01:01-47:08, 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, 52:01:01-52:29, 53:17:01-53:17:02, 55:18, 55:34, 55:40, 78:05-78:06
<b>63<sup>9</sup></b>	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
<b>64</b>	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, 59:01:01-59:01:01:02, 59:05, 78:01:01-78:01:02, 78:02:02-78:03, 78:07, <b>C*15:02:04</b>
<b>65</b>	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, <b>C*03:12, C*03:19,</b> <b>C*03:102</b>
<b>66<sup>7</sup></b>	90 bp, 240 bp	<b>800 bp</b>	57	*55:14, 57:01:01-57:44, 57:46-57:50, 57:52-57:57, 58:36, <b>C*06:72</b>
<b>67<sup>7,14</sup></b>	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, <b>C*02:06<sup>w</sup>, C*02:47<sup>w</sup></b>
<b>68<sup>7</sup></b>	95 bp	1070 bp	8, 18, 22, 35, 37, 38, 39, 44, 51, 5102, 5103, 53, 78	*07:65 <sup>w</sup> , 07:134 <sup>w</sup> , 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 <sup>w</sup> , 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 <sup>w</sup> , 78:01:01-78:04, 78:07
<b>69<sup>7,11</sup></b>	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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<b>70<sup>15</sup></b>	360 bp	1070 bp	Bw4	
<b>71</b>	350 bp	1070 bp	Bw6	
<b>72</b>	285 bp	<b>800 bp</b>	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

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

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 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 specific PCR product(s) of the alleles amplified by these primer mixes are given.

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

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

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

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

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

Well number 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.

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

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

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

<sup>5</sup>The B\*08:26, 08:50, 08:62, 08:85 and the 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, 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.

The B\*14:08 and the B\*39:25N, 39:30, 39:32-39:34, 39:47, 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, 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, 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 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, 55:49 and the B\*56:15, 56:19N, 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.

<sup>6</sup>Due to sharing of sequence motifs, primer mix 25 will amplify the C\*02:23 and C\*04:77 alleles, primer mix 27 will amplify the C\*03:05, C\*03:25, C\*03:27 and C\*03:143 alleles, primer mix 28 will amplify the C\*01:30 allele, primer mix 30 will amplify the A\*23:31, A\*24:106, C\*07:231 and C\*16:10 alleles, primer mix 31 will amplify the C\*07:02:30 and C\*08:16:02 alleles, primer mix 32 will amplify the C\*07:46 allele, primer mix 37 will amplify the A\*24:174 allele, primer mixes 41 and 65 will amplify the C\*03:102 allele, primer mix 45 will amplify the C\*15:51 allele, primer mix 49 will amplify the C\*03:129 allele, primer mix 53 will amplify the C\*15:25 allele, primer mix 55 will amplify the C\*15:39 allele, primer mix 64 will amplify the C\*15:02:04 allele, the C\*03:12 and 03:19 alleles will be amplified by primer mix 65, primer mix 66 will amplify the C\*06:72 allele, primer mix 67 will weakly amplify the C\*02:06 and 02:47 alleles 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.

<sup>7</sup>Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

<sup>8</sup>Primer mix 28 may yield less specific PCR product than the other HLA-B low resolution primer mixes in B\*40, B\*41, B\*45, B\*49 and B\*50 alleles.

<sup>9</sup>Primer mixes 28, 29, 33 and 63 may give a lower yield of specific PCR product than the other HLA-B low resolution primer mixes.

<sup>10</sup>Primer mix 33 has tendencies of giving rise to nonspecific amplifications.

<sup>11</sup>Primer mixes 25, 43, 44, and 69 may give rise to a primer oligomer artifact.

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

<sup>13</sup>The C\*17:01 to C\*17:04 alleles might be faintly amplified by primer mix 49.

<sup>14</sup>Primer 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.

<sup>15</sup>The Bw4-associated HLA-A specificities A9, A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 70.

<sup>16</sup>Primer 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.

<sup>17</sup>Primer 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

### HLA-C low resolution SSP typing

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

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA class I <sup>3-5</sup> alleles
<b>73</b>	155 bp	<b>800 bp</b>	*01:02:01-01:66, <b>B*54:18</b>
<b>74<sup>7</sup></b>	130 bp, 200 bp, 270 bp, 300 bp	<b>800 bp</b>	*01:10, 01:43, 02:02:01-02:02:03, 02:02:05-02:40, 02:42-02:56, 04:32, 04:77, 06:08, 07:101, 07:148, 07:161, 08:31, 14:25, 15:42, 16:29, 17:01:01-01-17:06, 17:08-17:11, 18:03
<b>75<sup>14</sup></b>	280 bp	<b>800 bp</b>	*02:02:01-02:02:03, 02:02:05-02:03, 02:04 <sup>w</sup> , 02:05-02:13, 02:14 <sup>w</sup> , 02:15-02:25Q, 02:26:02-02:40, 02:42-02:56, 03:02:01-03:02:09, 03:04:01:01-03:04:25, 03:05-03:10, 03:14-03:17, 03:19, 03:23-03:29, 03:32-03:38:02, 03:40:01-03:42, 03:44-03:48, 03:51, 03:54, 03:57, 03:60, 03:63-03:65, 03:70-03:74, 03:77-03:78, 03:80, 03:82, 03:84, 03:87, 03:89-03:95, 03:98, 03:100-03:101, 03:104-03:111, 03:113-03:115, 03:117-03:118, 03:121N, 03:123, 03:125, 03:128-03:131, 03:134-03:136, 03:138-03:140, 03:143, 03:145-03:146, 04:03, 04:06, 04:16, 04:80, 04:107, 05:58:01, 06:03:01, 07:96, 15:02:01-15:09, 15:10:02-15:11, 15:13, 15:15-15:22, 15:24-15:35, 15:37-15:60, 16:34
<b>76<sup>8</sup></b>	170 bp, 275 bp	1070 bp	*03:02:01-03:04:06, 03:04:08-03:15, 03:17-03:40:02, 03:42-03:57, 03:59-03:79, 03:81-03:85, 03:87-03:93, 03:95-03:98, 03:100-03:109, 03:111-03:112, 03:114-03:146
<b>77</b>	280 bp	<b>800 bp</b>	*03:03:01-03:03:18, 03:11:01-03:13, 03:20N-03:22Q, 03:30-03:31, 03:43:01-03:43:02, 03:49-03:50, 03:52-03:53, 03:55-03:56, 03:58-03:59, 03:61-03:62, 03:66, 03:67 <sup>w</sup> , 03:68-03:69, 03:75-03:76, 03:79, 03:81, 03:83, 03:85-03:86, 03:88, 03:96-03:97, 03:102-03:103, 03:112, 03:116:01, 03:119-03:120, 03:122, 03:124, 03:126-03:127, 03:132-03:133, 03:141-03:142, 15:12
<b>78<sup>14</sup></b>	130 bp, 335 bp	<b>800 bp</b>	*02:02:01-02:02:03, 02:02:05-02:02:12, 02:02:14-02:20, 02:22-02:25Q, 02:27:01-02:38N, 02:40, 02:42-02:44, 02:46-02:56, 04:01:01:01-04:01:27, 04:01:29-04:01:37, 04:03-04:15:03, 04:17-04:20, 04:23-04:41, 04:43-04:102, 04:104-04:112, 05:26, 07:02:09, 07:125, 15:11, 15:36, 16:34
<b>79</b>	390 bp, 445 bp	1070 bp	*05:01:01:01-05:01:18, 05:03-05:74, 08:10, 16:40

