

## Olerup SSP<sup>®</sup> HLA-A\*02

Product number:	101.412-24/04 – including <i>Taq</i> pol.
Lot number:	37K
Expiry date:	2012-August-01
Number of tests:	24 tests – Product No. 101.412-24 4 tests – Product No. 101.412-04
Number of wells per test:	96
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. 37K.**

### CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup> HLA-A\*02 LOT

The HLA-A\*02 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP<sup>®</sup>* HLA-A\*02 lot was made (Lot No. 64G).

The amplification patterns for some rare HLA-A\*02 alleles only differ by the length of the specific PCR products.

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

Well	5'-primer	3'-primer	rationale
23	Added	-	Primer from well 94.
26	-	Added	Primer added for the A*02:198 allele.
60	-	Added	Increased yield of specific PCR product.
75	-	Added	Increased yield of specific PCR product.
82	Added	Added	Primer pair added for the A*02:199 allele.
94	Moved, added	Added	Primer moved to well 23, primer pair added for the A*02:197 allele.
96	Added	Added	Primer pair added for the A*02:196 allele.

Change in revision R01 compared to R00:

1. The A\*02:53N allele is amplified in primer mixes 70 and 79. This has been corrected in the specificity and interpretation tables.



## PRODUCT DESCRIPTION

### HLA-A\*02 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the the A\*02:01 to A\*02:199 alleles.

#### PLATE LAYOUT

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

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
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	96

The 96 well cut PCR plate is marked with 'HLA-A\*02' in silver/gray ink.

Well No. 1 is marked with the Lot No. '37K'.

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

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

#### INTERPRETATION

The interpretation of HLA-A\*02 SSP subtypings will be influenced by four A\*01, most A\*03, five A\*11, the A\*23, most A\*24, the A\*25:11, nine A\*26, three A\*29, several A\*30, the A\*31:29, the A\*32:08, seven A\*33, the A\*34:08, the A\*66:09, the A\*68, the A\*69:01, three A\*74 and the A\*80:01 alleles when present on the other haplotype. In addition, the B\*15:67 allele will be amplified by primer mix 88 and the B\*15:173 allele will be amplified by primer mix 93.

### UNIQUELY IDENTIFIED ALLELES

All the HLA-A\*02 alleles, i.e. **A\*02:01 to A\*02:199 alleles**, recognized by the HLA Nomenclature Committee in April 2010<sup>1</sup> will give rise to unique amplification patterns by the primers in the HLA-A\*02 subtyping kit.

The HLA-A\*02 subtyping kit cannot distinguish the A\*02:01:01:01, 02:01:01:03-02:01:02, 02:01:04-02:01:15, 02:01:18-02:01:19 and 02:01:21-02:01:45 alleles, the A\*02:05:01-02:05:03 alleles, the A\*02:06:01-02:06:09 alleles, the A\*02:17:01-02:17:02 alleles, the 02:20:01-02:20:02 alleles, the A\*02:22:01-02:22:02 alleles, the A\*02:74:01-02:74:02 alleles, the A\*02:97:01-02:97:02 alleles and the A\*02:171:01-02:171:02 alleles.

The A\*02:150 and 02:197 alleles may can be distinguished by the different sizes of the specific PCR products generated by primer mix 94.

The A\*02:153 and 02:196 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 96.

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

## SPECIFICITY TABLE

### HLA-A\*02 SSP subtyping

Specificities and sizes of the PCR products of the 96 primer mixes used for HLA-A\*02 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-A*02 alleles <sup>3</sup>	Other amplified HLA-A alleles <sup>4</sup>
1 <sup>8</sup>	360 bp	800 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:06:09, 02:08-02:09, 02:12- 02:14, 02:16, 02:19-02:22:02, 02:24-02:32N, 02:34, 02:36- 02:38, 02:40-02:46, 02:49- 02:68, 02:70-02:77, 02:79- 02:80, 02:82N-02:86, 02:88N- 02:89, 02:91-02:97:02, 02:99, 02:101-02:102, 02:104-02:107, 02:109, 02:111, 02:113N- 02:123, 02:125N-02:127, 02:131-02:135, 02:137-02:145, 02:147, 02:149-02:157, 02:159-02:190, 02:192-02:199	*03:09, 11:06, 11:18, 25:11, 26:03:01- 26:03:02, 26:06, 26:21, 26:30, 26:36, 29:19, 30:13, 30:16, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06, 80:01 <sup>w</sup>
2	230 bp	1070 bp	*02:01:01:01-02:01:02, 02:01:04-02:01:15, 02:01:17- 02:01:19, 02:01:21-02:04, 02:07, 02:09, 02:12-02:13, 02:15N-02:20:02, 02:22:01- 02:22:02, 02:24-02:27, 02:29- 02:34, 02:36-02:40, 02:42- 02:43N, 02:45-02:47, 02:49- 02:50, 02:52-02:53N, 02:55- 02:56:02, 02:58-02:60, 02:62- 02:68, 02:70-02:71, 02:73- 02:77, 02:80, 02:82N-02:83N, 02:85-02:86, 02:88N-02:89, 02:92-02:97:02, 02:101- 02:105, 02:107, 02:109- 02:111, 02:113N-02:121, 02:123, 02:125N, 02:130- 02:135, 02:138-02:141, 02:145, 02:147-02:153, 02:155-02:168, 02:171:01- 02:171:02, 02:173-02:177, 02:181-02:199	*03:09, 74:06

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<b>3<sup>6</sup></b>	175 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:03:02, 02:05:01-02:16, 02:18, 02:20:01-02:22:02, 02:24-02:38, 02:40-02:43N, 02:45-02:56:02, 02:58-02:64, 02:66-02:78, 02:80-02:85, 02:87-02:97:02, 02:99, 02:101- 02:107, 02:109, 02:111- 02:134, 02:136-02:148, 02:150-02:151, 02:153-02:155, 02:157-02:189, 02:191-02:193, 02:195-02:199	*68:02:01:01-68:02:04, 68:15, 68:18N, 68:23, 68:27-68:28, 68:31, 68:34, 68:40, 68:48, 69:01
<b>4<sup>5</sup></b>	80 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:18-02:01:19, 02:01:21- 02:01:45, 02:03:01-02:04, 02:06:01-02:07, 02:09-02:13, 02:15N-02:22:02, 02:24- 02:35:01, 02:35:03-02:44, 02:45 <sup>w</sup> , 02:46, 02:49, 02:51- 02:54, 02:56:01 <sup>w</sup> , 02:57-02:62, 02:64-02:77, 02:78 <sup>w</sup> , 02:79- 02:97:02, 02:99, 02:101- 02:102, 02:104-02:114, 02:116-02:121, 02:123-02:128, 02:130-02:143, 02:145-02:153, 02:156-02:168, 02:170- 02:171:02, 02:173-02:175, 02:177-02:178, 02:180-02:184, 02:187-02:194, 02:196-02:199	*03:01:03 <sup>w</sup> , 03:23, 26:07:02, 33:01:02, 33:08-33:09, 68:30, 74:04
<b>5<sup>5</sup></b>	125 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:01:45, 02:04, 02:06:01- 02:07, 02:09-02:11, 02:14- 02:18, 02:20:01-02:21, 02:25- 02:26, 02:28-02:36, 02:39- 02:43N, 02:45-02:46, 02:48, 02:51-02:53N, 02:55-02:62, 02:64, 02:66-02:67, 02:68 <sup>w</sup> , 02:69-02:97:02, 02:99, 02:101, 02:103, 02:105-02:114, 02:116, 02:118-02:121, 02:123-02:134, 02:138-02:141, 02:143-02:147, 02:149-02:151, 02:153, 02:156-02:171:02, 02:173-02:178, 02:180-02:181, 02:183-02:185, 02:187-02:190, 02:192-02:199	*03:17, 23:01:01- 23:01:02, 23:04-23:25, 24:13:01-24:13:02, 24:18, 24:24, 24:94, 68:08:01-68:08:02, 69:01

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<b>6<sup>5,6</sup></b>	75 bp	<b>800 bp</b>	*02:02-02:03:02, 02:05:01-02:05:03, 02:08, 02:22:01-02:22:02, 02:47, 02:49-02:50, 02:63, 02:102, 02:104, 02:115, 02:117, 02:122, 02:136, 02:148, 02:154-02:155, 02:172, 02:179, 02:186, 02:191	*68:01:01-68:07, 68:10-68:25, 68:27-68:47, 68:49N
<b>7<sup>7</sup></b>	175 bp	1070 bp	*02:02, 02:05:01-02:05:03, 02:08, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186	
<b>8<sup>9</sup></b>	415 bp, 505 bp	1070 bp	*02:02, 02:05:01-02:05:03, 02:14, 02:32N, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186	
<b>9<sup>5</sup></b>	105 bp	1070 bp	*02:03:01, 02:03:02 <sup>W</sup> , 02:25, 02:38, 02:117, 02:148, 02:171:01-02:171:02	*24:99, 26:10
<b>10<sup>5</sup></b>	115 bp	<b>800 bp</b>	*02:03:01, 02:03:02 <sup>W</sup> , 02:13, 02:26, 02:38, 02:99, 02:117, 02:148, 02:171:01-02:171:02	*03:17, 24:18, 24:56, 26:10, 68:42
<b>11<sup>8,10</sup></b>	225 bp, 350 bp	1070 bp	*02:04, 02:17:01-02:17:02, 02:57, 02:65, 02:89, 02:108, 02:110, 02:152	*23:12, 24:28, 24:30, 24:42, 24:89, 29:19, 32:08, 33:24, 68:05, 68:20, 74:06
<b>12<sup>11</sup></b>	195 bp, 235 bp	1070 bp	*02:05:01-02:06:09, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79, 02:84-02:85, 02:91, 02:99, 02:106, 02:108, 02:122, 02:126-02:127, 02:137, 02:142-02:144, 02:154, 02:169-02:170, 02:172, 02:178-02:180	*11:06, 11:18, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 68:05, 68:15, 68:20
<b>13<sup>5,8</sup></b>	145 bp	<b>800 bp</b>	*02:05:01-02:05:03, 02:08, 02:14, 02:84, 02:154, 02:172, 02:179	
<b>14<sup>5,8,12</sup></b>	95 bp, 170 bp	<b>800 bp</b>	*02:07, 02:15N, 02:18, 02:91, 02:103, 02:112, 02:130, 02:191	
<b>15<sup>5,8,13</sup></b>	125 bp, 265 bp, 305 bp	<b>800 bp</b>	*02:21, 02:87, 02:96, 02:112, 02:129, 02:136, 02:186	

