

101.412-24/04 – including *Taq* polymerase, IFU-01  
101.412-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **25R**

Lot-specific information

## **Olerup SSP<sup>®</sup> HLA-A\*02**

<b>Product number:</b>	<b>101.412-24/04 – including <i>Taq</i> pol. 101.412-24u/04u – without <i>Taq</i> pol.</b>
<b>Lot number:</b>	<b>25R</b>
<b>Expiry date:</b>	<b>2015-May-01</b>
<b>Number of tests:</b>	<b>24 tests – Product No. 101.412-24/24u 4 tests – Product No. 101.412-04/04u</b>
<b>Number of wells per test:</b>	<b>96</b>
<b>Storage - pre-aliquoted primers:</b>	<b>dark at -20°C</b>
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

**This Product Description is only valid for Lot No. 25R.**

### **CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup> HLA-A\*02 LOT (93N)**

The specificity and interpretation tables have been revised since the previous *Olerup SSP<sup>®</sup> HLA-A\*02 lot (93N)*.

The HLA-A\*02 kit is updated for new alleles to enable separation of:

- Confirmed<sup>1</sup> alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

The Lot-specific information for HLA-A\*02 including and without *Taq* polymerase is now described in one common Product Insert.

<sup>1</sup>As described in section Uniquely Identified Alleles.

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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
1	Added	Added	Primers added for the A*02:01:55 and A*02:01:66 alleles.
3	-	Added	3'-primers added for the A*02:01:59 and A*02:01:68 alleles.
19	-	Added	3'-primer added for the A*02:283 allele.
20	Added	Added	Primer pair added for the A*02:200 allele.
21	Added	Added	Primer pair added for the A*02:291 allele.
24	Added	Added	Primer pairs added for the A*02:230 and A*02:233 alleles.
25	-	Added	3'-primers added for the A*02:283 and A*02:226N alleles.
35	-	Added	3'-primer added for the A*24:40:02 allele.
37	-	Added	3'-primer added for the A*24:101:02 allele.
38	Added	Added	Primer pair added for the A*02:351 allele.
39	-	Added	3'-primer added for the A*02:293Q allele.
40	-	Added	3'-primer added for the A*02:40:02 allele.
44	Added	Added	Primers added for the A*02:203 and A*02:222N alleles.
47	-	Added	3'-primers added for the A*02:90, A*02:205 and A*02:207 alleles.
49	-	Added	3'-primers added for the A*02:101:02 and A*02:267 alleles.
55	Added	Added	Primer pair added for the A*02:323 allele.
59	-	Added	3'-primer added for the A*02:305N allele.
63	Added	Modified	5'-primers added for the A*02.301N and A*02:259 alleles.
64	Added	-	5'-primer added for the A*02:221 allele.
65	Added	Added	Primers added for the A*02:202 and A*02:251 alleles.
67	Added	Added	Primer pairs added for the A*02:330 and A*02:350N alleles.
68	-	Added	3'-primer added for the A*02:321N allele.
69	Added	Added	Primer pair added for the A*02:260 allele.
70	-	Added	3'-primers added for the A*02:269 and A*02:367 alleles.
73	Added	Added	Primer pair added for the A*02:263 allele, exchanged positive control primer pair.
74	Added	-	5'-primer added for the A*02:223N allele.
75	-	Added	3'-primer added for the A*02:373N allele.
76	Added	Added	Primer pair added for the A*02:225N allele.
78	Added	-	5'-primer added for the A*02:213 allele.

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79	Added	Added	Primer pair added for the A*02:227N allele.
80	Added	-	5'-primer added for the A*02:214 allele.
81	-	Added	3'-primer added for the A*02:299 allele.
82	-	Added	3'-primer added for the A*02:291 allele.
83	Added	Added	Primer pairs added for the A*02:215 and A*02:237 alleles.
84	-	Added	3'-primers added for the A*02:250N and A*02:315 alleles.
85	Added	Added	Primer pair added for the A*02:314N allele.
86	-	Added	3'-primer added for the A*02:228 allele.
87	Added	Added	Primer pair added for the A*02:284N allele, exchanged positive control primer pair.
88	-	Added	3'-primer added for the A*02:235 allele.
89	Added	Added	Primer pair added for the A*02:227N allele.
90	Added	-	5'-primer added for the A*02:206 allele.
91	Added	-	5'-primers added for the 02:211:01 and 02:211:02 alleles.
94	Added	-	5'-primer added for the A*02:325 allele.
96	-	Added	3'-primer added for the A*02:366N allele.

Change in revision R01 compared to R00:

1. Primer mix 1 may amplify the A\*02:07:01-02:07:02 alleles. A footnote has been added in the Specificity Table.

Change in revision R02 compared to R01:

1. Primer mix 1 does amplify the A\*02:158 allele. This has been corrected in the Specificity and Interpretation tables.

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## PRODUCT DESCRIPTION

### HLA-A\*02 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the A\*02:01 to A\*02:374 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. '25R'.

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 seven A\*01, most A\*03, eight A\*11, the A\*23, most A\*24, the A\*25:11, nine A\*26, four A\*29, several A\*30, two A\*31, three A\*32, eight 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 and B\*35:110 alleles will be amplified by primer mix 88, the B\*15:173 and B\*18:63 alleles will be amplified by primer mix 93, the B\*44:136 allele will be amplified by primer mixes 16 and 91, the B\*51:136 allele will be amplified by primer mixes 5, 10, 16 and 91, the C\*07:204 allele will be amplified by primer mixes 5, 16, 24, 49 and 91 and the C\*12:37 allele will be amplified by primer mixes 10, 16 and 91.