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<b>80</b>	130 bp, 355 bp	<b>800 bp</b>	*02:06, 02:47, 06:02:01:01-06:02:01:02, 06:02:03-06:16N, 06:18-06:31, 06:33-06:76:01, 12:03:09, 12:15, 15:02:01-15:03, 15:07-15:08, 15:10:01-15:13, 15:15-15:18, 15:21, 15:26, 15:28, 15:31-15:35, 15:37-15:39, 15:41-15:45, 15:47-15:53, 15:56-15:58, 15:60
<b>81<sup>9</sup></b>	245 bp, 425 bp	<b>800 bp</b>	*07:01:01:01-07:33N, 07:35-07:235
<b>82<sup>6,10,14</sup></b>	115 bp, 165 bp, 265 bp, 390 bp	<b>800 bp</b>	*01:43, 07:101, 07:148, 07:161, 08:01:01-08:60
<b>83</b>	340 bp	1070 bp	*01:14, 01:59, 02:02:01-02:02:03, 02:02:05-02:11, 02:13-02:26:03, 02:28-02:40, 02:42-02:56, 03:07, 03:15, 03:45, 03:130, 03:140, 04:01:01:01-04:01:37, 04:03-04:10, 04:12-04:20, 04:23-04:28, 04:30-04:35, 04:37-04:54, 04:56-04:112, 05:01:01:01-05:01:18, 05:03-05:74, 06:02:01:01-06:02:01:02, 06:02:03-06:02:11, 06:02:13-06:10, 06:12-06:51, 06:53-06:76:01, 07:07, 07:09, 07:49, 07:76, 07:210, 08:10, 12:04:01-12:05, 12:09, 12:21, 12:33, 12:41, 12:54, 12:60, 14:04, 14:12, 15:02:01-15:06:03, 15:08-15:13, 15:15-15:20, 15:22-15:24, 15:26-15:42, 15:44-15:60, 16:02:01-16:02:09, 16:09, 16:12, 16:19, 16:25, 17:01:01:01-17:11, 18:01-18:05
<b>84<sup>6,12</sup></b>	100 bp, 160 bp, 220 bp	<b>800 bp</b>	*01:04, 01:21, 12:02:01-12:03:01:02, 12:03:03-12:03:07, 12:03:09-12:03:15, 12:03:17-12:03:19, 12:04:02-12:08, 12:10:01-12:13, 12:14:02-12:18:01, 12:19-12:25, 12:27-12:32, 12:34-12:58, 12:60-12:76, 14:02:08, 16:15:02
<b>85<sup>6</sup></b>	120 bp, 250 bp	<b>800 bp</b>	*01:21, 02:12, 02:49, 02:55, 04:01:01:01-04:01:37, 04:03-04:09N, 04:12-04:20, 04:23-04:35, 04:37-04:54, 04:56-04:112, 05:42, 05:46, 07:02:09, 07:125, 08:05, 08:21, 08:25, 12:02:01-12:03:03, 12:03:05-12:03:08, 12:03:10-12:03:12, 12:03:13 <sup>w</sup> , 12:03:14-12:03:20, 12:04:02, 12:06-12:08, 12:10:01-12:20, 12:22-12:32, 12:34-12:48, 12:50-12:76, 15:03, 15:16, 15:25, 16:01:01-16:02:09, 16:06-16:28, 16:30N-16:32, 16:34, 16:36-16:39, 16:41, 16:43-16:45, 17:01:04
<b>86<sup>15</sup></b>	160 bp, 210 bp	<b>800 bp</b>	*01:04, 01:09, 02:05, 02:17, 04:42, 06:02:01:01-06:02:01:02, 06:02:03-06:02:15, 06:02:17-06:03:02, 06:07-06:13, 06:15-06:34, 06:36-06:39, 06:41-06:71, 06:73-06:76:01, 07:31, 07:125, 07:177, 12:03:01:01-12:07, 12:11-12:13, 12:15, 12:19, 12:23, 12:25-12:26, 12:28-12:29, 12:31-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:50-12:55, 12:57-12:63, 12:65-12:66, 12:70-12:71, 12:75-12:76, 14:15-14:16, 16:04:01, 16:29, 16:33, 16:35, 16:42
<b>87<sup>14</sup></b>	130 bp, 255 bp	1070 bp	*02:02:01 <sup>w</sup> , 02:02:02-02:02:03, 02:02:05-02:13, 02:15-02:26:03, 02:28-02:40, 02:42-02:56, 03:07, 03:10, 03:15, 03:29, 03:45, 03:58, 03:86, 03:94, 03:99, 04:03, 04:06, 04:16, 04:37, 04:80, 04:103, 04:107,

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			05:01:01:01-05:01:18, 05:03-05:19, 05:21-05:42, 05:44:01-05:74, 06:03:01-06:03:02, 06:76:01, 08:10, 12:04:01-12:05, 12:09, 12:21, 12:33, 12:41, 12:60, 12:72, 15:02:01-15:06:03, 15:08-15:13, 15:15-15:22, 15:24, 15:26-15:35, 15:37-15:42, 15:44-15:60, 16:02:01-16:02:09, 16:09, 16:12, 16:18-16:19, 16:25, 16:37, 17:01:01:01-17:11
<b>88<sup>13</sup></b>	255 bp, 445 bp	1070 bp	*04:11, 04:29, 04:36, 04:55, 07:64, 12:55, 14:02:01-14:11, 14:13-14:37, 16:40, <b>A*30:62</b>
<b>89<sup>6,11</sup></b>	110 bp, 325 bp	<b>800 bp</b>	*02:06, 03:81, 04:108, 04:112, 05:36, 07:123, 07:173, 12:08, 12:15, 15:02:01-15:13, 15:15-15:24, 15:26-15:60, 16:20
<b>90<sup>13</sup></b>	180 bp, 210 bp, 240 bp	1070 bp	*02:13, 02:18, 02:33, 02:49, 04:01:01:01-04:01:22, 04:01:24-04:01:37, 04:03-04:10, 04:12-04:20, 04:23-04:32, 04:34-04:106, 04:108-04:112, 05:17, 05:25, 05:42, 05:55, 05:68, 06:05, 06:31, 07:02:09, 07:31, 07:177, 08:01:01-08:01:05, 08:03:01-08:03:02, 08:06, 08:08-08:11, 08:14, 08:16:01-08:16:02, 08:20-08:22, 08:24, 08:26N, 08:28, 08:36N, 08:38, 08:40-08:42, 08:44, 08:46, 08:50, 08:56-08:60, 12:14:01-12:14:02, 12:28, 12:58, 14:10, 14:15, 15:12, 15:25, 16:01:01-16:02:09, 16:04:01, 16:06-16:39, 16:41-16:42, 16:44-16:45
<b>91<sup>12,16,17</sup></b>	225 bp, 250 bp	<b>800 bp</b>	*01:60, 04:58, 05:23, 05:62, 08:07, 08:47, 12:14:01-12:14:02, 14:17, 15:25, 17:01:01:01-17:11
<b>92</b>	215 bp, 425 bp	<b>800 bp</b>	*01:02:01-01:03, 01:06-01:08, 01:10-01:20, 01:23-01:34, 01:37N-01:48, 01:51-01:54, 01:56N-01:66, 03:58, 03:86, 03:94, 03:99, 04:37, 05:16, 06:05-06:06, 06:17, 06:31, 07:07, 07:09, 07:49, 07:76, 07:210, 08:12, 12:09, 12:24, 14:02:01-14:05, 14:07N, 14:10-14:14, 14:17-14:27, 14:29-14:37, 16:04:01, 16:29, 16:33, 16:42, 18:01-18:05, <b>B*14:03</b>
<b>93</b>	325 bp, 380 bp	1070 bp	*01:03, 01:24, 01:34, 01:49-01:50, 01:55, 02:22, 03:03:01-03:04:26, 03:06-03:12, 03:14, 03:18-03:24, 03:26, 03:28-03:32, 03:34, 03:37-03:59, 03:61-03:70, 03:72-03:83, 03:85, 03:87-03:88, 03:90-03:93, 03:96, 03:98, 03:100-03:107, 03:109, 03:111-03:120, 03:122-03:131, 03:133-03:134, 03:136-03:138, 03:140-03:145, 04:01:01:01-04:01:15, 04:01:17-04:01:37, 04:03-04:20, 04:24-04:53, 04:55-04:71, 04:73-04:107, 04:109-04:112, 05:01:01:01-05:01:18, 05:03, 05:05-05:21, 05:23-05:74, 06:09, 06:14, 06:35, 06:72, 07:10, 07:28, 07:41, 07:43, 07:184, 07:196, 08:01:01-08:08, 08:10, 08:12-08:47, 08:49-08:60, 12:31, 12:44, 15:02:01-15:13, 15:15-15:21, 15:23-15:36, 15:38-15:54, 15:56-15:57, 15:59-15:60, 16:45, 17:01:01:01-17:11, 18:01-18:05

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<b>94<sup>13</sup></b>	135 bp	1070 bp	*03:02:01-03:04:24, 03:05-03:17, 03:19-03:38:02, 03:40:01-03:66, 03:67 <sup>w</sup> , 03:68-03:98, 03:100-03:136, 03:138-03:143, 03:146, 04:32, 04:77, 06:03:01, 07:96, 14:25, 15:02:10, 15:43, 18:03
<b>95<sup>14</sup></b>	160 bp, 235 bp	1070 bp	*04:14, 04:42, 04:68, 06:02:01:01-06:02:01:02, 06:02:03-06:02:19, 06:04-06:75, 07:01:01:01-07:02:07, 07:02:09-07:02:28, 07:02:30-07:25, 07:27:01-07:32N, 07:35-07:38:02, 07:41-07:63, 07:65-07:91, 07:93-07:95, 07:97-07:138, 07:140-07:151, 07:153-07:155, 07:157-07:176, 07:178-07:209, 07:211-07:222, 07:223 <sup>w</sup> , 07:224-07:235, 12:16, 16:01:01-16:02:09, 16:06-16:28, 16:30N-16:32, 16:34, 16:36-16:39, 16:41, 16:43-16:45, 18:01-18:05, <b>A*24:96, A*24:106, A*24:174, B*08:16, B*46:25</b>
<b>96<sup>18</sup></b>	<b>Negative control -</b>		

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

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 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 specific PCR product(s) of the alleles amplified by these primer mixes are given.