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<b>16</b> <sup>5,14</sup>	110 bp, 155 bp	<b>800 bp</b>	*02:09, 02:49-02:50, 02:73, 02:93, 02:122, 02:156, 02:172	*24:15, 24:41, 24:51, 24:92, 26:10, 68:02:01:01-68:02:04, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N
<b>17</b> <sup>15</sup>	205 bp, 360 bp	1070 bp	*02:10, 02:17:01-02:17:02, 02:39, 02:83N, 02:108, 02:110, 02:148	*23:12, 24:28, 24:30, 24:42, 24:89
<b>18</b> <sup>7</sup>	175 bp	1070 bp	*02:11, 02:29, 02:69, 02:128	
<b>19</b> <sup>5</sup>	125 bp	1070 bp	*02:12-02:13, 02:19, 02:27, 02:37-02:38, 02:44, 02:54, 02:142	*24:02:01:01-24:02:15, 24:02:17-24:05, 24:07- 24:11N, 24:14-24:15, 24:17, 24:19-24:20, 24:23, 24:25-24:53, 24:55-24:64, 24:66- 24:86N, 24:88-24:90N, 24:92-24:93, 24:95- 24:99, 33:19, 68:09, 68:26
<b>20</b>	295 bp	1070 bp	*02:49	
<b>21</b> <sup>8</sup>	220 bp	1070 bp	*02:15N	
<b>22</b>	160 bp	1070 bp	*02:19, 02:36-02:37, 02:54	*23:01:01-23:02, 23:05-23:25, 24:02:01:01-24:02:31, 24:04-24:09N, 24:11N, 24:13:01-24:15, 24:17, 24:19-24:20, 24:23 <sup>W</sup> , 24:24-24:32, 24:34- 24:64, 24:66-24:74, 24:76-24:93, 24:95- 24:99, 33:19, 68:26
<b>23</b> <sup>5,16</sup>	135 bp, 180 bp	<b>800 bp</b>	*02:17:01-02:17:02, 02:31, 02:108, 02:110, 02:161	*24:94
<b>24</b> <sup>5</sup>	115 bp	1070 bp	*02:27	*24:59
<b>25</b> <sup>5</sup>	145 bp	1070 bp	*02:16, 02:131	*24:55
<b>26</b> <sup>5,7,17</sup>	125 bp, 165 bp, 260 bp	<b>800 bp</b>	*02:33, 02:52, 02:198	
<b>27</b> <sup>5,18</sup>	95 bp, 145 bp	1070 bp	*02:10, 02:28, 02:50, 02:52, 02:73, 02:93, 02:95, 02:110, 02:114, 02:117, 02:122, 02:155-02:156, 02:185	*11:16, 11:35, 11:57, 30:13, 30:16, 68:01:01-68:11N, 68:13-68:48
<b>28</b>	235 bp	<b>800 bp</b>	*02:08, 02:20:01-02:20:02,	



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			02:55-02:56:02, 02:62, 02:78, 02:103, 02:128, 02:169, 02:195	
<b>29<sup>19</sup></b>	220 bp, 300 bp	1070 bp	*02:45-02:46, 02:48, 02:56:01 <sup>w</sup> -02:56:02 <sup>w</sup> , 02:78 <sup>w</sup> , 02:92, 02:103 <sup>w</sup> , 02:129, 02:169 <sup>w</sup> , 02:180, 02:195 <sup>w</sup>	
<b>30<sup>5,20</sup></b>	130 bp, 160 bp	<b>800 bp</b>	*02:43N, 02:104, 02:163	
<b>31<sup>5,6,21</sup></b>	95 bp, 220 bp	<b>800 bp</b>	*02:45, 02:56:01-02:56:02, 02:78, 02:82N, 02:103, 02:169, 02:195	*23:08N
<b>32<sup>22</sup></b>	205 bp, 230 bp, 255 bp	1070 bp	*02:46-02:48, 02:70, 02:129, 02:176	
<b>33<sup>7,23</sup></b>	230 bp, 325 bp	1070 bp	*02:19, 02:36-02:37, 02:54, 02:165, 02:168	
<b>34<sup>5,6,24</sup></b>	120 bp, 180 bp	<b>800 bp</b>	*02:34-02:35:02, 02:56:01- 02:56:02, 02:62, 02:78, 02:88N, 02:103	*30:01:01-30:01:03, 30:08, 30:11:01- 30:11:02, 30:14L- 30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:37
<b>35<sup>5,25</sup></b>	110 bp, 155 bp	1070 bp	*02:40, 02:51, 02:77, 02:130	*23:01:01-23:01:02, 23:02 <sup>w</sup> , 23:04-23:13, 23:14 <sup>w</sup> , 23:15-23:23, 23:25, 24:24
<b>36<sup>5,26</sup></b>	85 bp, 445 bp	1070 bp	*02:24, 02:65, 02:94N, 02:135, 02:137, 02:152	*03:09, 11:06, 11:18, 25:11, 26:03:01- 26:03:02, 26:06, 26:21, 26:30, 26:36, 29:19, 30:13, 30:16, 32:08, 33:24, 74:06, 80:01 <sup>w</sup>
<b>37<sup>5</sup></b>	140 bp	1070 bp	*02:38, 02:68, 02:101, 02:154	*23:10 <sup>w</sup> , 24:10, 24:46 <sup>w</sup> , 24:91, 26:10
<b>38<sup>5</sup></b>	125 bp	<b>800 bp</b>	*02:41, 02:80, 02:117	
<b>39<sup>5,27</sup></b>	75 bp, 165 bp, 200 bp	1070 bp	*02:18, 02:159, 02:170	
<b>40<sup>5,28</sup></b>	90 bp, 210 bp	1070 bp	*02:40, 02:51, 02:67, 02:130	*29:22, 33:22
<b>41</b>	185 bp	1070 bp	*02:02, 02:05:01-02:05:03, 02:08, 02:14, 02:17:01- 02:17:02, 02:47, 02:57-02:58, 02:63, 02:75, 02:102, 02:108, 02:110, 02:115,	*24:94

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			02:154-02:155, 02:172, 02:179, 02:186	
<b>42<sup>7</sup></b>	225 bp	<b>800 bp</b>	*02:34-02:35:03, 02:56:01- 02:56:02, 02:62, 02:103	*01:13, 01:17, 03:01:01:01-03:07, 03:09-03:11N, 03:13- 03:31, 03:33-03:35, 03:37-03:40, 03:42- 03:58, 03:60-03:71, 03:73-03:76, 34:08, 74:13
<b>43<sup>29</sup></b>	180 bp, 225 bp	<b>800 bp</b>	*02:03:01-02:03:02, 02:22:01- 02:22:02, 02:49, 02:71, 02:104, 02:117, 02:136, 02:148, 02:191	*26:22, 66:09
<b>44</b>	155 bp	<b>800 bp</b>	*02:59	
<b>45<sup>5,30</sup></b>	105 bp, 185 bp	1070 bp	*02:19, 02:39, 02:44, 02:60, 02:79, 02:86	*01:20, 24:14, 24:93
<b>46<sup>5,7,31</sup></b>	70 bp , 150 bp, 205 bp	1070 bp	*02:61, 02:66, 02:181	
<b>47</b>	165 bp	<b>800 bp</b>	*02:63	
<b>48<sup>5</sup></b>	110 bp	1070 bp	*02:64, 02:177-02:178	
<b>49<sup>5</sup></b>	145 bp	1070 bp	*02:38, 02:101, 02:154	*23:10 <sup>w</sup> , 24:10, 24:46 <sup>w</sup> , 26:10
<b>50<sup>5</sup></b>	145 bp	<b>800 bp</b>	*02:01:01:02L	
<b>51</b>	410 bp	1070 bp	*02:65, 02:80, 02:114, 02:117, 02:152	*03:09, 11:06, 11:18, 29:19, 32:08, 33:24, 68:05, 68:20, 74:06, 80:01 <sup>w</sup>
<b>52</b>	185 bp	<b>800 bp</b>	*02:76	*30:22
<b>53</b>	225 bp	1070 bp	*02:14, 02:17:01-02:17:02, 02:57-02:58, 02:108, 02:110	*03:75, 23:01:01- 23:01:02, 23:03:01- 23:13, 23:15-23:25, 24:13:01, 24:18, 24:24, 24:94, 29:07, 31:29
<b>54<sup>32</sup></b>	240 bp, 350 bp	<b>800 bp</b>	*02:74:01-02:74:02, 02:189- 02:190	
<b>55</b>	200 bp	1070 bp	*02:30	
<b>56<sup>33</sup></b>	150 bp, 275 bp	1070 bp	*02:53N, 02:81, 02:124, 02:175, 02:181	
<b>57<sup>5,7,34</sup></b>	105 bp, 145 bp	1070 bp	*02:42, 02:160, 02:175	
<b>58</b>	255 bp	<b>800 bp</b>	*02:11, 02:35:01-02:35:03, 02:48, 02:69, 02:78, 02:90, 02:128	