#### UNIQUELY IDENTIFIED ALLELES

All HLA-A\*02 alleles recognized by the HLA Nomenclature Committee in July 2012, i.e. **A\*02:01 to A\*02:374**, will be amplified by the primers in the HLA-A\*02 subtyping kit<sup>1</sup>.

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The HLA-A\*02 kit enables separation of the confirmed HLA-A\*02 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-A\*02 alleles is listed below.

The HLA-A\*02 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles

The A\*02:107, the 02:202 and the 02:251 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 65.

The A\*02:111 and 02:350N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 67.

The A\*02:119 and 02:263 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 73.

The A\*02:120 and 02:223N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 74.

The A\*02:132, the 02:215 and the 02:237 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 83.

The A\*02:134 and 02:314N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 85.

The A\*02:138 and 02:284N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 87.

The A\*02:139 and 02:235 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 88.

The A\*02:141 and 02:275 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 90.

The A\*02:150, the 02:197 and the 02:325 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 may be distinguished by the different sizes of the specific PCR products generated by primer mix 96.

The A\*02:180 and 02:358 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 29.

The A\*02:193 and 02:213 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 78.

The A\*02:269 and 02:367 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 70.

The HLA-A\*02 subtyping kit cannot distinguish the silent mutations in 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, 02:01:21-02:01:51, 02:01:53-02:01:62, 02:01:64-02:01:73 and 02:01:75-02:01:80 alleles, the A\*02:01:17, 02:01:52, 02:01:63 and 02:01:74 alleles, the A\*02:03:01, 02:03:03-02:03:04 alleles, the A\*02:05:01-02:05:05 alleles, the A\*02:06:01-02:06:11 and 02:06:13 alleles, the A\*02:07:01-02:07:02 alleles, the A\*02:11:01, 02:11:03-02:11:04 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\*02:24:01-02:24:02 alleles, the A\*02:40:01-02:40:02 alleles, the A\*02:60:01-02:60:02 alleles, the A\*02:74:01-02:74:02 alleles, the A\*02:76:01-02:76:02 alleles, the A\*02:79:01-02:79:02 alleles, the A\*02:97:01-02:97:02 alleles, the A\*02:101:01-02:101:02 alleles and the A\*02:171:01-02:171:02 alleles.