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

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

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

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

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

Well number 73 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-C low resolution typing.

In addition, wells number 74, 75, 77, 78, 80 to 82, 84 to 86, 89, 91 and 92 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

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

<sup>4</sup>Due to sharing of sequence motifs, primer mix 73 will amplify the B\*54:18 allele, primer mix 85 will amplify the B\*67:02 allele, primer mix 88 will amplify the A\*30:62 allele, primer mix 92 will amplify the B\*14:03 allele and primer mix 95 will amplify the A\*24:96, A\*24:106, A\*24:174, B\*08:16 and B\*46:25 alleles.

<sup>5</sup>The C\*01:05, 01:22, 01:35 and 01:36 and the B\*54:18 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-B low primer set.

The C\*12:18:02 and the B\*67:02 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-B low primer set.

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The C\*14:06, 14:08-14:09 and 14:28 and the A\*30:62 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-A low primer set.

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

<sup>7</sup>Primer mix 74 will for most C\*02 alleles give rise to two specific PCR fragments.

<sup>8</sup>Primer mix 76 will for most C\*03 alleles give rise to two specific PCR fragments.

<sup>9</sup>Primer mix 81 will for most C\*07 alleles give rise to two specific PCR fragments.

<sup>10</sup>Primer mix 82 will for most C\*08 alleles give rise to multiple specific PCR fragments.

<sup>11</sup>Primer mix 89 will for most C\*15 alleles give rise to two specific PCR fragments.

<sup>12</sup>Primer mixes 84 and 91 may give rise to unspecific amplification.

<sup>13</sup>Primer mixes 88, 90 and 94 have a tendency of giving rise to primer oligomer artifacts.

<sup>14</sup>Primer mixes 75, 78, 82, 87 and 95 may yield less HLA-specific PCR fragments than the other HLA-C low resolution primer mixes.

<sup>15</sup>Primer mix 86 might faintly amplify most C\*01 and the C\*14 alleles.

<sup>16</sup>Primer mix 91 might generate a false band of about 500 base pairs. This band should be disregarded when interpreting HLA-C low resolution typings.

<sup>17</sup>Primer mix 91 may give rise to weaker positive control bands than the other HLA-C low primer mixes.

<sup>18</sup>Primer 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 <sup>6</sup>																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.		225	145	120						75	85	80	185	125	225	175		180	140						
PCR product(s)		415	365	255	210							500	175	80	240	200	100			200	160				
Length of int. pos. control <sup>1</sup>		800	800	1070	800	800	800	1070	800	800	800	1070	800	1070	800	1070	1070	1070	1070	800	800	800	800	800	1070
5'-primer(s) <sup>2</sup>		5'-ATA <sup>3'</sup> 363	5'-AgT <sup>3'</sup> 123	5'-CCA <sup>3'</sup> 106	5'-ATA <sup>3'</sup> 363	5'-CTA <sup>3'</sup> 98	5'-gCC <sup>3'</sup> 144	5'-gTT <sup>3'</sup> 368	5'-gTT <sup>3'</sup> 368	5'-ACA <sup>3'</sup> 413	5'-Agg <sup>3'</sup> 266	5'-AAC <sup>3'</sup> 261	5'-ggc <sup>3'</sup> 385	5'-gCT <sup>3'</sup> 423	5'-gCT <sup>3'</sup> 423	5'-AgA <sup>3'</sup> 355	5'-ATA <sup>3'</sup> 363	5'-AgC <sup>3'</sup> 418	5'-gAA <sup>3'</sup> 203	5'-CAC <sup>3'</sup> 98	5'-TTT <sup>3'</sup> 180	5'-TCT <sup>3'</sup> 78	5'-TCg <sup>3'</sup> 28	5'-TCT <sup>3'</sup> 78	5'-gCA <sup>3'</sup> 176
3'-primer(s) <sup>3</sup>		5'-AgA <sup>3'</sup> 545	5'-gTg <sup>3'</sup> 292	5'-CCT <sup>3'</sup> 527	5'-CTg <sup>3'</sup> 256	5'-CCC <sup>3'</sup> 265	5'-ACA <sup>3'</sup> 270	5'-gTT <sup>3'</sup> 259	5'-gTT <sup>3'</sup> 259	5'-ggc <sup>3'</sup> 302	5'-TCg <sup>3'</sup> 299	5'-CgT <sup>3'</sup> 341	5'-TgT <sup>3'</sup> 506	5'-gAC <sup>3'</sup> 282	5'-gAC <sup>3'</sup> 282	5'-gCA <sup>3'</sup> 257	5'-CCA <sup>3'</sup> 299	5'-CAA <sup>3'</sup> 290	5'-gAA <sup>3'</sup> 317	5'-CCC <sup>3'</sup> 256	5'-CCA <sup>3'</sup> 299	5'-CCC <sup>3'</sup> 265	5'-ggT <sup>3'</sup> 97	5'-CCC <sup>3'</sup> 265	5'-gTg <sup>3'</sup> 292
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 allele <sup>4</sup>	ser <sup>5</sup>																								
*01:01:01:01-01:01:22, 01:01:24-01:04N, 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- 01:109	A1, Null, -	1			4																				
*01:01:23, 01:08, 01:14- 01:15N, 01:30, 01:79, 01:99	A1, Null, -	1																							
*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, Low A2, A203, A210, A2, 19, 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
*03:01:01:01-03:01:18, 03:01:20-03:01:22, 03:01:24- 03:07, 03:09-03:11N, 03:13- 03:17:01, 03:19-03:23:02, 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, 03:89, 03:107-03:108, 03:111, 03:142	Null, -			3																					
*03:89, 03:108	-		w	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	
*03:95	-													13	14	16									
*11:01:01-11:09, 11:12- 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- 11:122	A11, Null, -				4								11												
*11:06, 11:18, 11:121	A11, -		w		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 <sup>7</sup>	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																	
*24:14-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138, 24:188	A24(9), -					5																			

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: 02R

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	
*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												
*29:01:01:01-29:06, 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, 30:09-12, 30:14L, 30:15, 30:17-30:20, 30:22- 40:43, 30:45, 30:47-30:54, 30:56, 30:58-30:63	A30(19) , Null, -															15										
*30:08	-				4											15										
*30:13, 30:16, 30:44, 30:46	A30(19) , -		w													15										
*30:55	-													13		15										
*30:57	-														14	15										

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 101.702.24u/06u – without *Taq* pol., IFU-02

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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
*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, 33:48	-									10				14				18							
*33:19	-							7										18							
*33:22	-																	18		21					
*33:24	-																	18					23		
*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											
*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					
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

101.702.24/06– including *Taq* pol., IFU-01  
101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

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
*68:30	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

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

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

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

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

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

<sup>4</sup>The sequence of the A\*0105N has been shown to be identical to A\*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 allele has been shown to be identical 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\*02:100 allele has never been assigned.

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 sequence of 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.

<sup>5</sup>The 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.

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

<sup>7</sup>The A\*23:14 and the A\*24:05, 24:13:02 and 24:24 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.