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<b>59</b> <sup>5</sup>	145 bp	<b>800 bp</b>	*02:97:01-02:97:02	
<b>60</b> <sup>8</sup>	345 bp	1070 bp	*02:50, 02:65, 02:73, 02:122, 02:135, 02:152	*25:11, 26:03:01- 26:03:02, 26:06, 26:21, 26:30, 26:36, 29:19, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06
<b>61</b> <sup>7</sup>	185 bp	1070 bp	*02:50, 02:73, 02:122, 02:156	*11:16, 11:35, 11:57, 68:01:01-68:11N, 68:13-68:43, 68:45- 68:48
<b>62</b>	180 bp	<b>800 bp</b>	*02:69, 02:179	*68:01:01-68:32, 68:34-68:49N
<b>63</b>	160 bp	<b>800 bp</b>	*02:105	
<b>64</b> <sup>5,35</sup>	125 bp, 175 bp, 260 bp	1070 bp	*02:106, 02:145, 02:164, 02:187	*01:44, 03:44, 24:72
<b>65</b> <sup>5,36</sup>	145 bp, 185 bp	1070 bp	*02:107, 02:160	
<b>66</b>	170 bp	<b>800 bp</b>	*02:109	
<b>67</b> <sup>5,37</sup>	105 bp, 130 bp	<b>800 bp</b>	*02:111, 02:177	
<b>68</b> <sup>38</sup>	215 bp, 260 bp	1070 bp	*02:113N, 02:184	
<b>69</b> <sup>39</sup>	170 bp, 335 bp	1070 bp	*02:114, 02:166	
<b>70</b> <sup>5,40</sup>	125 bp, 280 bp	<b>800 bp</b>	*02:53N, 02:115, 02:192	
<b>71</b> <sup>8</sup>	260 bp	<b>800 bp</b>	*02:116	
<b>72</b> <sup>5,41</sup>	110 bp, 230 bp, 260 bp	1070 bp	*02:19, 02:44, 02:118, 02:135, 02:149, 02:152, 02:183, 02:189-02:190	
<b>73</b> <sup>42</sup>	200 bp, 250 bp	1070 bp	*02:119, 02:158	
<b>74</b> <sup>43</sup>	175 bp, 260 bp	<b>800 bp</b>	*02:120, 02:187	
<b>75</b> <sup>6, 44</sup>	165 bp, 205 bp	1070 bp	*02:121, 02:166	*68:14
<b>76</b>	230 bp	<b>800 bp</b>	*02:50, 02:122, 02:143	
<b>77</b> <sup>5,45</sup>	85 bp, 110 bp	<b>800 bp</b>	*02:123, 02:162	
<b>78</b> <sup>5,46</sup>	75 bp, 240 bp	1070 bp	*02:124, 02:193	
<b>79</b> <sup>8,47</sup>	225 bp, 270 bp	1070 bp	*02:53N, 02:125N, 02:184, 02:192	

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<b>80</b> <sup>5,48</sup>	135 bp, 230 bp	1070 bp	*02:126, 02:194	
<b>81</b> <sup>5,49</sup>	110 bp, 235 bp, 315 bp	1070 bp	*02:127, 02:165, 02:167, 02:183	
<b>82</b> <sup>5,50</sup>	130 bp, 295 bp	1070 bp	*02:131, 02:199	
<b>83</b> <sup>5</sup>	100 bp	<b>800 bp</b>	*02:132	
<b>84</b> <sup>7</sup>	180 bp	<b>800 bp</b>	*02:133, 02:164	*01:44, 03:44
<b>85</b>	260 bp	<b>800 bp</b>	*02:134	
<b>86</b> <sup>51</sup>	180 bp, 255 bp	<b>800 bp</b>	*02:135, 02:174	
<b>87</b>	155 bp	1070 bp	*02:138	
<b>88</b> <sup>5,52</sup>	130 bp, 240 bp	<b>800 bp</b>	*02:139, 02:188	<b>B*15:67</b>
<b>89</b> <sup>5,53</sup>	115 bp, 295 bp	<b>800 bp</b>	*02:140, 02:182	*33:15
<b>90</b> <sup>5,54</sup>	100 bp, 130 bp, 190 bp	<b>800 bp</b>	*02:72, 02:141, 02:161	
<b>91</b> <sup>5</sup>	110 bp	<b>800 bp</b>	*02:50, 02:73, 02:93, 02:122, 02:156, 02:162, 02:172	*24:15, 24:41, 24:51, 24:92, 26:10, 68:02:01:01-68:02:04, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N
<b>92</b> <sup>55</sup>	180 bp, 260 bp	1070 bp	*02:146, 02:173	
<b>93</b> <sup>5,8,56</sup>	130 bp, 250 bp, 295 bp	<b>800 bp</b>	*02:147, 02:157, 02:163	*24:73, <b>B*15:173</b>
<b>94</b> <sup>7,57</sup>	210 bp, 360 bp	<b>800 bp</b>	*02:150, 02:197	
<b>95</b> <sup>5</sup>	135 bp	<b>800 bp</b>	*02:52, 02:105, 02:147, 02:151, 02:188	*68:06
<b>96</b> <sup>58</sup>	135 bp, 250 bp	1070 bp	*02:153, 02:196	

<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\*02 SSP typings.

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

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

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

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

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

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-A\*02 subtyping.

In addition, wells number 6, 10, 13-16, 23, 26, 28, 30, 31, 34, 38, 42-44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 74, 76, 77, 83-86, 88- 91 and 93-95 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

<sup>3</sup>For several HLA-A alleles 1<sup>st</sup> and 4<sup>th</sup> exon nucleotide sequences are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in the 1<sup>st</sup> and 4<sup>th</sup> exons are conserved within allelic groups.

The A\*02:150 and 02:197 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 94.

The A\*02:153 and 02:196 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 96.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A\*02 alleles will be amplified by primer mixes 1 to 6, 9 to 12, 16, 17, 19, 22 to 25, 27, 31, 34 to 37, 40 to 43, 45, 49, 51 to 53, 60 to 62, 64, 75, 84, 89, 91, 93 and 95. In addition, the B\*15:67 allele will be amplified by primer mix 88 and the B\*15:173 allele will be amplified by primer mix 93.

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

<sup>6</sup>The specific primers in primer mixes 3, 6, 31, 34 and 75 may yield less specific PCR products than the other HLA-A\*02 primer mixes.

<sup>7</sup>Primer mixes 7, 18, 26, 33, 42, 46, 57, 61, 84 and 94 have a tendency of giving rise to a primer oligomer artefact, most pronounced in primer mix 46.

<sup>8</sup>Primer mixes 1, 11, 13, 14, 15, 21, 60, 71, 79 and 93 have a tendency of giving rise to nonspecific amplification.

<sup>9</sup>Primer mix 8: Specific PCR fragment of 415 bp in the A\*02:02, 02:05:01-02:05:03, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179 and 02:186 alleles. Specific PCR fragment of 505 bp in the A\*02:32N allele.

<sup>10</sup>Primer mix 11: Specific PCR fragment of 225 bp in the A\*02:89 allele. Specific PCR fragment of 350 bp in the A\*02:04, 02:17:01-02:17:02, 02:57, 02:65, 02:89, 02:108, 02:110 and 02:152 and the A\*23:12, 24:28, 24:30, 24:42, 24:89, 29:19, 32:08, 33:24, 68:05, 68:20 and 74:06 alleles.

Primer mix 11 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretation of HLA-A\*02 typings.

<sup>11</sup>Primer mix 12: Specific PCR fragment of 195 bp in A\*02:85 allele. Specific PCR fragment of 235 bp in the A\*02:05:01-02:06:09, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79, 02:84, 02:91, 02:99, 02:106, 02:108, 02:122, 02:126-02:127, 02:137, 02:142-02:144, 02:154, 02:169-02:170, 02:172 and 02:178-02:180 and the A\*11:06, 11:18, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 68:05, 68:15, 68:20 alleles.

<sup>12</sup>Primer mix 14: Specific PCR fragment of 95 bp in A\*02:91 allele. Specific PCR fragment of 170 bp in the A\*02:07, 02:15N, 02:18, 02:103, 02:112, 02:130 and 02:191 alleles.

<sup>13</sup>Primer mix 15: Specific PCR fragment of 125 bp in the A\*02:21 and 02:186 alleles. Specific PCR fragment of 265 bp in the A\*02:87, 02:112, 02:129 and 02:136 alleles. Specific PCR fragment of 305 bp in the A\*02:96 allele.

<sup>14</sup>Primer mix 16: Specific PCR fragment of 110 bp in the A\*02:50, 02:73, 02:93, 02:122, 02:156 and 02:172 and the A\*24:15, 24:41, 24:51, 24:92, 26:10, 68:02:01:01-68:02:04, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44 and 68:48-68:49N alleles. Specific PCR fragment of 155 bp in the A\*02:09 and 02:49 alleles.

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<sup>15</sup>Primer mix 17: Specific PCR fragment of 205 bp in the A\*02:83N allele. Specific PCR fragment of 360 bp in the A\*02:10, 02:17:01-02:17:02, 02:39, 02:108, 02:110 and 02:148 and the A\*23:12, 24:28, 24:30, 24:42 and 24:89 alleles.