<sup>1</sup>HLA-A alleles listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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**ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
A*02:01:01:01	Confirmed	A*02:01:51	Confirmed	A*02:06:10	Unconfirmed	A*02:43N	Unconfirmed	A*02:88N	Unconfirmed
A*02:01:01:02L	Confirmed	A*02:01:52	Confirmed	A*02:06:11	Confirmed	A*02:44	Confirmed	A*02:89	Unconfirmed
A*02:01:01:03	Unconfirmed	A*02:01:53	Unconfirmed	A*02:06:12	Unconfirmed	A*02:45	Unconfirmed	A*02:90	Confirmed
A*02:01:02	Confirmed	A*02:01:54	Unconfirmed	A*02:06:13	Unconfirmed	A*02:46	Unconfirmed	A*02:91	Unconfirmed
A*02:01:03	Confirmed	A*02:01:55	Unconfirmed	A*02:07:01	Confirmed	A*02:47	Unconfirmed	A*02:92	Unconfirmed
A*02:01:04	Confirmed	A*02:01:56	Unconfirmed	A*02:07:02	Unconfirmed	A*02:48	Confirmed	A*02:93	Confirmed
A*02:01:05	Unconfirmed	A*02:01:57	Unconfirmed	A*02:08	Confirmed	A*02:49	Confirmed	A*02:94N	Unconfirmed
A*02:01:06	Unconfirmed	A*02:01:58	Unconfirmed	A*02:09	Confirmed	A*02:50	Unconfirmed	A*02:95	Unconfirmed
A*02:01:07	Unconfirmed	A*02:01:59	Unconfirmed	A*02:10	Confirmed	A*02:51	Confirmed	A*02:96	Confirmed
A*02:01:08	Unconfirmed	A*02:01:60	Unconfirmed	A*02:11:01	Confirmed	A*02:52	Unconfirmed	A*02:97:01	Unconfirmed
A*02:01:09	Confirmed	A*02:01:61	Confirmed	A*02:11:02	Confirmed	A*02:53N	Confirmed	A*02:97:02	Unconfirmed
A*02:01:10	Unconfirmed	A*02:01:62	Unconfirmed	A*02:11:03	Unconfirmed	A*02:54	Confirmed	A*02:99	Unconfirmed
A*02:01:11	Unconfirmed	A*02:01:63	Unconfirmed	A*02:11:04	Unconfirmed	A*02:55	Confirmed	A*02:101:01	Unconfirmed
A*02:01:12	Unconfirmed	A*02:01:64	Unconfirmed	A*02:12	Confirmed	A*02:56:01	Unconfirmed	A*02:101:02	Confirmed
A*02:01:13	Unconfirmed	A*02:01:65	Unconfirmed	A*02:13	Confirmed	A*02:56:02	Unconfirmed	A*02:102	Confirmed
A*02:01:14Q	Confirmed	A*02:01:66	Unconfirmed	A*02:14	Confirmed	A*02:57	Unconfirmed	A*02:103	Unconfirmed
A*02:01:15	Unconfirmed	A*02:01:67	Unconfirmed	A*02:15N	Unconfirmed	A*02:58	Confirmed	A*02:104	Unconfirmed
A*02:01:17	Unconfirmed	A*02:01:68	Unconfirmed	A*02:16	Unconfirmed	A*02:59	Unconfirmed	A*02:105	Confirmed
A*02:01:18	Confirmed	A*02:01:69	Unconfirmed	A*02:17:01	Confirmed	A*02:60:01	Confirmed	A*02:106	Unconfirmed
A*02:01:19	Unconfirmed	A*02:01:70	Confirmed	A*02:17:02	Unconfirmed	A*02:60:02	Unconfirmed	A*02:107	Unconfirmed
A*02:01:21	Unconfirmed	A*02:01:71	Unconfirmed	A*02:18	Unconfirmed	A*02:61	Confirmed	A*02:108	Unconfirmed
A*02:01:22	Confirmed	A*02:01:72	Unconfirmed	A*02:19	Unconfirmed	A*02:62	Unconfirmed	A*02:109	Unconfirmed
A*02:01:23	Confirmed	A*02:01:73	Unconfirmed	A*02:20:01	Confirmed	A*02:63	Unconfirmed	A*02:110	Confirmed
A*02:01:24	Confirmed	A*02:01:74	Unconfirmed	A*02:20:02	Unconfirmed	A*02:64	Confirmed	A*02:111	Unconfirmed
A*02:01:25	Confirmed	A*02:01:75	Unconfirmed	A*02:21	Unconfirmed	A*02:65	Unconfirmed	A*02:112	Unconfirmed
A*02:01:26	Confirmed	A*02:01:76	Unconfirmed	A*02:22:01	Confirmed	A*02:66	Unconfirmed	A*02:113N	Confirmed
A*02:01:27	Confirmed	A*02:01:77	Unconfirmed	A*02:22:02	Unconfirmed	A*02:67	Unconfirmed	A*02:114	Confirmed
A*02:01:28	Unconfirmed	A*02:01:78	Unconfirmed	A*02:24:01	Confirmed	A*02:68	Unconfirmed	A*02:115	Unconfirmed
A*02:01:29	Confirmed	A*02:01:79	Unconfirmed	A*02:24:02	Unconfirmed	A*02:69	Unconfirmed	A*02:116	Unconfirmed
A*02:01:30	Confirmed	A*02:01:80	Unconfirmed	A*02:25	Confirmed	A*02:70	Unconfirmed	A*02:117	Unconfirmed
A*02:01:31	Confirmed	A*02:02	Confirmed	A*02:26	Unconfirmed	A*02:71	Unconfirmed	A*02:118	Confirmed
A*02:01:32	Confirmed	A*02:03:01	Confirmed	A*02:27	Confirmed	A*02:72	Unconfirmed	A*02:119	Confirmed
A*02:01:33	Unconfirmed	A*02:03:02	Unconfirmed	A*02:28	Confirmed	A*02:73	Unconfirmed	A*02:120	Unconfirmed
A*02:01:34	Confirmed	A*02:03:03	Confirmed	A*02:29	Confirmed	A*02:74:01	Unconfirmed	A*02:121	Confirmed
A*02:01:35	Confirmed	A*02:03:04	Unconfirmed	A*02:30	Confirmed	A*02:74:02	Unconfirmed	A*02:122	Confirmed
A*02:01:36	Confirmed	A*02:04	Confirmed	A*02:31	Unconfirmed	A*02:75	Unconfirmed	A*02:123	Confirmed
A*02:01:37	Confirmed	A*02:05:01	Confirmed	A*02:32N	Unconfirmed	A*02:76:01	Confirmed	A*02:124	Unconfirmed
A*02:01:38	Confirmed	A*02:05:02	Confirmed	A*02:33	Confirmed	A*02:76:02	Unconfirmed	A*02:125N	Confirmed
A*02:01:39	Confirmed	A*02:05:03	Unconfirmed	A*02:34	Unconfirmed	A*02:77	Confirmed	A*02:126	Unconfirmed
A*02:01:40	Confirmed	A*02:05:04	Confirmed	A*02:35:01	Confirmed	A*02:78	Unconfirmed	A*02:127	Unconfirmed
A*02:01:41	Unconfirmed	A*02:05:05	Unconfirmed	A*02:35:02	Unconfirmed	A*02:79:01	Unconfirmed	A*02:128	Confirmed
A*02:01:42	Confirmed	A*02:06:01	Confirmed	A*02:35:03	Unconfirmed	A*02:79:02	Unconfirmed	A*02:129	Confirmed
A*02:01:43	Confirmed	A*02:06:02	Unconfirmed	A*02:36	Confirmed	A*02:80	Confirmed	A*02:130	Unconfirmed
A*02:01:44	Unconfirmed	A*02:06:03	Unconfirmed	A*02:37	Unconfirmed	A*02:81	Unconfirmed	A*02:131	Confirmed
A*02:01:45	Confirmed	A*02:06:04	Unconfirmed	A*02:38	Confirmed	A*02:82N	Confirmed	A*02:132	Unconfirmed
A*02:01:46	Confirmed	A*02:06:05	Confirmed	A*02:39	Confirmed	A*02:83N	Unconfirmed	A*02:133	Confirmed
A*02:01:47	Confirmed	A*02:06:06	Unconfirmed	A*02:40:01	Confirmed	A*02:84	Confirmed	A*02:134	Unconfirmed
A*02:01:48	Unconfirmed	A*02:06:07	Unconfirmed	A*02:40:02	Unconfirmed	A*02:85	Confirmed	A*02:135	Unconfirmed
A*02:01:49	Confirmed	A*02:06:08	Confirmed	A*02:41	Confirmed	A*02:86	Confirmed	A*02:136	Confirmed
A*02:01:50	Confirmed	A*02:06:09	Unconfirmed	A*02:42	Confirmed	A*02:87	Confirmed	A*02:137	Unconfirmed