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

Lot-specific information

<b>INTERPRETATION TABLE</b>																																															
<b>HLA-B low resolution SSP</b>																																															
<b>Amplification patterns of the B*07:02 to B*83:01 alleles</b>																																															
<b>Well</b>																																															
	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		195			435	150				400					425																							
Length of int. pos. control <sup>1</sup>	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) <sup>2</sup>	5'-TgA <sup>3</sup> 527	5'-TCg <sup>3</sup> 97	5'-ggC <sup>3</sup> 209	5'-CCg <sup>3</sup> 103	5'-CCT <sup>3</sup> 103	5'-CCg <sup>3</sup> 103	5'-ggA <sup>3</sup> 45	5'-ggA <sup>3</sup> 45	5'-ggA <sup>3</sup> 45	5'-TTA <sup>3</sup> 420	5'-AgA <sup>3</sup> 206	5'-gTC <sup>3</sup> 419	5'-TCT <sup>3</sup> 142	5'-ggA <sup>3</sup> 45	5'-Cgg <sup>3</sup> 161	5'-gCT <sup>3</sup> 167	5'-TCA <sup>3</sup> 355	5'-gAC <sup>3</sup> 206	5'-ggA <sup>3</sup> 45	5'-TCT <sup>3</sup> 142	5'-ggC <sup>3</sup> 409	5'-gAA <sup>3</sup> 246	5'-ggC <sup>3</sup> 44																								
3'-primer(s) <sup>3</sup>	5'-gCT <sup>3</sup> 605	5'-Tgg <sup>3</sup> 272	5'-gTg <sup>3</sup> 309	5'-CgT <sup>3</sup> 193	5'-TAT <sup>3</sup> 246	5'-TAT <sup>3</sup> 246	5'-Tgg <sup>3</sup> 165	5'-CCT <sup>3</sup> 206	5'-TCC <sup>3</sup> 266	5'-CTC <sup>3</sup> 559	5'-Tgg <sup>3</sup> 272	5'-TAT <sup>3</sup> 3rd	5'-gTC <sup>3</sup> 301	5'-ATC <sup>3</sup> 309	5'-TCT <sup>3</sup> 234	5'-TCT <sup>3</sup> 204	5'-gCT <sup>3</sup> 463	5'-ggC <sup>3</sup> 302	5'-gTT <sup>3</sup> 259	5'-ggg <sup>3</sup> 311	5'-ggT <sup>3</sup> 544	5'-ggA <sup>3</sup> 317	5'-TgC <sup>3</sup> 272																								
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																							



101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

Lot-specific information

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 <sup>1</sup>
																								5'-primer(s) <sup>2</sup>
																								3'-primer(s) <sup>3</sup>
																								Well No.

101.702.24/06– including *Taq* pol., IFU-01  
101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

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 <sup>4,13</sup>	ser. <sup>5</sup>																									
*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							48
*07:28	-	25				30																				48
*07:36, 07:81, 07:149	-	25																								48
*07:38	-	25																								48
*07:47	-	25																								48
*07:48, 07:51	-																									48
*07:50	-	25										35														48
*07:54, 07:123	-	25																								48
*07:60	-			27																						48
*07:65	-	25																	42							48
*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	

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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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. <sup>5</sup>	HLA-B allele <sup>4,13</sup>	
			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
			52																			71	72	-	*07:02:32
																						71	72	B703, -	*07:03, 07:08, 07:16, 07:32, 07:37
		51	52																			71	72	B7, -	*07:04, 07:25, 07:146
			52																			71		B7, -	*07:07, 07:77
			52																			71	72	B7	*07:09, 07:11, 07:17
			52																			71		B7, -	*07:19, 07:33, 07:40, 07:53, 07:122, 07:139
			52																			71	72	B7, -	*07:20, 07:24, 07:131
																					70	72		-	*07:27
			52																			71	72	-	*07:28
			52																			70	72	-	*07:36, 07:81, 07:149
																						70	72	-	*07:38
			w																			71	72	-	*07:47
			52																			71	72	-	*07:48, 07:51
																						71	72	-	*07:50
			52									62										71	72	-	*07:54, 07:123
			52																			71		-	*07:60
			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

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		51										62										71	72	-	*08:17, 08:54
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		51																				71	72	-	*08:28, 08:37
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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																									
*13:36	-				27 28						34							41								
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																							ser. <sup>5</sup>	HLA-B allele <sup>4</sup>																				
								57									70							-	*13:36																			
												62							71							-	*13:39																	
												62							69	70							-	*13:41																
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												62							69	71	B62(15)						*15:01:02																	
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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.																				

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*15:18:03	B71(70)								32				36		38					43					
*15:20	B62(15)							31					36					41		43					
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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																								
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*15:57	-							31					36							43					
*15:62	-								32			35	36					41		43					
*15:64	-								32			35	36							43					
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*15:116	-							31					36							43					
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*15:137	-							31												43					
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*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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 101.702.24u/06u – without *Taq* pol., IFU-02

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								57														71		B75(15),	*15:21, 15:44		
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								57															71		B15		*15:55
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												62											71		-		*15:74
			52					w													69	71		-		*15:76	
												62									69	71		-		*15:77	
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					54							62											71		-		*15:83
50												62									69	71		-		*15:85	
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								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	
												62									69	71		-		*15:154, 15:165	
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 <sup>4</sup>	ser. <sup>5</sup>																								
*15:161	-								32				36	37	38					43					
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*15:186	-								32				36		38					43		45			
*15:189	-						30	31					36		38					43					
*15:194	-							31					36					41		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						
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*18:09	B18												36		39										
*18:12	-												36		39				42						
*18:19	-												36		39				42						
*18:22, 18:69	-												36		39			41	42						
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*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							
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 101.702.24u/06u – without *Taq* pol., IFU-02

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																						71		-	*15:161	
																				69		71		-	*15:180	
																						71		-	*15:186	
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												62								69		71		-	*15:236	
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																			68		70			B18	*18:09	
												62										71		-	*18:12	
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							55													68		71		-	*18:22, 18:69	
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																			68			71		-	*18:44:01	
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	
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 <sup>4</sup>	ser. <sup>5</sup>																									
*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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*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									
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			52				56					62									70			B27, *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 Null, - 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	
			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	
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												62									71			B27 *27:12	
			52				56					62									70			B27, - *27:14, 27:81	
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			52				56					62									70			B27 *27:19	
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			52				56	57				62									70			- *27:24	
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			52				56				60	62									69	70		- *27:75	
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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.	

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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																									
*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							
*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							
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*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							
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*35:19	B35												36					41								
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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																									
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*35:42:02	-												36					41	42							
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*35:163	-																	41	42							
*35:164	-			27														41	42							
*35:185	-												36						42							
*35:186	-												36					41	42							
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*37:04:01-37:04:02	B37, -														37			41			44					
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*37:12	-								32						37						44					
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																			68			71		-	*35:22, 35:199
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50								57														71		B35	*35:46
												61										71		-	*35:47
															64				68			71		B35	*35:60
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				53															68			71		-	*35:115
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			52				56															71		-	*35:186
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				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
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				53								62										71		-	*37:05
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				53								62										71		-	*37:11
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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.



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*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	
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*38:04, 38:25	-																						45		47	
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*38:07	-					29																	45			
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*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	
*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	B3901, B39(16), -																						45		47	48
*39:02:01, 39:08	B3902, B39(16)					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
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*39:10:01-39:10:02, 39:16, 39:20	B39(16), -																						45			48
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*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	
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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																									
*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
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*39:63	-																						45		48	
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*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
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*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	B60(40)					28																				
*40:10:02, 40:135	-					28																				
*40:12	-										32		35								43					
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*40:16	B61(40)					25																				48
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																							ser. <sup>5</sup>	HLA-B allele <sup>4</sup>	
																							71	-	*39:39:01
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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	
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49												61	62	64								71	-	*40:01:11	
	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	
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	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	
49	?											61	62									71	-	*40:10:02, 40:135	
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	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 <sup>4</sup>	ser. <sup>5</sup>																								
*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																				?
*40:31, 40:45, 40:80	B60(40), -				28																				?
*40:38, 40:52	B60(40), -				28							36													?
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*40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:162, 40:165, 40:167, 40:190	-																								48
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*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	-																								?
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*40:74, 40:149	-																								?
*40:76	-				28																				?
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*40:95	-																								?
*40:96	-																								48
*40:98	-	25																							?
*40:105	-											36													?
*40:109	-																								48
*40:110	-				28																				48
*40:117	-				28																				48
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																							ser. <sup>5</sup>	HLA-B allele <sup>4</sup>	
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
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49	?											61	62									71	72	B60(40), -	*40:30, 40:34, 40:160
	?							57				61	62									71	72	B60(40), -	*40:31, 40:45, 40:80
49	?											61	62									71		B60(40), -	*40:38, 40:52
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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
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	?								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	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 <sup>4</sup>	ser. <sup>5</sup>																								
*40:132, 40:178	-				28																				?
*40:136	-	25			28				32						38										?
*40:137	-																								?
*40:138	-																								48
*40:148, 40:161	-																								48
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*40:158	-	25			28								36												?
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*41:03:01-41:03:02, 41:15	B41, -				28				32																48
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*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
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 101.702.24u/06u – without *Taq* pol., IFU-02

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												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. <sup>5</sup>	HLA-B allele <sup>4</sup>	
49	?			53								61	62									71			-	*40:132, 40:178
	?	51										61	62									71			-	*40:136
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49												61	62									71			-	*40:138
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	?											61	62									71			-	*40:159
49	?		52									61										71			-	*40:166
49												61	62									71			-	*40:170
	?											61	62									71			-	*40:174
49	?											61	62									71			-	*40:183
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		51										61	62									71			-	*41:08
					54							61	62									71			-	*41:09, 45:02-45:03 <sup>10</sup>
		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
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		51	52	53																		71	72		-	*42:13
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*44:06	B44(12)																	41								
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*44:09	B45(12)				28													41								
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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	