<sup>16</sup>Primer mix 23: Specific PCR fragment of 135 bp in the A\*02:31 and 02:161 alleles. Specific PCR fragment of 180 bp in the A\*02:17:01-02:17:02, 02:108 and 02:110 and the A\*24:94 alleles.

<sup>17</sup>Primer mix 26: Specific PCR fragment of 125 bp in the A\*02:33 allele. Specific PCR fragment of 165 bp in the A\*02:52 allele. Specific PCR fragment of 260 bp in the A\*02:198 allele.

<sup>18</sup>Primer mix 27: Specific PCR fragment of 95 bp in the A\*02:28, 02:155 and 02:185 and the A\*30:13 and 30:16 alleles.

Specific PCR fragments of 145 bp in A\*02:10, 02:50, 02:52, 02:73, 02:93, 02:95, 02:110, 02:114, 02:117, 02:122, 02:156, 11:16, 11:35, 11:57, 68:01:01-68:11N, 68:13-68:48 alleles.

<sup>19</sup>Primer mix 29: Specific PCR fragment of 220 bp in the A\*02:45-02:46, 02:48, 02:56:01<sup>w</sup>-02:56:02<sup>w</sup>, 02:78<sup>w</sup>, 02:92, 02:103<sup>w</sup>, 02:129, 02:169<sup>w</sup> and 02:195<sup>w</sup> alleles. Specific PCR fragment of 300 bp in A\*02:180 allele.

<sup>20</sup>Primer mix 30: Specific PCR fragment of 130 bp in the A\*02:163 allele. Specific PCR fragment of 160 bp in A\*02:43N and 02:104 alleles.

<sup>21</sup>Primer mix 31: Specific PCR fragment of 95 bp in A\*02:82N and in the A\*23:08N alleles. Specific PCR fragments of 220 bp in A\*02:45, 02:56:01-02:56:02, 02:78, 02:103, 02:169 and 02:195 alleles.

<sup>22</sup>Primer mix 32: Specific PCR fragment of 205 bp in the A\*02:176 allele. Specific PCR fragment of 230 bp in the A\*02:46, 02:48, 02:70 and 02:129 alleles. Specific PCR fragment of 255 bp in the A\*02:47 allele.

<sup>23</sup>Primer mix 33: Specific PCR fragment of 230 bp in A\*02:165 and 02:168 alleles. Specific PCR fragments of 325 bp in A\*02:19, 02:36-02:37 and 02:54 alleles.

<sup>24</sup>Primer mix 34: Specific PCR fragment of 120 bp in the A\*02:88N allele. Specific PCR fragment of 180 bp in the A\*02:34-02:35:02, 02:56:01-02:56:02, 02:62, 02:78, 02:103 and in the A\*30:01:01-30:01:03, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:24, 30:26, 30:30-30:31 and 30:35-30:37 alleles.

Primer mix 34 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretation of HLA-A\*02 typings.

<sup>25</sup>Primer mix 35: Specific PCR fragment of 110 bp in A\*02:40, 02:51, 02:130 and in the A\*23:01:01-23:01:02, 23:02<sup>w</sup>, 23:04-23:13, 23:14<sup>w</sup>, 23:15-23:23, 23:25 and 24:24 alleles. Specific PCR fragment of 155 bp in A\*02:77 allele.

<sup>26</sup>Primer mix 36: Specific PCR fragment of 85 bp in A\*02:94N allele. Specific PCR fragments of 445 bp in the A\*02:24, 02:65, 02:135, 02:137 and 02:152 and in the A\*03:09, 11:06, 11:18, 25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 29:19, 30:13, 30:16, 32:08, 33:24, 74:06 and 80:01<sup>w</sup> alleles.

<sup>27</sup>Primer mix 39: Specific PCR fragment of 75 bp in the A\*02:18 allele. Specific PCR fragment of 165 bp in the A\*02:159 allele. Specific PCR fragment of 200 bp in the A\*02:170 allele.

<sup>28</sup>Primer mix 40: Specific PCR fragment of 90 bp in the A\*02:67 allele. Specific PCR fragment of 210 bp in the A\*02:40, 02:51 and 02:130 and in the A\*29:22 and 33:22 alleles.

<sup>29</sup>Primer mix 43: Specific PCR fragment of 180 bp in the A\*02:71 allele. Specific PCR fragment of 225 bp in the A\*02:03:01-02:03:02, 02:22:01-02:22:02, 02:49, 02:104, 02:117, 02:136, 02:148 and 02:191 and in the A\*26:22 and 66:09 alleles.

<sup>30</sup>Primer mix 45: Specific PCR fragment of 105 bp in the A\*02:60 allele. Specific PCR fragment of 185 bp in the A\*02:19, 02:39, 02:44, 02:79 and 02:86 and in the A\*01:20, 24:14 and 24:93 alleles.

<sup>31</sup>Primer mix 46: Specific PCR fragment of 70 bp in the A\*02:66 allele. Specific PCR fragment of 150 bp in the A\*02:181 allele. Specific PCR fragment of 205 bp in the A\*02:61 allele.

<sup>32</sup>Primer mix 54: Specific PCR fragment of 240 bp in the A\*02:189-02:190 alleles. Specific PCR fragment of 350 bp in A\*02:74:01- 02:74:02 alleles.

<sup>33</sup>Primer mix 56: Specific PCR fragment of 150 bp in the A\*02:175 and 02:181 alleles. Specific PCR fragment of 275 bp in A\*02:53N, 02:81 and 02:124 alleles.

<sup>34</sup>Primer mix 57: Specific PCR fragment of 105 bp in the A\*02:42 allele. Specific PCR fragment of 145 bp in A\*02:160 and 02:175 alleles.

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<sup>35</sup>Primer mix 64: Specific PCR fragment of 125 bp in the A\*02:106 and 02:145 and in the A\*24:72 alleles. Specific PCR fragment of 175 bp in A\*02:164 and in the A\*01:44 and 03:44 alleles. Specific PCR fragment of 260 bp in A\*02:187 allele.

<sup>36</sup>Primer mix 65: Specific PCR fragment of 145 bp in the A\*02:160 allele. Specific PCR fragment of 185 bp in A\*02:107 allele.

<sup>37</sup>Primer mix 67: Specific PCR fragment of 105 bp in the A\*02:177 allele. Specific PCR fragment of 130 bp in A\*02:111 allele.

<sup>38</sup>Primer mix 68: Specific PCR fragment of 215 bp in the A\*02:113N allele. Specific PCR fragment of 260 bp in A\*02:184 allele.

<sup>39</sup>Primer mix 69: Specific PCR fragment of 170 bp in the A\*02:114 allele. Specific PCR fragment of 335 bp in A\*02:166 allele.

<sup>40</sup>Primer mix 70: Specific PCR fragment of 125 bp in the A\*02:115 allele. Specific PCR fragment of 280 bp in A\*02:53N and 02:192 alleles.

<sup>41</sup>Primer mix 72: Specific PCR fragment of 110 bp in the A\*02:183 allele. Specific PCR fragment of 230 bp in A\*02:189 allele. Specific PCR fragment of 260 bp in the A\*02:19, 02:44, 02:118, 02:135, 02:149, 02:152 and 02:190 alleles.

<sup>42</sup>Primer mix 73: Specific PCR fragment of 200 bp in the A\*02:119 allele. Specific PCR fragment of 250 bp in A\*02:158 allele.

<sup>43</sup>Primer mix 74: Specific PCR fragment of 175 bp in the A\*02:120 allele. Specific PCR fragment of 260 bp in A\*02.187 allele.

<sup>44</sup>Primer mix 75: Specific PCR fragment of 165 bp in the A\*02:166 allele. Specific PCR fragment of 205 bp in the A\*02:121 and the A\*68:14 alleles.

<sup>45</sup>Primer mix 77: Specific PCR fragment of 85 bp in the A\*02:123 allele. Specific PCR fragment of 110 bp in the A\*02:162 allele.

<sup>46</sup>Primer mix 78: Specific PCR fragment of 75 bp in the A\*02:193 allele. Specific PCR fragment of 240 bp in the A\*02:124 allele.

<sup>47</sup>Primer mix 79: Specific PCR fragment of 225 bp in the A\*02:125N allele. Specific PCR fragment of 270 bp in A\*02:53N, 02:184 and 02:192 alleles.

<sup>48</sup>Primer mix 80: Specific PCR fragment of 135 bp in the A\*02:194 allele. Specific PCR fragment of 230 bp in A\*02:126 allele.

<sup>49</sup>Primer mix 81: Specific PCR fragment of 110 bp in the A\*02:183 allele. Specific PCR fragment of 235 bp in A\*02:165 allele. Specific PCR fragment of 315 bp in A\*02:127 and 02:167 alleles.

<sup>50</sup>Primer mix 82: Specific PCR fragment of 130 bp in the A\*02:131 allele. Specific PCR fragment of 295 bp in the A\*02:199 allele.

<sup>51</sup>Primer mix 86: Specific PCR fragment of 180 bp in the A\*02:135 allele. Specific PCR fragment of 255 bp in the A\*02:174 allele.

<sup>52</sup>Primer mix 88: Specific PCR fragment of 130 bp in the A\*02:188 and the B\*15:67 alleles. Specific PCR fragment of 240 bp in the A\*02:139 allele.

<sup>53</sup>Primer mix 89: Specific PCR fragment of 115 bp in the A\*02:140 and the A\*33:15 alleles. Specific PCR fragment of 295 bp in the A\*02:182 allele.

<sup>54</sup>Primer mix 90: Specific PCR fragment of 100 bp in the A\*02:72 allele. Specific PCR fragment of 130 bp in the A\*02:161 allele. Specific PCR fragment of 190 bp in the A\*02:141 allele.