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Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
A*02:138	Unconfirmed	A*02:187	Unconfirmed	<b>A*02:235</b>	<b>Confirmed</b>	A*02:285	Unconfirmed	A*02:335	Unconfirmed
<b>A*02:139</b>	<b>Confirmed</b>	<b>A*02:188</b>	<b>Confirmed</b>	A*02:236	Unconfirmed	A*02:286	Unconfirmed	A*02:336	Unconfirmed
A*02:140	Unconfirmed	<b>A*02:189</b>	<b>Confirmed</b>	<b>A*02:237</b>	<b>Confirmed</b>	A*02:287	Unconfirmed	A*02:337	Unconfirmed
<b>A*02:141</b>	<b>Confirmed</b>	<b>A*02:190</b>	<b>Confirmed</b>	A*02:238	Unconfirmed	A*02:288	Unconfirmed	<b>A*02:338</b>	<b>Confirmed</b>
A*02:142	Unconfirmed	A*02:191	Unconfirmed	A*02:239	Unconfirmed	<b>A*02:289</b>	<b>Confirmed</b>	A*02:339	Unconfirmed
A*02:143	Unconfirmed	A*02:192	Unconfirmed	A*02:240	Unconfirmed	A*02:290	Unconfirmed	A*02:340	Unconfirmed
A*02:144	Unconfirmed	A*02:193	Unconfirmed	A*02:241	Unconfirmed	<b>A*02:291</b>	<b>Confirmed</b>	A*02:341	Unconfirmed
A*02:145	Unconfirmed	<b>A*02:194</b>	<b>Confirmed</b>	<b>A*02:242</b>	<b>Confirmed</b>	A*02:292	Unconfirmed	A*02:342	Unconfirmed
<b>A*02:146</b>	<b>Confirmed</b>	A*02:195	Unconfirmed	A*02:243	Unconfirmed	A*02:293Q	Unconfirmed	A*02:343	Unconfirmed
<b>A*02:147</b>	<b>Confirmed</b>	A*02:196	Unconfirmed	A*02:244	Unconfirmed	A*02:294	Unconfirmed	A*02:344	Unconfirmed
A*02:148	Unconfirmed	<b>A*02:197</b>	<b>Confirmed</b>	<b>A*02:245</b>	<b>Confirmed</b>	A*02:295	Unconfirmed	A*02:345	Unconfirmed
<b>A*02:149</b>	<b>Confirmed</b>	<b>A*02:198</b>	<b>Confirmed</b>	A*02:246	Unconfirmed	A*02:296	Unconfirmed	A*02:346	Unconfirmed
A*02:150	Unconfirmed	<b>A*02:199</b>	<b>Confirmed</b>	A*02:247	Unconfirmed	A*02:297	Unconfirmed	A*02:347	Unconfirmed
<b>A*02:151</b>	<b>Confirmed</b>	<b>A*02:200</b>	<b>Confirmed</b>	A*02:248	Unconfirmed	A*02:298	Unconfirmed	A*02:348	Unconfirmed
A*02:152	Unconfirmed	A*02:201	Unconfirmed	A*02:249	Unconfirmed	<b>A*02:299</b>	<b>Confirmed</b>	A*02:349	Unconfirmed
<b>A*02:153</b>	<b>Confirmed</b>	<b>A*02:202</b>	<b>Confirmed</b>	A*02:250N	Unconfirmed	A*02:300	Unconfirmed	A*02:350N	Unconfirmed
<b>A*02:154</b>	<b>Confirmed</b>	<b>A*02:203</b>	<b>Confirmed</b>	<b>A*02:251</b>	<b>Confirmed</b>	A*02:301N	Unconfirmed	<b>A*02:351</b>	<b>Confirmed</b>
A*02:155	Unconfirmed	A*02:204	Unconfirmed	A*02:252	Unconfirmed	A*02:302	Unconfirmed	A*02:352	Unconfirmed
A*02:156	Unconfirmed	<b>A*02:205</b>	<b>Confirmed</b>	A*02:253	Unconfirmed	A*02:303	Unconfirmed	A*02:353	Unconfirmed
A*02:157	Unconfirmed	<b>A*02:206</b>	<b>Confirmed</b>	A*02:254	Unconfirmed	A*02:304	Unconfirmed	A*02:354	Unconfirmed
<b>A*02:158</b>	<b>Confirmed</b>	<b>A*02:207</b>	<b>Confirmed</b>	A*02:255	Unconfirmed	A*02:305N	Unconfirmed	A*02:355	Unconfirmed
A*02:159	Unconfirmed	A*02:208	Unconfirmed	A*02:256	Unconfirmed	A*02:306	Unconfirmed	A*02:356N	Unconfirmed
<b>A*02:160</b>	<b>Confirmed</b>	A*02:209	Unconfirmed	A*02:257	Unconfirmed	A*02:307	Unconfirmed	A*02:357	Unconfirmed
<b>A*02:161</b>	<b>Confirmed</b>	A*02:210	Unconfirmed	A*02:258	Unconfirmed	A*02:308	Unconfirmed	A*02:358	Unconfirmed
A*02:162	Unconfirmed	<b>A*02:211:01</b>	<b>Confirmed</b>	<b>A*02:259</b>	<b>Confirmed</b>	A*02:309	Unconfirmed	A*02:359	Unconfirmed
<b>A*02:163</b>	<b>Confirmed</b>	A*02:211:02	Unconfirmed	<b>A*02:260</b>	<b>Confirmed</b>	A*02:310	Unconfirmed	A*02:360	Unconfirmed
<b>A*02:164</b>	<b>Confirmed</b>	A*02:212	Unconfirmed	A*02:261	Unconfirmed	A*02:311	Unconfirmed	A*02:361	Unconfirmed
<b>A*02:165</b>	<b>Confirmed</b>	<b>A*02:213</b>	<b>Confirmed</b>	A*02:262	Unconfirmed	A*02:312	Unconfirmed	A*02:362	Unconfirmed
<b>A*02:166</b>	<b>Confirmed</b>	<b>A*02:214</b>	<b>Confirmed</b>	<b>A*02:263</b>	<b>Confirmed</b>	A*02:313	Unconfirmed	A*02:363	Unconfirmed
A*02:167	Unconfirmed	<b>A*02:215</b>	<b>Confirmed</b>	A*02:264	Unconfirmed	A*02:314N	Unconfirmed	A*02:364	Unconfirmed
A*02:168	Unconfirmed	A*02:216	Unconfirmed	A*02:265	Unconfirmed	<b>A*02:315</b>	<b>Confirmed</b>	A*02:365	Unconfirmed
<b>A*02:169</b>	<b>Confirmed</b>	A*02:217:01	Unconfirmed	A*02:266	Unconfirmed	A*02:316	Unconfirmed	A*02:366N	Unconfirmed
A*02:170	Unconfirmed	A*02:217:02	Unconfirmed	<b>A*02:267</b>	<b>Confirmed</b>	A*02:317	Unconfirmed	<b>A*02:367</b>	<b>Confirmed</b>
A*02:171:01	Unconfirmed	A*02:218	Unconfirmed	A*02:268	Unconfirmed	A*02:318	Unconfirmed	A*02:368	Unconfirmed
A*02:171:02	Unconfirmed	A*02:219	Unconfirmed	<b>A*02:269</b>	<b>Confirmed</b>	A*02:319	Unconfirmed	A*02:369	Unconfirmed
<b>A*02:172</b>	<b>Confirmed</b>	A*02:220	Unconfirmed	A*02:270	Unconfirmed	A*02:320	Unconfirmed	A*02:370	Unconfirmed
<b>A*02:173</b>	<b>Confirmed</b>	<b>A*02:221</b>	<b>Confirmed</b>	A*02:271	Unconfirmed	A*02:321N	Unconfirmed	A*02:371	Unconfirmed
A*02:174	Unconfirmed	A*02:222N	Unconfirmed	A*02:272	Unconfirmed	A*02:322	Unconfirmed	A*02:372	Unconfirmed
A*02:175	Unconfirmed	A*02:223N	Unconfirmed	A*02:273	Unconfirmed	<b>A*02:323</b>	<b>Confirmed</b>	A*02:373N	Unconfirmed
A*02:176	Unconfirmed	A*02:224	Unconfirmed	A*02:274	Unconfirmed	A*02:324	Unconfirmed	A*02:374	Unconfirmed
<b>A*02:177</b>	<b>Confirmed</b>	A*02:225N	Unconfirmed	<b>A*02:275</b>	<b>Confirmed</b>	<b>A*02:325</b>	<b>Confirmed</b>		
A*02:178	Unconfirmed	A*02:226N	Unconfirmed	A*02:276	Unconfirmed	A*02:326	Unconfirmed		
A*02:179	Unconfirmed	<b>A*02:227N</b>	<b>Confirmed</b>	A*02:277	Unconfirmed	A*02:327	Unconfirmed		
<b>A*02:180</b>	<b>Confirmed</b>	<b>A*02:228</b>	<b>Confirmed</b>	A*02:278	Unconfirmed	A*02:328	Unconfirmed		
A*02:181	Unconfirmed	A*02:229	Unconfirmed	A*02:279	Unconfirmed	A*02:329	Unconfirmed		
<b>A*02:182</b>	<b>Confirmed</b>	<b>A*02:230</b>	<b>Confirmed</b>	A*02:280	Unconfirmed	<b>A*02:330</b>	<b>Confirmed</b>		
<b>A*02:183</b>	<b>Confirmed</b>	A*02:231	Unconfirmed	A*02:281	Unconfirmed	A*02:331	Unconfirmed		
A*02:184	Unconfirmed	A*02:232	Unconfirmed	A*02:282	Unconfirmed	A*02:332	Unconfirmed		
A*02:185	Unconfirmed	<b>A*02:233</b>	<b>Confirmed</b>	<b>A*02:283</b>	<b>Confirmed</b>	A*02:333	Unconfirmed		
<b>A*02:186</b>	<b>Confirmed</b>	A*02:234	Unconfirmed	A*02:284N	Unconfirmed	A*02:334	Unconfirmed		