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 101.702.24u/06u – without *Taq* pol., IFU-02

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49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	Well No.		
																									ser. <sup>5</sup>	HLA-B allele <sup>4</sup>
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				53								62									70				B44(12), - *44:03:07, 44:07, 44:81, 44:103, 44:111, 44:134	
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					54				58			62				65					70				- *44:18	
				53	54							62	63								70				- *44:20, 44:100	
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				53								62	63								70				- *44:44	
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				53								62									70				B44(12) *44:54	
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				53					58	60		62	63								70				- *44:95	
				52	53		56					62	63								70				- *44:97	
				53								62	63								70				- *44:106	
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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*46:11	-								31																
*46:12	-				27				31				36												
*46:17	-								31				36	37											
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49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	Well No.		
																							ser. <sup>5</sup>	HLA-B allele <sup>4</sup>		
				53								62	63											-	*44:127	
				53								61	62	63								71		-	*44:131	
				53								62				65						70		-	*44:140	
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					54							61	62		64							71		-	*45:08	
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					52		55														69	71		-	*46:12	
					52		55														69	71		-	*46:17	
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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																									
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																						ser. <sup>5</sup>	HLA-B allele <sup>4</sup>		
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									59	61	62					65						71		-	*50:07
									59	61	62											71		-	*50:09
										61	62					65						71		-	*50:12
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 101.702.24u/06u – without *Taq* pol., IFU-02

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																							ser. <sup>5</sup>	HLA-B allele <sup>4</sup>		
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					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	
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					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	
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					54						60								68		70			-	*51:45	
										59									68		70			-	*51:54, 51:78:01-51:78:02	
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					54						60					65		67	68		70			-	*51:62	
					54						60								68		70			-	*51:64	
					54					59	60								68		70			-	*51:68	
					54						60								68		70			-	*51:81	
										59	60								68		70			-	*51:93	
					54					59	60								68		70			-	*51:97	
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					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
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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.		

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<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>5</sup></b>																								
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*54:03	-																								
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*54:20	-																								
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*55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:15, 56:19N, 56:22 <sup>12</sup>	B55(22), B56(22), -, Null																								
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*55:34	-																								
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*55:51	-			27																					
*55:56	-								32																
<b>Well No.</b>		<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>

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																								ser. <sup>5</sup>	HLA-B allele <sup>4</sup>
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											60	62									70			-	*53:17:01-53:17:02
				53							60								68		70			-	*53:22
			52				56						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
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			52				56					63	65									71		-	*54:03
			52				56					63										71		-	*54:04, 54:15
			52				56					63									69	71		-	*54:06
			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
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			52			56						62	64									71		-	*55:34
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			52			56																71		-	*55:51
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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.

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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																									
*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, -																									
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*56:03	B22												36													
*56:05:01	B56(22)										33															
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*56:17, 56:33	-																									
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*56:21	-											33														
*56:23	-																									
*56:25	-																									
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*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47	B57(17), -												36													
*57:02:01-57:03:02, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46, 57:57	B57(17), Null, -																		41							
*57:04	B57(17)							30											41							
*57:05	-																		41							
*57:07	-																		41							
*57:09	-										32								41							
*57:12	-																		41							
*57:14	-												36						41							
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*58:01:03, 58:02, 58:06, 58:16, 58:25-58:26	B58(17), -												36													
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																								ser. <sup>5</sup>	HLA-B allele <sup>4</sup>
			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
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			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		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
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			52				56									65						71		-	*56:20:02
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			52				56			59						65						71		-	*56:25
											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
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											60						66					70		B57(17)	*57:04
	50										60						66					70		-	*57:05
											60						66					70		-	*57:07
				53							60						66					70		-	*57:09
											60						66					71		-	*57:12
							55				60						66					70		-	*57:14
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											60							67				70		-	*58:07
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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<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>5</sup></b>																								
*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							
*58:36	-											36						41							
*59:01:01:01-59:01:01:02, 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															
*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	
<b>Well No.</b>		<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

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. <sup>5</sup>	Well No. HLA-B allele <sup>4</sup>	
					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	
	50										60						66				70			-	*58:36	
										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								71	B78, -	*78:01:01-78:01:02, 78:02:02-78:03, 78:07	
											59												71	B78, -	*78:02:01, 78:04	
											59			62									71	-	*78:05	
											59			62									71	-	*78:06	
			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.	

101.702.24/06– including *Taq* pol., IFU-01  
101.702.24u/06u – without *Taq* pol., IFU-02

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**Lot No.: 02R****Lot-specific information**

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

Well number 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, 54, 59, 66 and 72 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

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

<sup>4</sup>The 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.

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.

<sup>5</sup>The 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.

<sup>6</sup>The B\*08:26, 08:50 and 08:62 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.

<sup>7</sup>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.

<sup>8</sup>The B\*18:29 and the B\*35:32, 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.

<sup>9</sup>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.

101.702.24/06– including *Taq* pol., IFU-01  
101.702.24u/06u – without *Taq* pol., IFU-02

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<sup>10</sup>The B\*54:01:02 and the B\*55:01:07-55:02:06, 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.

<sup>11</sup>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.

<sup>12</sup>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.

‘ser’, serological HLA specificity.

<sup>13</sup>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 in addition to the alleles specified in the tables.

‘w’, might be weakly amplified.

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



101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

Lot-specific information

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
HLA-C allele <sup>4</sup>																								
*01:02:01-01:02:15, 01:06-01:08, 01:11-01:13, 01:15-01:20, 01:23, 01:25-01:33, 01:37N-01:42, 01:44- 01:48, 01:51-01:54, 01:56N- 01:58, 01:61-01:66	73																			92				
*01:03, 01:24, 01:34	73																			92	93			
*01:04	73											84		86										
*01:05, 01:22, 01:35-01:36, <i>B*54:18</i> <sup>6</sup>	73																							
*01:09	73													86										
*01:10	73	74																		92				
*01:14, 01:59	73											83								92				
*01:21	73											84	85											
*01:43	73	74									82									92				
*01:49-01:50, 01:55	73																					93		
*01:60	73																		91	92				
*02:02:01		74	75			78						83			w									
*02:02:02-02:02:03, 02:02:05- 02:02:12, 02:02:14-02:03, 02:07- 02:11, 02:15-02:16:02, 02:19- 02:20, 02:23-02:25Q, 02:28- 02:32, 02:34-02:38N, 02:40, 02:42-02:44, 02:46, 02:48, 02:50- 02:54, 02:56		74	75			78						83			87									
*02:02:13, 02:21, 02:26:02- 02:26:03, 02:39, 02:45		74	75									83			87									
*02:04		74	w			78						83			87									
*02:05, 02:17		74	75			78						83		86	87									
*02:06		74	75			78	80					83			87		89							
*02:12		74	75			78							85		87									
*02:13, 02:18, 02:33		74	75			78						83			87		90							
*02:14		74	w			78						83												
*02:22		74	75			78						83			87							93		
*02:26:01		74										83			87									
*02:27:01-02:27:02		74	75			78																		
*02:47		74	75			78	80					83			87									
*02:49		74	75			78						83	85	87			90							
*02:55		74	75			78						83	85	87										
*03:02:01-03:02:09, 03:05, 03:17, 03:25, 03:27, 03:33, 03:35-03:36, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108, 03:121N, 03:135, 03:139, 03:146				75	76																		94	
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

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

Lot-specific information

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	
HLA-C allele <sup>4</sup>																									
*03:03:01-03:03:18, 03:11:01-03:12, 03:20N-03:22Q, 03:30-03:31, 03:43:01-03:43:02, 03:49-03:50, 03:52-03:53, 03:55-03:56, 03:59, 03:61-03:62, 03:66, 03:68-03:69, 03:75-03:76, 03:79, 03:83, 03:85, 03:88, 03:96, 03:102-03:103, 03:112, 03:116:01, 03:119-03:120, 03:122, 03:124, 03:126-03:127, 03:133, 03:141-03:142				76	77																93	94			
*03:04:01:01-03:04:06, 03:04:08-03:04:24, 03:06, 03:08-03:09, 03:14, 03:19, 03:23-03:24, 03:26, 03:28, 03:32, 03:34, 03:37-03:38:02, 03:40:01-03:40:02, 03:42, 03:44, 03:46-03:48, 03:51, 03:54, 03:57, 03:63-03:65, 03:70, 03:72-03:74, 03:77-03:78, 03:82, 03:87, 03:90-03:93, 03:98, 03:100-03:101, 03:104-03:107, 03:109, 03:111, 03:114-03:115, 03:117-03:118, 03:123, 03:125, 03:128-03:129, 03:131, 03:134, 03:136, 03:138, 03:143			75	76																	93	94			
*03:04:07, 03:41, 03:80, 03:113			75																		93	94			
*03:04:25, 03:145			75	76																	93				
*03:04:26, 03:18, 03:39, 03:137, 03:144				76																	93				
*03:07, 03:45			75	76						83					87						93	94			
*03:10, 03:29			75	76											87						93	94			
*03:13, 03:97, 03:132				76	77																	94			
*03:15			75	76						83					87							94			
*03:16, 03:110			75																			94			
*03:58					77										87					92	93	94			
*03:67				76	w																93	w			
*03:81				76	77												89				93	94			
*03:86					77										87					92		94			
*03:94				75											87					92		94			
*03:99															87					92					
*03:130, 03:140				75	76					83												93	94		
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