<sup>55</sup>Primer mix 92: Specific PCR fragment of 180 bp in the A\*02:173 allele. Specific PCR fragment of 260 bp in the A\*02:146 allele.

<sup>56</sup>Primer mix 93: Specific PCR fragment of 130 bp in the A\*02:163 allele. Specific PCR fragment of 250 bp in the A\*02:147 and the A\*24:73 and B\*15:173 alleles. Specific PCR fragment of 295 bp in the A\*02:157 allele.

<sup>57</sup>Primer mix 94: Specific PCR fragment of 210 bp in the A\*02:150 allele. Specific PCR fragment of 360 bp in A\*02:197 allele.

<sup>58</sup>Primer mix 96: Specific PCR fragment of 135 bp in the A\*02:196 allele. Specific PCR fragment of 250 bp in A\*02:153 allele.

'w', might be weakly amplified.











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4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9				
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																																										*02:116	+02:116
																																										*02:117	+02:117
																																										*02:118	+02:118
																																										*02:119	+02:119
																																										*02:120	+02:120
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																																										*02:150, 02:197 <sup>3</sup>	+02:150, +02:197
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																																										*02:153, 02:196 <sup>4</sup>	+02:153, +02:196
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Well No.									1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
	HLA-A allele <sup>2</sup>	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8		
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*02:170	+		+	+	+																																				
*02:171:01-02:171:02	+	+	+	+	+						+	+																													
*02:172	+		+			+	+	+					+	+																											
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*02:175	+	+	+	+	+																																				
*02:176	+	+	+																																						
*02:177	+	+	+	+	+																																				
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*02:179	+		+			+	+	+																																	
*02:180	+		+	+	+																																				
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*02:184	+	+	+	+	+																																				
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*02:187	+	+	+	+	+																																				
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*01:20																																									
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*03:17																																									
*03:23																																									
*03:44																																									
*03:75																																									
*11:06, 11:18	+																																								
*11:16, 11:35, 11:57																																									
*23:01:01-23:01:02, 23:05-23:07N, 23:09, 23:11N, 23:13, 23:15- 23:23, 23:25, 24:24																																									
*23:02																																									
*23:03:01-23:03:02, 29:07, 31:29																																									
*23:04																																									
*23:08N																																									



Well No.									1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	
HLA-A allele <sup>2</sup>	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	
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*23:12					+						+																												
*23:14					+																																		
*23:24, 24:13:01					+																																		
*24:02:01:01-24:02:15, 24:02:17-24:02:31, 24:04-24:05, 24:07- 24:09N, 24:11N, 24:17, 24:19-24:20, 24:25- 24:27, 24:29, 24:31- 24:32, 24:34-24:40N, 24:43-24:45N, 24:47- 24:50, 24:52-24:53, 24:57-24:58, 24:60N- 24:64, 24:66-24:71, 24:74, 24:76-24:86N, 24:88, 24:90N, 24:95- 24:98, 33:19																																							
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*24:03:01-24:03:02, 24:33, 24:75																																							
*24:10																																							
*24:13:02					+																																		
*24:14, 24:93																																							
*24:15, 24:41, 24:51, 24:92																																							
*24:18					+																																		
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*24:73																																							
*24:91																																							
*24:94																																							
*24:99																																							
*25:11, 26:36																																							
*26:03:01-26:03:02, 26:06, 26:21, 26:30																																							
*26:07:02, 33:01:02, 33:08-33:09, 74:04																																							
*26:10																																							
*26:22, 66:09																																							
*29:19, 32:08, 33:24																																							
*29:22, 33:22																																							
*30:01:01-30:01:03, 30:08, 30:11:01- 30:11:02, 30:14L- 30:15, 30:17-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35- 30:37																																							
*30:13																																							
*30:16																																							
*30:22																																							
*33:15																																							



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9 0 1 2				3 4 5 6				7 8 9 0				1 2 3 4				5 6 7 8				9 0 1 2				3 4 5 6				7 8 9 0				1 2 3 4				5 6 7 8				9 0 1 2				3 4 5 6				HLA-A allele <sup>2</sup>
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+																																								*24:10								
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				+																																				*24:18								
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W																																								*24:28, 24:30, 24:42, 24:89								
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4 5 5 5				5 5 5 5				5 5 5 6				6 6 6 6				6 6 6 6				6 7 7 7				7 7 7 7				7 7 7 8				8 8 8 8				8 8 8 8				8 9 9 9				9 9 9 9				Well No.
9 0 1 2				3 4 5 6				7 8 9 0				1 2 3 4				5 6 7 8				9 0 1 2				3 4 5 6				7 8 9 0				1 2 3 4				5 6 7 8				9 0 1 2				3 4 5 6				HLA-A allele <sup>2</sup>

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Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4									
HLA-A allele <sup>2</sup>	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8				
*68:01:01-68:01:07, 68:03:01-68:04, 68:07, 68:10-68:11N, 68:13, 68:16-68:17, 68:19, 68:21-68:22, 68:24, 68:29, 68:32, 68:35- 68:39, 68:41, 68:43, 68:45-68:47																																																				
*68:02:01:01-68:02:04, 68:18N, 68:27-68:28, 68:31, 68:34, 68:40																																																				
*68:05, 68:20																																																				
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*74:06																																																				
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B*15:67																																																				
B*15:173																																																				

<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\*02 subtyping.

In addition, wells number 6, 10, 13 to 16, 23, 26, 28, 30, 31, 34, 38, 42 to 44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 74, 76, 77, 83 to 86, 88 to 91 and 93 to 95 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 sequence of A\*02:0116 has been renamed to A\*02:134.

The sequence of A\*02:01:20 has been shown to be identical to A\*02:01:18

The sequence of the A\*02:23 allele has been shown to be identical to A\*02:22.

The sequence of the A\*02:98 allele has been shown to be identical to A\*02:96.

The A\*02:100 has never been assigned.

<sup>3</sup>The A\*02:150 and 02:197 alleles may can be distinguished by the different sizes of the specific PCR products generated by primer mix 94.

<sup>4</sup>The A\*02:153 and 02:196 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 96.

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																								Well No.
																								HLA-A allele <sup>2</sup>
																								*68:01:01-68:01:07, 68:03:01-68:04, 68:07, 68:10-68:11N, 68:13, 68:16-68:17, 68:19, 68:21-68:22, 68:24, 68:29, 68:32, 68:35- 68:39, 68:41, 68:43, 68:45-68:47
																								*68:02:01:01-68:02:04, 68:18N, 68:27-68:28, 68:31, 68:34, 68:40
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																								*80:01
																								B*15:67
																								B*15:173
																								Well No.
																								HLA-A allele <sup>2</sup>

<sup>5</sup>Primer mix 8: Specific PCR fragment of 415 bp in the A\*02:02, 02:05:01-02:05:03, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179 and 02:186 alleles. Specific PCR fragment of 505 bp in the A\*02:32N allele.

Primer mix 11: Specific PCR fragment of 225 bp in the A\*02:89 allele. Specific PCR fragment of 350 bp in the A\*02:04, 02:17:01-02:17:02, 02:57, 02:65, 02:89, 02:108, 02:110 and 02:152 and the A\*23:12, 24:28, 24:30, 24:42, 24:89, 29:19, 32:08, 33:24, 68:05, 68:20 and 74:06 alleles.

Primer mix 11 may give rise to a long fragment of approx. 600 bp in some HLA-A\*02 typings. This band should not be considered in the interpretation of HLA-A\*02 typings.

Primer mix 12: Specific PCR fragment of 195 bp in A\*02:85 allele. Specific PCR fragment of 235 bp in the A\*02:05:01-02:06:09, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79, 02:84, 02:91, 02:99, 02:106, 02:108, 02:122, 02:126-02:127, 02:137, 02:142-02:144, 02:154, 02:169-02:170, 02:172 and 02:178-02:180 and the A\*11:06, 11:18, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 68:05, 68:15, 68:20 alleles.

Primer mix 14: Specific PCR fragment of 95 bp in A\*02:91 allele. Specific PCR fragment of 170 bp in the A\*02:07, 02:15N, 02:18, 02:103, 02:112, 02:130 and 02:191 alleles.

Primer mix 15: Specific PCR fragment of 125 bp in the A\*02:21 and 02:186 alleles. Specific PCR fragment of 265 bp in the A\*02:87, 02:112, 02:129 and 02:136 alleles. Specific PCR fragment of 305 bp in the A\*02:96 allele.

Primer mix 16: Specific PCR fragment of 110 bp in the A\*02:50, 02:73, 02:93, 02:122, 02:156 and 02:172 and the A\*24:15, 24:41, 24:51, 24:92, 26:10, 68:02:01:01-68:02:04, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44 and 68:48-68:49N alleles. Specific PCR fragment of 155 bp in the A\*02:09 and 02:49 alleles.

Primer mix 17: Specific PCR fragment of 205 bp in the A\*02:83N allele. Specific PCR fragment of 360 bp in the A\*02:10, 02:17:01-02:17:02, 02:39, 02:108, 02:110 and 02:148 and the A\*23:12, 24:28, 24:30, 24:42 and 24:89 alleles.

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Primer mix 23: Specific PCR fragment of 135 bp in the A\*02:31 and 02:161 alleles. Specific PCR fragment of 180 bp in the A\*02:17:01-02:17:02, 02:108 and 02:110 and the A\*24:94 alleles.

Primer mix 26: Specific PCR fragment of 125 bp in the A\*02:33 allele. Specific PCR fragment of 165 bp in the A\*02:52 allele. Specific PCR fragment of 260 bp in the A\*02:198 allele.