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).



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Lot-specific information  
**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>8,77</sup>	360 bp	800 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:06:13, 02:08-02:09, 02:12-02:14, 02:16, 02:19-02:22:02, 02:24:01-02:32N, 02:34, 02:36-02:38, 02:40:01-02:46, 02:49-02:68, 02:70-02:77, 02:79:01-02:80, 02:82N-02:86, 02:88N-02:89, 02:91-02:97:02, 02:99, 02:101:01-02:102, 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, 02:149-02:190, 02:192-02:211:01, 02:212-02:218, 02:220-02:241, 02:243, 02:245-02:246, 02:248-02:249, 02:251-02:254, 02:256-02:260, 02:262-02:264, 02:266-02:267, 02:269-02:281, 02:283-02:296, 02:299, 02:301N-02:302, 02:304-02:307, 02:309-02:316, 02:318, 02:320-02:330, 02:332-02:334, 02:336-02:346, 02:348-02:350N, 02:352-02:360, 02:362-02:368, 02:370-02:374	*01:104, 03:09, 03:89, 03:108, 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, 30:44, 30:46, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06, 80:01 <sup>w</sup>
2	240 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, 02:07:01-02:07:02, 02:09, 02:12-02:13, 02:15N-02:20:02, 02:22:01-02:22:02, 02:24:01-02:27, 02:29-02:34, 02:36-02:40:02, 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, 02:62-02:68, 02:70-02:71, 02:73-02:75, 02:77, 02:80, 02:82N-02:83N, 02:85-02:86, 02:88N-02:89, 02:92-02:97:02, 02:101:01-02:105, 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,	*03:09, 03:89, 03:108, 74:06