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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Lot-specific information

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
HLA-C allele <sup>4</sup>																								
*04:01:01:01-04:01:15, 04:01:17-04:01:22, 04:01:24-04:01:27, 04:01:29-04:01:37, 04:04:01-04:05, 04:07-04:09N, 04:12-04:13, 04:15:01-04:15:03, 04:17-04:20, 04:24-04:28, 04:30-04:31, 04:34-04:35, 04:38-04:41, 04:43-04:53, 04:56-04:57, 04:59Q-04:67, 04:69-04:71, 04:73-04:76, 04:78-04:79, 04:81-04:102, 04:104-04:106, 04:109-04:111						78					83		85					90			93			
*04:01:16, 04:23, 04:54, 04:72						78					83		85					90						
*04:01:23, 04:33						78					83		85								93			
*04:01:28											83		85					90			93			
*04:03, 04:06, 04:80			75			78					83		85		87			90			93			
*04:10						78					83							90			93			
*04:11						78										88					93			
*04:14, 04:68						78					83		85					90			93		95	
*04:16			75								83		85		87			90			93			
*04:29						78							85		88			90			93			
*04:32, 04:77		74				78					83		85					90			93	94		
*04:36, 04:55						78										88		90			93			
*04:37						78					83		85		87			90		92	93			
*04:42											83		85	86				90			93		95	
*04:58						78					83		85					90	91		93			
*04:103											83		85		87			90			93			
*04:107			75			78					83		85		87						93			
*04:108						78					83		85				89	90						
*04:112						78					83		85				89	90			93			
*05:01:01:01-05:01:18, 05:03, 05:05-05:15, 05:18:01-05:19, 05:21, 05:24, 05:27-05:35, 05:37-05:41, 05:44:01-05:45, 05:47-05:54, 05:56-05:57, 05:58:02-05:61, 05:63-05:67, 05:69-05:74							79				83				87						93			
*05:04, 05:22:01-05:22:02							79				83				87									
*05:16							79				83				87					92	93			
*05:17, 05:25, 05:55, 05:68							79				83				87			90			93			
*05:20, 05:43							79				83										93			
*05:23, 05:62							79				83				87				91		93			
*05:26						78	79				83				87						93			
*05:36							79				83				87		89				93			
*05:42							79				83		85		87			90			93			
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

101.702.24/06– including *Taq* pol., IFU-01  
101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

Lot-specific information

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
HLA-C allele <sup>4</sup>																								
*05:46							79				83		85		87						93			
*05:58:01			75				79				83				87						93			
*06:02:01:01-06:02:01:02, 06:02:03-06:02:11, 06:02:13- 06:02:15, 06:02:17-06:02:19, 06:07, 06:10, 06:12-06:13, 06:15- 06:16N, 06:18-06:30, 06:33- 06:34, 06:36-06:39, 06:41-06:51, 06:53-06:71, 06:73-06:75								80			83				86									95
*06:02:12, 06:11, 06:52								80							86									95
*06:02:16, 06:04, 06:40								80			83													95
*06:03:01			75					80			83				86	87							94	
*06:03:02, 06:76:01								80			83				86	87								
*06:05								80			83							90		92				95
*06:06								80			83									92				95
*06:08			74					80			83				86									95
*06:09								80			83				86							93		95
*06:14, 06:35, 06:72								80			83											93		95
*06:17											83				86					92				95
*06:31								80			83				86				90		92			95
*06:32											83				86									95
*07:01:01:01-07:02:07, 07:02:10- 07:02:28, 07:02:30-07:06, 07:08, 07:11-07:25, 07:27:01-07:27:02, 07:29-07:30, 07:32N, 07:35- 07:38:02, 07:42, 07:44-07:48, 07:50-07:63, 07:65-07:75, 07:77- 07:91, 07:93-07:95, 07:97- 07:100, 07:102-07:122, 07:124, 07:126-07:138, 07:140-07:147, 07:149-07:151, 07:153-07:155, 07:157-07:160, 07:162-07:172, 07:174-07:176, 07:178-07:183, 07:185-07:195, 07:197-07:209, 07:211-07:222, 07:224-07:235													81											95
*07:02:08, 07:02:29, 07:26, 07:33N, 07:39-07:40, 07:92, 07:139, 07:152N, 07:156											81													
*07:02:09							78				81				85				90					95
*07:07, 07:09, 07:49, 07:76											81		83								92			95
*07:10, 07:28, 07:41, 07:43, 07:184, 07:196											81											93		95
*07:31											81				86				90					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

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

Visit [www.olerup-ssp.com](http://www.olerup-ssp.com) for  
 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

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
HLA-C allele <sup>4</sup>																								
*07:64									81							88								
*07:96			75						81													94		
*07:101, 07:148, 07:161		74							81	82													95	
*07:123, 07:173									81								89						95	
*07:125						78			81				85	86									95	
*07:177									81					86			90							
*07:210									81		83									92				
*07:223									81															w
*08:01:01-08:01:05, 08:03:01-08:03:02, 08:06, 08:08, 08:14, 08:16:01-08:16:02, 08:20, 08:22, 08:24, 08:26N, 08:28, 08:36N, 08:38, 08:40-08:42, 08:44, 08:46, 08:50, 08:56-08:60												82						90			93			
*08:02:01-08:02:07, 08:04:01-08:04:02, 08:13, 08:15:01-08:15:02, 08:17-08:19, 08:23, 08:27, 08:29-08:30, 08:32-08:35, 08:37, 08:39, 08:43, 08:45, 08:49, 08:51-08:55N												82										93		
*08:05, 08:25									82				85									93		
*08:07, 08:47									82									91			93			
*08:09, 08:11									82									90						
*08:10							79		82	83					87			90			93			
*08:12									82											92	93			
*08:21									82				85					90			93			
*08:31		74							82													93		
*08:48									82															
*12:02:01-12:02:09, 12:10:01-12:10:02, 12:17-12:18:01, 12:20, 12:22, 12:27, 12:30, 12:36, 12:40, 12:56, 12:64, 12:67-12:69, 12:73-12:74													84	85										
*12:03:01:01-12:03:01:02, 12:03:03, 12:03:05-12:03:07, 12:03:10-12:03:12, 12:03:14-12:03:15, 12:03:17-12:03:19, 12:06-12:07, 12:11-12:13, 12:19, 12:23, 12:25, 12:29, 12:32, 12:34-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:50-12:53, 12:57, 12:61-12:63, 12:65-12:66, 12:70-12:71, 12:75-12:76													84	85	86									
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

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

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
HLA-C allele <sup>4</sup>																								
*12:03:02, 12:03:08, 12:03:16, 12:03:20, 12:26, 12:59													85	86										
*12:03:04												84	86											
*12:03:09								80				84	86											
*12:03:13												84	w	86										
*12:04:01, 12:33												83		86	87									
*12:04:02, 12:60												83	84	85	86	87								
*12:05												83	84	86	87									
*12:08												84	85				89							
*12:09												83			87					92				
*12:14:01													85				90	91						
*12:14:02												84	85				90	91						
*12:15								80				84	85	86			89							
*12:16												84	85										95	
*12:18:02, B*67:02 <sup>6</sup>													85											
*12:21												83	84		87									
*12:24												84	85						92					
*12:28, 12:58												84	85	86			90							
*12:31												84	85	86								93		
*12:41												83	84	85	87									
*12:44												84	85									93		
*12:49												84												
*12:54												83	84	85	86									
*12:55												84	85	86	88									
*12:72												84	85	87										
*14:02:01-14:02:07, 14:02:09- 14:03, 14:05, 14:07N, 14:11, 14:13-14:14, 14:18-14:24:01, 14:26-14:27, 14:29-14:37																	88			92				
*14:02:08												84				88			92					
*14:04												83				88			92					
*14:06, 14:08-14:09, 14:28, A*30:62 <sup>7</sup>																88								
*14:10																88	90	92						
*14:12												83							92					
*14:15														86	88	90								
*14:16														86	88									
*14:17															88		91	92						
*14:25			74													88			92			94		
*15:02:01-15:02:09, 15:08, 15:10:02, 15:13, 15:15, 15:17- 15:18, 15:26, 15:28, 15:31-15:35, 15:38-15:39, 15:41, 15:44-15:45, 15:47-15:53, 15:56-15:57, 15:60				75				80				83			87	89					93			
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