Primer mix 27: Specific PCR fragment of 95 bp in the A\*02:28, 02:155 and 02:185 and the A\*30:13 and 30:16 alleles.

Specific PCR fragments of 145 bp in A\*02:10, 02:50, 02:52, 02:73, 02:93, 02:95, 02:110, 02:114, 02:117, 02:122, 02:156, 11:16, 11:35, 11:57, 68:01:01-68:11N, 68:13-68:48 alleles.

Primer mix 29: Specific PCR fragment of 220 bp in the A\*02:45-02:46, 02:48, 02:56:01<sup>w</sup>-02:56:02<sup>w</sup>, 02:78<sup>w</sup>, 02:92, 02:103<sup>w</sup>, 02:129, 02:169<sup>w</sup> and 02:195<sup>w</sup> alleles. Specific PCR fragment of 300 bp in A\*02:180 allele.

Primer mix 30: Specific PCR fragment of 130 bp in the A\*02:163 allele. Specific PCR fragment of 160 bp in A\*02:43N and 02:104 alleles.

Primer mix 31: Specific PCR fragment of 95 bp in A\*02:82N and in the A\*23:08N alleles. Specific PCR fragments of 220 bp in A\*02:45, 02:56:01-02:56:02, 02:78, 02:103, 02:169 and 02:195 alleles.

Primer mix 32: Specific PCR fragment of 205 bp in the A\*02:176 allele. Specific PCR fragment of 230 bp in the A\*02:46, 02:48, 02:70 and 02:129 alleles. Specific PCR fragment of 255 bp in the A\*02:47 allele.

Primer mix 33: Specific PCR fragment of 230 bp in A\*02:165 and 02:168 alleles. Specific PCR fragments of 325 bp in A\*02:19, 02:36-02:37 and 02:54 alleles.

Primer mix 34: Specific PCR fragment of 120 bp in the A\*02:88N allele. Specific PCR fragment of 180 bp in the A\*02:34-02:35:02, 02:56:01-02:56:02, 02:62, 02:78, 02:103 and in the A\*30:01:01-30:01:03, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:24, 30:26, 30:30-30:31 and 30:35-30:37 alleles.

Primer mix 34 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretation of HLA-A\*02 typings.

Primer mix 35: Specific PCR fragment of 110 bp in A\*02:40, 02:51, 02:130 and in the A\*23:01:01-23:01:02, 23:02<sup>w</sup>, 23:04-23:13, 23:14<sup>w</sup>, 23:15-23:23, 23:25 and 24:24 alleles. Specific PCR fragment of 155 bp in A\*02:77 allele.

Primer mix 36: Specific PCR fragment of 85 bp in A\*02:94N allele. Specific PCR fragments of 445 bp in the A\*02:24, 02:65, 02:135, 02:137 and 02:152 and in the A\*03:09, 11:06, 11:18, 25:11, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 26:36, 29:19, 30:13, 30:16, 32:08, 33:24, 74:06 and 80:01<sup>w</sup> alleles.

Primer mix 39: Specific PCR fragment of 75 bp in the A\*02:18 allele. Specific PCR fragment of 165 bp in the A\*02:159 allele. Specific PCR fragment of 200 bp in the A\*02:170 allele.

Primer mix 40: Specific PCR fragment of 90 bp in the A\*02:67 allele. Specific PCR fragment of 210 bp in the A\*02:40, 02:51 and 02:130 and in the A\*29:22 and 33:22 alleles.

Primer mix 43: Specific PCR fragment of 180 bp in the A\*02:71 allele. Specific PCR fragment of 225 bp in the A\*02:03:01-02:03:02, 02:22:01-02:22:02, 02:49, 02:104, 02:117, 02:136, 02:148 and 02:191 and in the A\*26:22 and 66:09 alleles.

Primer mix 45: Specific PCR fragment of 105 bp in the A\*02:60 allele. Specific PCR fragment of 185 bp in the A\*02:19, 02:39, 02:44, 02:79 and 02:86 and in the A\*01:20, 24:14 and 24:93 alleles.

Primer mix 46: Specific PCR fragment of 70 bp in the A\*02:66 allele. Specific PCR fragment of 150 bp in the A\*02:181 allele. Specific PCR fragment of 205 bp in the A\*02:61 allele.

Primer mix 54: Specific PCR fragment of 240 bp in the A\*02:189-02:190 alleles. Specific PCR fragment of 350 bp in A\*02:74:01- 02:74:02 alleles.

Primer mix 56: Specific PCR fragment of 150 bp in the A\*02:175 and 02:181 alleles. Specific PCR fragment of 275 bp in A\*02:53N, 02:81 and 02:124 alleles.

Primer mix 57: Specific PCR fragment of 105 bp in the A\*02:42 allele. Specific PCR fragment of 145 bp in A\*02:160 and 02:175 alleles.

Primer mix 64: Specific PCR fragment of 125 bp in the A\*02:106 and 02:145 and in the A\*24:72 alleles. Specific PCR fragment of 175 bp in A\*02:164 and in the A\*01:44 and 03:44 alleles. Specific PCR fragment of 260 bp in A\*02:187 allele.

Primer mix 65: Specific PCR fragment of 145 bp in the A\*02:160 allele. Specific PCR fragment of 185 bp in A\*02:107 allele.

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Lot-specific information

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Primer mix 67: Specific PCR fragment of 105 bp in the A\*02:177 allele. Specific PCR fragment of 130 bp in A\*02:111 allele.

Primer mix 68: Specific PCR fragment of 215 bp in the A\*02:113N allele. Specific PCR fragment of 260 bp in A\*02:184 allele.

Primer mix 69: Specific PCR fragment of 170 bp in the A\*02:114 allele. Specific PCR fragment of 335 bp in A\*02:166 allele.

Primer mix 70: Specific PCR fragment of 125 bp in the A\*02:115 allele. Specific PCR fragment of 280 bp in A\*02:53N and 02:192 alleles.

Primer mix 72: Specific PCR fragment of 110 bp in the A\*02:183 allele. Specific PCR fragment of 230 bp in A\*02:189 allele. Specific PCR fragment of 260 bp in the A\*02:19, 02:44, 02:118, 02:135, 02:149, 02:152 and 02:190 alleles.

Primer mix 73: Specific PCR fragment of 200 bp in the A\*02:119 allele. Specific PCR fragment of 250 bp in A\*02:158 allele.

Primer mix 74: Specific PCR fragment of 175 bp in the A\*02:120 allele. Specific PCR fragment of 260 bp in A\*02:187 allele.

Primer mix 75: Specific PCR fragment of 165 bp in the A\*02:166 allele. Specific PCR fragment of 205 bp in the A\*02:121 and the A\*68:14 alleles.

Primer mix 77: Specific PCR fragment of 85 bp in the A\*02:123 allele. Specific PCR fragment of 110 bp in the A\*02:162 allele.

Primer mix 78: Specific PCR fragment of 75 bp in the A\*02:193 allele. Specific PCR fragment of 240 bp in the A\*02:124 allele.

Primer mix 79: Specific PCR fragment of 225 bp in the A\*02:125N allele. Specific PCR fragment of 270 bp in A\*02:53N, 02:184 and 02:192 alleles.

Primer mix 80: Specific PCR fragment of 135 bp in the A\*02:194 allele. Specific PCR fragment of 230 bp in A\*02:126 allele.

Primer mix 81: Specific PCR fragment of 110 bp in the A\*02:183 allele. Specific PCR fragment of 235 bp in A\*02:165 allele. Specific PCR fragment of 315 bp in A\*02:127 and 02:167 alleles.

Primer mix 82: Specific PCR fragment of 130 bp in the A\*02:131 allele. Specific PCR fragment of 295 bp in the A\*02:199 allele.

Primer mix 86: Specific PCR fragment of 180 bp in the A\*02:135 allele. Specific PCR fragment of 255 bp in the A\*02:174 allele.

Primer mix 88: Specific PCR fragment of 130 bp in the A\*02:188 and the B\*15:67 alleles. Specific PCR fragment of 240 bp in the A\*02:139 allele.

Primer mix 89: Specific PCR fragment of 115 bp in the A\*02:140 and the A\*33:15 alleles. Specific PCR fragment of 295 bp in the A\*02:182 allele.

Primer mix 90: Specific PCR fragment of 100 bp in the A\*02:72 allele. Specific PCR fragment of 130 bp in the A\*02:161 allele. Specific PCR fragment of 190 bp in the A\*02:141 allele.

Primer mix 92: Specific PCR fragment of 180 bp in the A\*02:173 allele. Specific PCR fragment of 260 bp in the A\*02:146 allele.

Primer mix 93: Specific PCR fragment of 130 bp in the A\*02:163 allele. Specific PCR fragment of 250 bp in the A\*02:147 and the A\*24:73 and B\*15:173 alleles. Specific PCR fragment of 295 bp in the A\*02:157 allele.

Primer mix 94: Specific PCR fragment of 210 bp in the A\*02:150 allele. Specific PCR fragment of 360 bp in A\*02:197 allele.

Primer mix 96: Specific PCR fragment of 135 bp in the A\*02:196 allele. Specific PCR fragment of 250 bp in A\*02:153 allele.

'w', might be weakly amplified.