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 101.412-24u/04u – without *Taq* polymerase, IFU-02

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			02:171:01-02:171:02, 02:173-02:177, 02:181-02:228, 02:230-02:231, 02:233- 02:242, 02:245-02:246, 02:249-02:258, 02:260-02:270, 02:272-02:277, 02:279- 02:285, 02:287-02:289, 02:291-02:294, 02:296, 02:299, 02:301N-02:307, 02:309, 02:311-02:318, 02:320-02:323, 02:325-02:327, 02:329, 02:332, 02:334-02:336, 02:338-02:343, 02:345- 02:354, 02:356N-02:357, 02:360- 02:365, 02:367-02:372, 02:374	
<b>3<sup>6</sup></b>	175 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17- 02:01:19, 02:01:21-02:03:04, 02:05:01- 02:16, 02:18, 02:20:01-02:22:02, 02:24:01-02:38, 02:40:01-02:43N, 02:45-02:56:02, 02:58-02:64, 02:66- 02:78, 02:80-02:85, 02:87-02:97:02, 02:99, 02:101:01-02:107, 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, 02:195-02:223N, 02:225N-02:267, 02:269-02:299, 02:301N-02:302, 02:304-02:308, 02:310-02:333, 02:335-02:337, 02:339- 02:370, 02:372-02:374	*68:02:01:01-68:02:05, 68:15, 68:18N, 68:23, 68:27-68:28, 68:31, 68:34, 68:40, 68:48, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77- 68:78, 68:80-68:82, 68:86, 68:92, 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, 02:01:21-02:01:51, 02:01:53- 02:01:62, 02:01:64-02:01:73, 02:01:75- 02:01:80, 02:03:01-02:04, 02:06:01- 02:06:11, 02:06:13-02:07:02, 02:09- 02:13, 02:15N-02:22:02, 02:24:01- 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> , 02:79:01-02:97:02, 02:99, 02:101:01- 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, 02:196-02:204, 02:207-02:208, 02:210- 02:228, 02:230-02:231, 02:233-02:270, 02:272-02:285, 02:287-02:314N, 02:316-02:319, 02:322-02:323, 02:325- 02:336, 02:338-02:343, 02:345-02:358, 02:360-02:371, 02:374	*01:69:02 <sup>w</sup> , 03:01:03 <sup>w</sup> , 03:23:01, 03:89, 11:121, 26:07:02, 33:01:02, 33:08-33:09, 68:30, 74:04

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<b>5<sup>5</sup></b>	125 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:80, 02:04, 02:06:01-02:07:02, 02:09-02:11:04, 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, 02:101:01-02:101:02, 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, 02:192-02:208, 02:210-02:221, 02:223N-02:225N, 02:227N-02:228, 02:231, 02:233-02:252, 02:254-02:257, 02:259-02:263, 02:265-02:266, 02:268-02:270, 02:272-02:273, 02:275-02:279, 02:282-02:285, 02:287-02:308, 02:310-02:314N, 02:316-02:319, 02:321N-02:322, 02:325-02:336, 02:338-02:343, 02:346-02:354, 02:356N-02:358, 02:360-02:369, 02:371-02:372, 02:374	*03:17:01, 23:01:01-23:01:10, 23:04-23:54, 24:13:01-24:13:02, 24:18, 24:24, 24:94, 24:188, 24:207, 30:61, 32:28, 33:32:01, 68:08:01-68:08:02, 68:63, 69:01, <b>B*51:136, C*07:204</b>
<b>6<sup>5,6</sup></b>	75 bp	<b>800 bp</b>	*02:02-02:03:04, 02:05:01-02:05:05, 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, 02:209, 02:229-02:230, 02:232, 02:253, 02:258, 02:264, 02:267, 02:281, 02:286, 02:315, 02:320, 02:323-02:324, 02:337, 02:344-02:345, 02:355, 02:359, 02:370, 02:373N	*24:138, 68:01:01:01-68:01:13, 68:01:15-68:07, 68:10-68:25, 68:27-68:47, 68:49N, 68:51-68:62, 68:64-68:94N
<b>7<sup>7</sup></b>	175 bp	1070 bp	*02:02, 02:05:01-02:05:05, 02:08, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N	
<b>8<sup>11</sup></b>	415 bp, 505 bp	1070 bp	*02:02, 02:05:01-02:05:05, 02:14, 02:32N, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N	