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

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
HLA-C allele <sup>4</sup>																								
*15:02:10			75					80			83				87		89				93	94		
*15:03, 15:16			75					80			83		85		87		89				93			
*15:04-15:06:03, 15:09, 15:19-15:20, 15:24, 15:27, 15:29-15:30, 15:40, 15:46, 15:54, 15:59			75								83				87		89				93			
*15:07			75					80									89				93			
*15:10:01								80			83				87		89				93			
*15:11			75			78		80			83				87		89				93			
*15:12					77			80			83				87		89	90			93			
*15:21			75					80							87		89				93			
*15:22, 15:55			75								83				87		89							
*15:23											83						89				93			
*15:25			75										85					90	91		93			
*15:36						78					83						89				93			
*15:37, 15:58			75					80			83				87		89							
*15:42		74	75					80			83				87		89				93			
*15:43			75					80									89				93	94		
*16:01:01-16:01:07, 16:06-16:08, 16:10-16:11, 16:13-16:15:01, 16:16Q-16:17, 16:21-16:24, 16:26-16:28, 16:30N-16:32, 16:36, 16:38-16:39, 16:41, 16:44													85					90					95	
*16:02:01-16:02:09, 16:09, 16:12, 16:19, 16:25											83		85		87		90						95	
*16:04:01, 16:33, 16:42														86			90	92						
*16:15:02												84	85				90						95	
*16:18, 16:37													85		87		90						95	
*16:20													85				89	90					95	
*16:29		74												86			90	92						
*16:34			75			78							85				90						95	
*16:35														86			90							
*16:40							79									88								
*16:43													85										95	
*16:45													85				90				93	95		
*17:01:01:01-17:01:03, 17:01:05-17:06, 17:08-17:11		74									83				87			91			93			
*17:01:04		74									83		85		87			91			93			
*17:07											83				87			91			93			
*18:01-18:02, 18:04-18:05											83									92	93		95	
*18:03		74									83									92	93	94	95	
A*24:96, A*24:106, A*24:174, B*08:16, B*46:25																								95
B*14:03																				92				
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

101.702.24/06– including *Taq* pol., IFU-01  
101.702.24u/06u – without *Taq* pol., IFU-02

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**Lot No.: 02R****Lot-specific information**

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

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

In addition, wells number 74, 75, 77, 78, 80 to 82, 84 to 86, 91 and 92 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

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

<sup>4</sup>The sequence of the Cw\*0101 allele has been shown to be identical to C\*01:02:01.

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

The sequence of the Cw\*020204 allele has been shown to be identical to C\*02:10.

The sequence of the Cw\*021603 allele has been shown to be identical to C\*02:16:02.

The sequence of the Cw\*0301 allele has been shown to be identical to C\*03:04:01:01.

The sequence of the Cw\*0402 allele has been shown to be identical to C\*04:01:01:01.

The sequence of the Cw\*0421 allele has been renamed to C\*04:15:02.

The sequence of the Cw\*0422 allele has been renamed to C\*04:21.

The sequence of the Cw\*0502 allele has been shown to be identical to C\*05:09.

The sequence of the Cw\*0601 allele has been shown to be identical to C\*06:02:01:01.

The sequence of the Cw\*060202 allele has been renamed to C\*06:17.

The sequence of the Cw\*0734 allele has been renamed to C\*07:27:02.

The sequence of the Cw\*1101 allele has been shown to be in error.

The sequence of the Cw\*1201 allele has been shown to be identical to C\*12:02:02.

The sequence of Cw\*1301 has been shown to be in error.

The sequence of the Cw\*1401 allele has been shown to be identical to C\*14:02:01.

The sequence of the Cw\*1501 allele has been shown to be identical to C\*15:02:01.

The sequence of the Cw\*1514 allele has been shown to be identical to C\*15:10:02.

The sequence of the Cw\*1603 allele has been shown to be identical to C\*14:03.

The sequence of the Cw\*16042 allele has been shown to be identical to C\*16:04:01.

The sequence of the Cw\*1605 allele has been shown to be identical to C\*16:04:01.

<sup>5</sup>Primer mix 74 will for most C\*02 alleles give rise to two specific PCR fragments.

Primer mix 76 will for most C\*03 alleles give rise to two specific PCR fragments.

Primer mix 81 will for most C\*07 alleles give rise to two specific PCR fragments.

Primer mix 82 will for most C\*08 alleles give rise to multiple specific PCR fragments.

Primer mix 89 will for most C\*15 alleles give rise to two specific PCR fragments.

<sup>6</sup>The C\*01:05, 01:22, 01:35 and 01:36 and the B\*54:18 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-B low primer set.

The C\*12:18:02 and the B\*67:02 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-B low primer set.

<sup>7</sup>The C\*14:06, 14:08-14:09 and 14:28 and the A\*30:62 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-A low primer set.

'w', might be weakly amplified.

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A low resolution primer set																				
				Lot No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					201193101	201201902	201193103	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		-	+	-	+	-	-	-	-	-	-	+	-	-	-	-	-



101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>												
<b>HLA-A low resolution primer set</b>												
				<b>Well</b>								
				<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	
				Lot No.:	201201917	201201918	201201919	201201920	201201921	201201922	201201923	201193124
	<b>IHWC cell line</b>	<b>A*</b>	<b>A*</b>									
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	-	-	-	-	-	-	-	-	-

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-B low resolution SSP kit</b>																			
			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	201204209	201204210	201204211	201204212	201204213	201204214	201204215	201204216
	<b>IHWC cell line</b>	<b>B*</b>																	
1	9001 SA	*07:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
3	9011 E4181324	*52:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01	-	-	-	-	-	-	-	+	-	-	-	+	-	+	-	-
5	9009 KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
6	9353 SM	*39:01	*51:01	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-
7	9020 QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
8	9025 DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
9	9026 YAR	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*44:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
13	9004 JESTHOM	*27:05		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
15	9075 DKB	*40:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
20	9059 SLE005	*40:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
22	9056 KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
27	9191 CH1007	*07:05	*51:01	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
32	9297 HAG	*41:02		-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
37	9065 HHKB	*07:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01		-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
39	9315 CML	*08:01	*27:05	-	+	-	-	+	-	-	+	-	-	-	-	-	-	-	+
40	9134 WHONP199	*13:02	*46:01	-	-	+	+	-	-	+	-	-	+	-	+	-	-	-	-
41	9055 H0301	*14:02		-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
43	9076 T7526	*46:01		-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
44	9057 TEM	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-



101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-B low resolution SSP kit</b>																			
			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	201204224	201204225	201204226	201204227	201204228	201204229	201204230	201204231	201204232
	<b>IHWC cell line</b>	<b>B*</b>																	
1	9001 SA	*07:02		-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
2	9280 LK707	*52:01	*73:01	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
3	9011 E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*37:01		+	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
6	9353 SM	*39:01	*51:01	-	-	-	-	+	-	+	+	-	-	-	-	-	+	-	-
7	9020 QBL	*18:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*35:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*38:01		-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+
11	9051 PITOUT	*44:03		+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
12	9052 DBB	*57:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+
14	9071 OLGA	*15:01	*15:20	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	+	-	-	+	+	-	-	-	+
18	9257 32367	*14:01	*56:01	-	-	-	-	-	-	+	+	-	-	-	+	-	-	-	+
19	9038 BM16	*18:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	+
24	9035 JBUSH	*38:01		-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	+	-	-	-	+	-	+	-	-
28	9320 BEL5GB	*44:02	*44:03	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
29	9050 MOU	*44:03		+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	+	-	-	+	+	-	-	-	-
31	9019 DUCAF	*18:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
36	9024 KT17	*15:01	*35:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
38	9099 LZL	*15:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	+	-	-	+	+	-	-	-	+
40	9134 WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	+	+	-	-	+	-
41	9055 H0301	*14:02		-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
43	9076 T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
44	9057 TEM	*38:01		-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	-	+	-	-	+	+	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
48	9303 TER-ND	*35:01	*44:03	+	+	-	-	-	-	-	-	-	-	-	-	+	-	-	-