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Lot-specific information

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## Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	360	230	175	80	125	75	175	415	105	115	225	195
								505			350	235
Length of int. pos. control <sup>1</sup>	<b>800</b>	1070	1070	1070	1070	<b>800</b>	1070	1070	1070	<b>800</b>	1070	1070
5'-primer(s) <sup>2</sup>	292	102	362	200	453	506	402	270	453	453	292	98
	5' -CTC 3'	5' -ACA 3'	5' -gAg 3'	5' -CCA 3'	5' -AAA 3'	5' -gCA 3'	5' -CTg 3'	5' -AAA 3'	5' -AAA 3'	5' -AAA 3'	5' -CTC 3'	5' -CTA 3'
			362								648	362
			5' -gAg 3'								5' -CAA 3'	5' -gAg 3'
3'-primer(s) <sup>3</sup>	368	292	497	240	539	539	538	402	517	527	362	292
	5' -CAT 3'	5' -gTg 3'	5' -Tgg 3'	5' -ggA 3'	5' -TCA 3'	5' -TCC 3'	5' -CCA 3'	5' -CgC 3'	5' -CgT 3'	5' -CCT 3'	5' -TCA 3'	5' -gTg 3'
				241			538	493			362	518
				5' -CgC 3'			5' -CAA 3'	5' -CTA 3'			5' -TCA 3'	5' -CCA 3'
											831	
											5' -TCC 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	145	95	125	110	205	175	125	295	220	160	135	115
		170	265	155	360						180	
			305									
Length of int. pos. control <sup>1</sup>	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	1070	1070	1070	1070	1070	1070	<b>800</b>	1070
5'-primer(s) <sup>2</sup>	98	368	78	385	292	144	453	2 <sup>nd</sup> I	666	453	194	453
	5' -CTA 3'	5' -gTg 3'	5' -TCT 3'	5' -ggC 3'	5' -CTC 3'	5' -gCA 3'	5' -AAA 3'	5' -CCA 3'	5' -gAA 3'	5' -AAA 3'	5' -Cgg 3'	5' -AAA 3'
	355	445		666	666						205	
	5' -CCT 3'	5' -TCT 3'		5' -gAA 3'	5' -gAA 3'						5' -ggg 3'	
											368	
											5' -gTT 3'	
3'-primer(s) <sup>3</sup>	200	497	160	453	368	268	538	538	843	570	292	527
	5' -TCC 3'	5' -Tgg 3'	5' -gTT 3'	5' -TCT 3'	5' -CAA 3'	5' -TTg 3'	5' -CTg 3'	5' -CCg 3'	5' -gTT 3'	5' -CCg 3'	5' -gTg 3'	5' -CCg 3'
	453		160	779	829	290					506	
	5' -TCT 3'		5' -gTg 3'	5' -CTT 3'	5' -CTA 3'	5' -CAA 3'					5' -TgT 3'	
			302									
			5' -ggT 3'									
			343									
			5' -A 3'									
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product	145	125	95	235	220	130	95	205	230	120	110	85
		165	145		300	160	220	230	325	180	155	445
		260						255				
Length of int. pos. control <sup>1</sup>	1070	<b>800</b>	1070	<b>800</b>	1070	<b>800</b>	<b>800</b>	1070	1070	<b>800</b>	1070	1070
5'-primer(s) <sup>2</sup>	453	2 <sup>nd</sup> I	238	78	78	529	78	78	2 <sup>nd</sup> I	144	453	292
	5' -AAA 3'	5' -CCA 3'	5' -AgA 3'	5' -TCT 3'	5' -TCT 3'	5' -TgA 3'	5' -TCT 3'	5' -TCT 3'	5' -CCA 3'	5' -gCA 3'	5' -AAA 3'	5' -CTC 3'
			391			666	564			420		
			5' -ACg 3'			5' -gAA 3'	5' -TgA 3'			5' -TAg 3'		
			391									
			5' -ACg 3'									
3'-primer(s) <sup>3</sup>	559	368	292	270	257	616	256	241	473	282	524	335
	5' -CTC 3'	5' -CAg 3'	5' -gTg 3'	5' -ACg 3'	5' -CCT 3'	5' -CgT 3'	5' -CTg 3'	5' -CgT 3'	5' -CgA 3'	5' -gAC 3'	5' -CAC 3'	5' -gC 3'
		411	497	270	337	781	616	265	482	282	569	453
		5' -TCA 3'	5' -Tgg 3'	5' -ACA 3'	5' -CTg 3'	5' -CCC 3'	5' -CgT 3'	5' -CCC 3'	5' -Tgg 3'	5' -gAC 3'	5' -ACA 3'	5' -TCg 3'
		505				791		290	570	497		
		5' -gTA 3'				5' -AgT 3'		5' -gAC 3'	5' -CCg 3'	5' -Tgg 3'		
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

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Lot-specific information

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Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product	140	125	75 165 200	90 210	185	225	180 225	155	105 185	70 150 205	165	110
Length of int. pos. control <sup>1</sup>	1070	<b>800</b>	1070	1070	1070	<b>800</b>	<b>800</b>	<b>800</b>	1070	1070	<b>800</b>	1070
5'-primer(s) <sup>2</sup>	453 5' -AAA 3'	414 5' -CAg 3'	453 5' -AAA 3'	355 5' -CCg 3'	355 5' -CCC 3'	98 5' -CTT 3'	355 5' -CCg 3'	125 5' -CgA 3'	355 5' -CCg 3'	78 5' -TCT 3'	78 5' -TCT 3'	419 5' -gTC 3'
				692 5' -gAA 3'						746 5' -gAT 3'		431 5' -CgC 3'
3'-primer(s) <sup>3</sup>	542 5' -CTT 3'	497 5' -Tgg 3'	485 5' -CCT 3'	403 5' -gCA 3'	506 5' -TgT 3'	282 5' -gAC 3'	494 5' -TCC 3'	240 5' -ggA 3'	419 5' -CgA 3'	187 5' -gTg 3'	203 5' -TCA 3'	497 5' -Tgg 3'
	559 5' -CCg 3'		578 5' -Tgg 3'	524 5' -CAC 3'	831 5' -TCC 3'	282 5' -gAC 3'	539 5' -TCC 3'		497 5' -TgA 3'	241 5' -CgC 3'		
			613 5' -gCA 3'							777 5' -gCA 3'		
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product	145	145	410	185	225	240 350	200	150 275	105 145	255	145	345
Length of int. pos. control <sup>1</sup>	1070	<b>800</b>	1070	<b>800</b>	1070	<b>800</b>	1070	1070	1070	<b>800</b>	<b>800</b>	1070
5'-primer(s) <sup>2</sup>	453 5' -AAA 3'	-111 5' -ATC 3'	292 5' -CTC 3'	98 5' -CTC 3'	355 5' -CCC 3'	2 <sup>nd</sup>   5' -CCA 3'	81 5' -CAg 3'	78 5' -TCT 3'	78 5' -TCT 3'	78 5' -TCT 3'	666 5' -gAA 3'	292 5' -CTC 3'
3'-primer(s) <sup>3</sup>	559 5' -CCg 3'	4 5' -ggC 3'	418 5' -gTC 3'	240 5' -ggA 3'	538 5' -CAA 3'	475 5' -CgA 3'	240 5' -ggA 3'	187 5' -gTg 3'	142 5' -TgA 3'	292 5' -gTC 3'	768 5' -gTg 3'	355 5' -gAT 3'
						497 5' -Tgg 3'		187 5' -gTA 3'	184 5' -gCC 3'		768 5' -gTA 3'	
						595 5' -CCg 3'		302 5' -ggC 3'	187 5' -gTA 3'			
						595 5' -CCT 3'		324 5' -TAC 3'				
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec. PCR product	185	180	160	125 175 260	145 185	170	105 130	215 260	170 335	125 280	260	110 230 260
Length of int. pos. control <sup>1</sup>	1070	<b>800</b>	<b>800</b>	1070	1070	<b>800</b>	<b>800</b>	1070	1070	<b>800</b>	<b>800</b>	1070
5'-primer(s) <sup>2</sup>	355 5' -CCA 3'	666 5' -gAA 3'	420 5' -TAT 3'	395 5' -gCA 3'	78 5' -TCT 3'	112 5' -CCT 3'	406 5' -gCA 3'	78 5' -TCT 3'	2 <sup>nd</sup>   5' -CCA 3'	78 5' -TCT 3'	78 5' -TCT 3'	2 <sup>nd</sup>   5' -CCA 3'
				484 5' -ACT 3'			431 5' -CgC 3'					
				530 5' -ggT 3'								
3'-primer(s) <sup>3</sup>	497 5' -Tgg 3'	806 5' -CCA 3'	538 5' -CAA 3'	616 5' -CgT 3'	184 5' -gCC 3'	240 5' -ggA 3'	497 5' -Tgg 3'	251 5' -CCT 3'	413 5' -gCC 3'	164 5' -gCT 3'	298 5' -CAg 3'	353 5' -CgA 3'
					221 5' -ACA 3'			299 5' -CCT 3'	578 5' -TgT 3'	319 5' -gCT 3'		475 5' -CgA 3'
												506 5' -TgC 3'
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec. PCR product	200	175	165	230	85	75	225	135	110	130	100	180
	250	260	205		110	240	270	230	235	295		
									315			
Length of int. pos. control <sup>1</sup>	1070	<b>800</b>	1070	<b>800</b>	<b>800</b>	1070	1070	1070	1070	1070	<b>800</b>	<b>800</b>
5'-primer(s) <sup>2</sup>	78	104	453	48	78	417	78	359	2 <sup>nd</sup> I	341	808	78
	5' -TCT 3'	5' -ATA 3'	5' -AAA 3'	5' -gCT 3'	5' -TCT 3'	5' -CAC 3'	5' -TCT 3'	5' -CCg 3'	5' -CCA 3'	5' -ggg 3'	5' -CgA 3'	5' -TCT 3'
		395			385	666		666		666		484
		5' -gCA 3'			5' -ggA 3'	5' -gAA 3'		5' -gAA 3'		5' -gAA 3'		5' -ACT 3'
3'-primer(s) <sup>3</sup>	239	240	578	106	121	453	260	453	353	355	868	221
	5' -gAT 3'	5' -ggA 3'	5' -TgT 3'	5' -CAT 3'	5' -gCA 3'	5' -TCT 3'	5' -T.T 3'	5' -TCT 3'	5' -CgA 3'	5' -gAC 3'	5' -CAA 3'	5' -ACC 3'
	289	616	616		453	866	299	853	482	755		616
	5' -AgC 3'	5' -CgT 3'	5' -CgC 3'		5' -TCT 3'	5' -AAA 3'	5' -CCT 3'	5' -CAT 3'	5' -Tgg 3'	5' -CCA 3'		5' -CgT 3'
							319		559			
							5' -gCT 3'		5' -CTT 3'			
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86	87	88	89	90	91	92	93	94	95	96
Length of spec. PCR product	260	180	155	130	115	100	110	180	130	210	135	135
		255		240	295	130		260	250	360		250
						190			295			
Length of int. pos. control <sup>1</sup>	<b>800</b>	<b>800</b>	1070	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	1070	<b>800</b>	<b>800</b>	<b>800</b>	1070
5'-primer(s) <sup>2</sup>	666	2 <sup>nd</sup> I	78	78	2 <sup>nd</sup> I	143	385	78	364	124	412	78
	5' -gAA 3'	5' -CCA 3'	5' -TCT 3'	5' -TCT 3'	5' -CCA 3'	5' -CgT 3'	5' -ggC 3'	5' -TCT 3'	5' -ggT 3'	5' -gCA 3'	5' -ATg 3'	5' -TCT 3'
				419	652	205	385		409	2 <sup>nd</sup> I		355
				5' -gTC 3'	5' -CTg 3'	5' -ggg 3'	5' -ggA 3'		5' -ggC 3'	5' -CCA 3'		5' -CCg 3'
						235			529			
						5' -AgA 3'			5' -TgA 3'			
3'-primer(s) <sup>3</sup>	884	423	193	277	542	292	453	218	616	292	506	172
	5' -ggA 3'	5' -TAA 3'	5' -Cgg 3'	5' -ggT 3'	5' -CTg 3'	5' -gTg 3'	5' -TCT 3'	5' -gCA 3'	5' -CgT 3'	5' -gTg 3'	5' -TgT 3'	5' -CAT 3'
		502		506	727			299		605		565
		5' -CTg 3'		5' -TgT 3'	5' -CCA 3'			5' -TCg 3'		5' -gCA 3'		5' -CAT 3'
Well No.	85	86	87	88	89	90	91	92	93	94	95	96