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<b>9<sup>5</sup></b>	105 bp	1070 bp	*02:03:01, 02:03:02 <sup>w</sup> , 02:03:03-02:03:04, 02:25, 02:38, 02:117, 02:148, 02:171:01-02:171:02, 02:230, 02:253, 02:258, 02:264, 02:267, 02:280-02:281, 02:315, 02:345, 02:355, 02:370	*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> , 02:03:03-02:03:04, 02:13, 02:26, 02:38, 02:99, 02:117, 02:148, 02:171:01-02:171:02, 02:230, 02:253, 02:258, 02:264, 02:280-02:281, 02:315, 02:323, 02:345, 02:355, 02:370	*03:17:01, 24:18, 24:56, 24:177, 26:10, 68:42, 68:54, 68:61, 68:63, <b>B*51:136</b> , <b>C*12:37</b>
<b>11<sup>8,9,12</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, 02:268, 02:300, 02:303, 02:334	*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>13</sup></b>	195 bp, 235 bp	1070 bp	*02:05:01-02:06:13, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79:01-02:79:02, 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, 02:229, 02:232, 02:244, 02:248, 02:259, 02:271, 02:278, 02:286, 02:290, 02:295, 02:300, 02:310, 02:324, 02:328, 02:330, 02:333, 02:337, 02:344, 02:355, 02:358-02:359, 02:373N	*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>8</sup></b>	145 bp	<b>800 bp</b>	*02:05:01-02:05:05, 02:08, 02:14, 02:84, 02:154, 02:172, 02:179, 02:229, 02:232, 02:271, 02:286, 02:324, 02:337, 02:344, 02:359, 02:373N	
<b>14<sup>5,8,14</sup></b>	95 bp, 170 bp	<b>800 bp</b>	*02:07:01-02:07:02, 02:15N, 02:18, 02:91, 02:103, 02:112, 02:130, 02:191, 02:219, 02:255, 02:261, 02:265, 02:282, 02:319, 02:322, 02:335, 02:369	
<b>15<sup>5,8,15</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	
<b>16<sup>5,16</sup></b>	110 bp, 155 bp	<b>800 bp</b>	*02:09, 02:49-02:50, 02:73, 02:93, 02:122, 02:156, 02:172, 02:279	*11:119, 23:31, 23:45, 24:15, 24:41, 24:51, 24:92, 26:10, 32:28,

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Lot-specific information

			68:02:01:01-68:02:05, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60- 68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82, 68:86, 68:92, <b>B*44:136,</b> <b>B*51:136, C*07:204,</b> <b>C*12:37</b>
<b>17<sup>17</sup></b>	205 bp, 360 bp	1070 bp	*02:10, 02:17:01-02:17:02, 02:39, 02:83N, 02:108, 02:110, 02:148, 02:242, 02:244, 02:268, 02:300, 02:303
<b>18<sup>10</sup></b>	175 bp	1070 bp	*02:11:01, 02:11:03-02:11:04, 02:29, 02:69, 02:128, 02:297-02:298, 02:308
<b>19<sup>5,18</sup></b>	125 bp, 165 bp	1070 bp	*02:12-02:13, 02:19, 02:27, 02:37- 02:38, 02:44, 02:54, 02:142, 02:271, 02:280, 02:283
			*11:119, 24:02:01:01- 24:02:15, 24:02:17- 24:02:41, 24:02:43- 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, 24:95-24:106, 24:108-24:109, 24:111- 24:124, 24:126- 24:132N, 24:134- 24:137, 24:139-24:157, 24:159, 24:161-24:166, 24:168-24:187, 24:189- 24:203, 24:205-24:206, 24:209, 33:19, 68:09, 68:26
<b>20<sup>19</sup></b>	135 bp, 295 bp	1070 bp	*02:49, 02:200
<b>21<sup>20</sup></b>	220 bp, 255 bp	1070 bp	*02:15N, 02:291, 02:356N
<b>22</b>	160 bp	1070 bp	*02:19, 02:36-02:37, 02:54, 02:255
			*23:01:01-23:02, 23:05- 23:42, 23:44-23:54, 24:02:01:01-24:02:41, 24:02:43-24:02:59,

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				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- 24:109, 24:111-24:124, 24:126-24:137, 24:139- 24:157, 24:159-24:166, 24:168-24:203, 24:205- 24:206, 24:209, 33:19, 68:26, 68:65
<b>23</b> <sup>21</sup>	135 bp, 180 bp	<b>800 bp</b>	*02:17:01-02:17:02, 02:31, 02:108, 02:110, 02:161, 02:268, 02:300, 02:303	*24:94, 24:138, 24:188
<b>24</b> <sup>5,22</sup>	75 bp, 115 bp, 160 bp	1070 bp	*02:27, 02:230, 02:233	*11:119, 24:59, 24:190, <b>C*07:204</b>
<b>25</b> <sup>23</sup>	140 bp, 165 bp	1070 bp	*02:16, 02:131, 02:226N, 02:283	*24:55
<b>26</b> <sup>5,24</sup>	125 bp, 165 bp, 260 bp	<b>800 bp</b>	*02:33, 02:52, 02:198	
<b>27</b> <sup>5,25</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, 02:242, 02:244, 02:279, 02:282, 02:300, 02:304, 02:339	*03:123, 11:16, 11:35, 11:57, 11:73, 24:131, 24:138, 24:188, 30:13, 30:16, 30:44, 30:46, 68:01:01:01-68:11N, 68:13-68:48, 68:51- 68:94N
<b>28</b>	235 bp	<b>800 bp</b>	*02:08, 02:20:01-02:20:02, 02:55- 02:56:02, 02:62, 02:78, 02:103, 02:128, 02:169, 02:195	
<b>29</b> <sup>26</sup>	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> , 02:358, 02:369	
<b>30</b> <sup>27</sup>	130 bp, 160 bp	<b>800 bp</b>	*02:43N, 02:104, 02:163	
<b>31</b> <sup>5,6,28</sup>	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</b> <sup>29</sup>	205 bp, 230 bp, 255 bp	1070 bp	*02:46-02:48, 02:70, 02:129, 02:176	