101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-B low resolution SSP kit</b>																				
			Prod. No.:	Well																
				57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	
	IHWC cell line	B*		201204233	201204234	201204235	201204236	201204237	201204238	201204239	201204240	201204241	201204242	201204243	201204244	201204245	201204246	201204247	201204248	
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	-	-	-	-	-	+	-	-	-	-	-	+	-	+	+	-	-

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

Visit [www.olerup-ssp.com](http://www.olerup-ssp.com) for  
 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-C low resolution SSP primer set</b>																				
				Well																
				73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	
				Prod. No.:	201188801	201188802	201188803	201188804	201188805	201200306	201200307	201200308	201188809	201188810	201188811	201200312	201204313	201204314	201188815	201200316
IHCW cell line		C*																		
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
2	9280	LK707	*07:01	*15:05	-	-	+	-	-	-	-	-	+	-	+	-	-	-	+	-
3	9011	E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-
4	9275	GU373	*03:04	*04:01	-	-	+	+	-	+	-	-	-	-	+	-	+	-	-	-
5	9009	KAS011	*06:02		-	-	-	-	-	-	-	+	-	-	+	-	-	+	-	-
6	9353	SM	*03:04	*07:02	-	-	+	+	-	-	-	-	+	-	-	-	-	-	-	-
7	9020	QBL	*05:01		-	-	-	-	-	-	+	-	-	-	+	-	-	-	+	-
8	9007	DEM	*04:01		-	-	-	-	-	+	-	-	-	-	+	-	+	-	-	-
9	9026	YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-
10	9107	LKT3	*01:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
12	9052	DBB	*06:02		-	-	-	-	-	-	-	+	-	-	+	-	-	+	-	-
13	9004	JESTHOM	*01:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*01:02	*03:04	+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*03:04		-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*02:02		-	+	+	-	-	+	-	-	-	-	+	-	-	-	+	-
17	9282	CTM3953540	*03:03	*07:01	-	-	-	+	+	-	-	-	+	-	-	-	-	-	-	-
18	9257	32367	*01:02	*07:05	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
20	9059	SLE005	*03:04		-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*03:03		-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-
23	9124	IHL	*01:02	*15:02	+	-	+	-	-	-	-	+	-	-	+	-	-	-	+	-
24	9035	JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	+	+	+	-	-	-
25	9049	IBW9	*08:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
26	9285	WT49	*07:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:05	-	-	+	-	-	-	-	-	+	-	+	-	-	-	+	-
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	-	-	+	-	-	-	+	-	+	-	+	-
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
30	9021	RSH	*17:01		-	+	-	-	-	-	-	-	-	-	+	-	-	-	+	-
31	9019	DUCAF	*05:01		-	-	-	-	-	-	+	-	-	-	+	-	-	-	+	-
32	9297	HAG	*17:01	*17:03	-	+	-	-	-	-	-	-	-	-	+	-	-	-	+	-
33	9098	MT14B	*03:04		-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-
35	9302	SSTO	*05:01		-	-	-	-	-	-	+	-	-	-	+	-	-	-	+	-
36	9024	KT17	*03:03	*04:01	-	-	-	+	+	+	-	-	-	-	+	-	+	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
38	9099	LZL	*03:03		-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*02:02	*07:01	-	+	+	-	-	+	-	-	+	-	+	-	-	-	+	-
40	9134	WHONP199	*01:02	*06:02	+	-	-	-	-	-	-	+	-	-	+	-	-	+	-	-
41	9055	H0301	*08:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
42	9066	TAB089	*01:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*01:02	*08:01	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
44	9057	TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	+	+	-	-
45	9239	SHJO	*06:02	*17:01	-	+	-	-	-	-	-	+	-	-	+	-	-	+	+	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
47	9045	TUBO	*07:04	*15:02	-	-	+	-	-	-	-	+	-	-	+	-	-	-	+	-
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	-	+	-	-	-	-	+	-	+	-	-	-

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>													
<b>HLA-C low resolution SSP primer set</b>													
				<b>Well</b>									
				<b>89</b>	<b>90</b>	<b>91</b>	<b>92</b>	<b>93</b>	<b>94</b>	<b>95</b>			
				Prod. No.:	201200317	201188818	201188819	201188820	201188821	201188822	201204323		
	<b>IHWC cell line</b>	<b>C*</b>											
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	+
2	9280 LK707	*07:01	*15:05	+	-	-	-	+	-	-	-	-	+
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	+	-	-	+	+	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	+
6	9353 SM	*03:04	*07:02	-	-	-	-	+	+	+	-	-	-
7	9020 QBL	*05:01		-	-	-	-	+	-	-	-	-	-
8	9007 DEM	*04:01		-	+	-	-	+	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	+	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	+	-	-	-	-	-	-	-	+
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	+
13	9004 JESTHOM	*01:02		-	-	-	+	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	+	+	+	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	+	+	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	+	+	+	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	+	-	-	-	-	-	+
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	+
20	9059 SLE005	*03:04		-	-	-	-	+	+	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	+	+	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	+	-	-	+	+	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	+	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	+
27	9191 CH1007	*07:04	*15:05	+	-	-	-	+	-	-	-	-	+
28	9320 BEL5GB	*05:01	*16:01	-	+	-	-	+	-	-	-	-	+
29	9050 MOU	*16:01		-	+	-	-	-	-	-	-	-	+
30	9021 RSH	*17:01		-	-	+	-	+	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	+	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	+	-	+	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	+	+	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	+	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	+	-	-	+	+	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	+
38	9099 LZL	*03:03		-	-	-	-	+	+	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	+
40	9134 WHONP199	*01:02	*06:02	-	-	-	+	-	-	-	-	-	+
41	9055 H0301	*08:02		-	-	-	-	+	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	+	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	+	-	+	+	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	+	-	+	-	-	-	-	+
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	+
47	9045 TUBO	*07:04	*15:02	+	-	-	-	+	-	-	-	-	+
48	9303 TER-ND	*04:01	*16:01	-	+	-	-	+	-	-	-	-	+

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

## CERTIFICATE OF ANALYSIS

### Olerup SSP® HLA-A-B-C SSP Combi Tray

**Product number:** 101.702-24/06 – including *Taq* pol.  
 101.702-24u/06u – without *Taq* pol.

**Lot number:** 02R

**Expiry date:** 2015-February-01

**Number of tests:** 24 tests – Product No. 101.702-24/24u  
 6 tests – Product No. 101.702-06/06u

**Number of wells per test:** 95 + 1

#### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2011-931-01	9	2012-019-09	17	2012-019-17
2	2012-019-02	10	2012-041-10	18	2012-019-18
3	2011-931-03	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	2012-042-24	64	2012-042-40
33	2012-042-09	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

101.702.24/06– including *Taq* pol., IFU-01  
 101.702.24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **02R**

**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	2011-888-01	81	2011-888-09	89	2012-003-17
74	2011-888-02	82	2011-888-10	90	2011-888-18
75	2011-888-03	83	2011-888-11	91	2011-888-19
76	2011-888-04	84	2012-003-12	92	2011-888-20
77	2011-888-05	85	2012-043-13	93	2011-888-21
78	2012-003-06	86	2012-043-14	94	2011-888-22
79	2012-003-07	87	2011-888-15	95	2012-043-23
80	2011-888-08	88	2012-003-16		

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 74, 79, 84, 86 to 88 and 94 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. Additional 3'-primers in primer solution 82, 90 and 91 were tested by separately adding one additional 5'-primer. Additional 5'-primers in primer solutions 78, 85 and 95 were tested by separately adding one additional 3'-primer.

In primer solution 95 one 5'-primer was not possible to test, and in primer solutions 75, 83, 84, 86 and 90 one or two 3'-primers were not possible to test.

The negative control primer pairs, **Production No. 2011-917-01**, can detect contamination with PCR products diluted  $10^{-7}$ .

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

**Date of approval:** 2012-September-06

**Approved by:**

**Production Quality Control**

101.702.24/06– including *Taq* pol., IFU-01  
101.702.24u/06u – without *Taq* pol., IFU-02

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Lot No.: **02R**

Lot-specific information

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-A-B-C SSP Combi Tray  
**Product number:** 101.702-24/24u, -06/06u  
**Lot number:** 02R

**Intended use:** HLA-A, HLA-B and HLA-C 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.

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

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

Stockholm, Sweden  
2015-January-20

Daniel Malica  
Head of QA and Regulatory Affairs

101.702.24/06– including *Taq* pol., IFU-01  
101.702.24u/06u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **02R**

Lot-specific information

101.702.24/06– including *Taq* pol., IFU-01  
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Lot No.: **02R**

Lot-specific information

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