<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\*02 subtyping.

In addition, wells number 6, 10, 13 to 16, 23, 26, 28, 30, 31, 34, 38, 42 to 44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 74, 76, 77, 83 to 86, 88 to 91 and 93 to 95 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 5' upstream region, 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exons or the 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> exons, 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.



				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Lot No.:	200626001	200626002	200957803	200626004	200626005	200626006	200957807	200738508	200626009	200626010	200849411	200626012	200738513	200957814	200967115	200957816
	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	W	-	-	-	-	-	-	-	-	-	W	-	-	-	-	-	-
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	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-

				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Lot No.:	200626017	200626018	200957819	200738520	200738521	200626022	201075223	200738524	201075225	201075226	200849427	200626028	200967129	200967130	200967131	200967132
	IHWC cell line	A*	A*																	
1	9001 SA	*24:02		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Lot No.:	201075233	200967134	200626035	200626036	200738537	200967138	200967139	200738540	200957841	200967142	200626043	200626044	200626045	200967146	200967147	200967148
	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	-	-	-	W	-	-	-	-	-	-	+	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				200738549	200738550	200738551	200738552	200957853	200967154	200849455	200967156	200967157	200738558	200967159	201075260	201075261	200738562	200738563	200967164
	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	-	-	W	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				Well															
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				Lot No.:															
				200967165	200957866	200967167	200967168	200967169	200967170	200967171	200967172	200967173	200967174	201075275	200957876	200967177	200967178	200967179	200967180
	IHWC cell line	A*	A*																
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-A*02 SSP subtyping kit</b>																			
				Well															
				81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
			Lot No.:	200967181	201075282	200738583	201075284	201075285	200967186	200849487	200967188	201075289	200967190	200967191	200967192	200967193	201075294	200957895	201075296
	<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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: **37K**

Lot-specific information

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

## CERTIFICATE OF ANALYSIS

### Olerup SSP® HLA-A\*02 SSP

Product number: 101.412-24/04 – including *Taq* pol.  
Lot number: 37K  
Expiry date: 2012-August-01  
Number of tests: 24 tests – Product No. 101.412-24  
4 tests – Product No. 101.412-04  
Number of wells per test: 96

#### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2006-260-01	33	2010-752-33	65	2009-671-65
2	2006-260-02	34	2009-671-34	66	2009-578-66
3	2009-578-03	35	2006-260-35	67	2009-671-67
4	2006-260-04	36	2006-260-36	68	2009-671-68
5	2006-260-05	37	2007-385-37	69	2009-671-69
6	2006-260-06	38	2009-671-38	70	2009-671-70
7	2009-578-07	39	2009-671-39	71	2009-671-71
8	2007-385-08	40	2007-385-40	72	2009-671-72
9	2006-260-09	41	2009-578-41	73	2009-671-73
10	2006-260-10	42	2009-671-42	74	2009-671-74
11	2008-494-11	43	2006-260-43	75	2010-752-75
12	2006-260-12	44	2006-260-44	76	2009-578-76
13	2006-260-13	45	2006-260-45	77	2009-671-77
14	2009-578-14	46	2009-671-46	78	2009-671-78
15	2009-671-15	47	2009-671-47	79	2009-671-79
16	2009-578-16	48	2009-671-48	80	2009-671-80
17	2006-260-17	49	2007-385-49	81	2009-671-81
18	2006-260-18	50	2007-385-50	82	2010-752-82
19	2009-578-19	51	2007-385-51	83	2007-385-83
20	2007-385-20	52	2007-385-52	84	2010-752-84
21	2007-385-21	53	2009-578-53	85	2010-752-85
22	2006-260-22	54	2009-671-54	86	2009-671-86
23	2010-752-23	55	2008-494-55	87	2008-494-87
24	2007-385-24	56	2009-671-56	88	2009-671-88
25	2010-752-25	57	2009-671-57	89	2010-752-89
26	2010-752-26	58	2007-385-58	90	2009-671-90
27	2008-494-27	59	2009-671-59	91	2009-671-91
28	2006-260-28	60	2010-752-60	92	2009-671-92
29	2009-671-29	61	2010-752-61	93	2009-671-93
30	2009-671-30	62	2007-385-62	94	2010-752-94
31	2009-671-31	63	2007-385-63	95	2009-578-95
32	2009-671-32	64	2009-671-64	96	2010-752-96

Lot No.: **37K**

Lot-specific information

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

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

No DNAs carrying the alleles to be amplified by primer solutions 15, 20, 21, 24, 26, 29, 30, 32, 33, 38 to 40, 44, 46 to 48, 50, 52, 54, 56, 57, 59, 63 to 74, 76 to 90 and 92 to 96 were available.

The specificities of the primers in primer solutions 15, 20, 26, 30, 32, 33, 40, 46, 52, 56, 69, 72, 77, 78, 80, 82, 84, 88 and 92 to 95 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

In primer solutions 21, 24, 29, 39, 47, 54, 57, 59, 65, 68, 70, 71, 73, 76, 79, 81, 85 to 87, 89 and 96 it was only possible to test the 5'-primer, the 3'-primer were not possible to test.

In primer solutions 38, 44, 48, 63, 64, 66, 67, 74 and 90 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solutions 50 and 83 neither the 5'-primer nor the 3'-primer was possible to test.

In primer solutions 4, 8, 12, 15, 17, 18, 23, 26, 28, 30, 32, 33, 35 to 37, 40, 43, 46, 56, 69, 72, 75, 77, 78, 80, 82, 84, 88, 92 and 94 one or several of the 3'-primers were not possible to test.

In primer solutions 11, 13, 14, 23, 27, 30, 34, 41, 46, 77, 78, 80, 82, 84, 91 and 93 one or two of the 5'-primers were not possible to test.

Additional primers in primer solutions 10 to 13, 17, 23, 27, 31, 34 and 41 were tested by separately adding either one additional 3'-primer or one additional 5'-primer.

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

**Date of approval:** 2011-July-07

**Approved by:**

**Quality Control, Supervisor**



Lot No.: **37K**

Lot-specific information

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

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-A\*02  
**Product number:** 101.412-24/04  
**Lot number:** 37K

**Intended use:** HLA-A\*02 high resolution histocompatibility testing

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

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

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

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

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

Saltsjöbaden, Sweden

2011-July-07

Olle Olerup  
Managing Director





Lot No.: **37K**

Lot-specific information

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

**ADDRESSES:**

**Manufacturer:**

**Olerup SSP AB**, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

**Tel:** +46-8-717 88 27

**Fax:** +46-8-717 88 18

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

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

**Distributed by:**

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

**Tel:** +43-1-710 15 00

**Fax:** +43-1-710 15 00 10

**E-mail:** [support-at@olerup.com](mailto:support-at@olerup.com)

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

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

**Tel:** 1-877-OLERUP1

**Fax:** 610-344-7989

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

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

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