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<b>33</b> <sup>7,8,30</sup>	230 bp, 325 bp	1070 bp	*02:19, 02:36-02:37, 02:54, 02:165, 02:168, 02:255	
<b>34</b> <sup>5,6,9,31</sup>	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	*30:01:01-30:01:07, 30:08, 30:11:01- 30:11:02, 30:14L- 30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:43, 30:48- 30:49, 30:52-30:56, 30:58-30:60, 30:62- 30:63, 30:65, 68:01:11
<b>35</b> <sup>5,8,32</sup>	110 bp, 155 bp	1070 bp	*02:40:01-02:40:02, 02:51, 02:77, 02:130	*23:01:01-23:01:10, 23:02 <sup>w</sup> , 23:04-23:23, 23:25-23:33, 23:35- 23:54, 24:24, 24:71, 32:28, 33:32:01, 68:51 <sup>w</sup>
<b>36</b> <sup>5,33</sup>	85 bp, 445 bp	1070 bp	*02:24:01-02:24:02, 02:65, 02:94N, 02:135, 02:137, 02:152, 02:309	*01:104, 03:09, 03:89, 03:108, 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, 30:44, 30:46, 32:08, 33:24, 74:06, 80:01 <sup>w</sup>
<b>37</b>	140 bp	1070 bp	*02:38, 02:68, 02:101:01-02:101:02, 02:154	*11:119, 23:10 <sup>w</sup> , 24:10, 24:46 <sup>w</sup> , 24:91, 26:10, 68:61
<b>38</b> <sup>5,34</sup>	125 bp, 225 bp	<b>800 bp</b>	*02:41, 02:80, 02:117, 02:289, 02:304, 02:351	
<b>39</b> <sup>5,6,7,35</sup>	75 bp, 160 bp, 200 bp	1070 bp	*02:18, 02:159, 02:170, 02:293Q, 02:364	*68:53, 68:79
<b>40</b> <sup>5,36</sup>	90 bp, 210 bp	1070 bp	*02:40:01-02:40:02, 02:51, 02:67, 02:130	*29:22, 33:22
<b>41</b> <sup>8</sup>	185 bp	1070 bp	*02:02, 02:05:01-02:05:05, 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, 02:154- 02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:300, 02:303, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N	*24:94, 24:138, 24:188
<b>42</b> <sup>7</sup>	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,

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				03:09-03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:58, 03:60-03:71, 03:73-03:87, 03:90-03:106, 03:109-03:141, 03:143-03:151, 30:55, 34:08, 68:71, 74:13
<b>43<sup>37</sup></b>	180 bp, 225 bp	<b>800 bp</b>	*02:03:01-02:03:04, 02:22:01-02:22:02, 02:49, 02:71, 02:104, 02:117, 02:136, 02:148, 02:191, 02:230, 02:253, 02:258, 02:264, 02:267, 02:281, 02:315, 02:323, 02:345, 02:355, 02:370	*26:22, 66:09, 68:83
<b>44<sup>5,38</sup></b>	125 bp, 155 bp, 205 bp	<b>800 bp</b>	*02:59, 02:203, 02:222N	
<b>45<sup>5,39</sup></b>	105 bp, 185 bp	1070 bp	*02:19, 02:39, 02:44, 02:60:01-02:60:02, 02:79:01-02:79:02, 02:86, 02:254	*01:20, 01:66, 03:95, 24:14, 24:93
<b>46<sup>5,7,8,40</sup></b>	70 bp, 150 bp, 205 bp	1070 bp	*02:61, 02:66, 02:181	
<b>47<sup>41</sup></b>	165 bp, 205 bp, 255 bp, 305 bp	<b>800 bp</b>	*02:35:01-02:35:03, 02:48, 02:63, 02:78, 02:90, 02:144, 02:205, 02:207, 02:331	
<b>48<sup>5</sup></b>	115 bp	1070 bp	*02:64, 02:177-02:178	
<b>49<sup>5,42</sup></b>	115 bp, 145 bp	1070 bp	*02:27, 02:38, 02:101:01-02:101:02, 02:154, 02:267	*11:119, 23:10 <sup>w</sup> , 24:10, 24:46 <sup>w</sup> , 24:59, 24:190, 26:10, 68:61, <b>C*07:204</b>
<b>50</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, 02:246, 02:279, 02:304	*01:104, 03:09, 03:89, 03:108, 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>	*02:76:01-02:76:02, 02:319	*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, 02:300, 02:303	*03:75, 23:01:01-23:01:10, 23:03:01-23:13, 23:14:02-23:33, 23:35-23:54, 24:13:01, 24:18, 24:24, 24:94, 24:188, 24:207, 29:07, 30:52, 31:29

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<b>54</b> <sup>7,8,43</sup>	240 bp, 350 bp	<b>800 bp</b>	*02:74:01-02:74:02, 02:189-02:190	
<b>55</b> <sup>6</sup>	200 bp	1070 bp	*02:13, 02:26, 02:30, 02:40:01- 02:40:02, 02:51, 02:99, 02:130, 02:226N, 02:323	*03:95, 29:22, 33:22
<b>56</b> <sup>44</sup>	150 bp, 275 bp	1070 bp	*02:53N, 02:81, 02:124, 02:175, 02:181	
<b>57</b> <sup>5,7,45</sup>	105 bp, 145 bp	1070 bp	*02:42, 02:160, 02:175, 02:310	
<b>58</b>	255 bp	<b>800 bp</b>	*02:11:01-02:11:04, 02:35:01- 02:35:03, 02:48, 02:69, 02:78, 02:90, 02:128, 02:297-02:298, 02:308, 02:331	
<b>59</b> <sup>8,46</sup>	145 bp, 190 bp	<b>800 bp</b>	*02:97:01-02:97:02, 02:305N	
<b>60</b> <sup>8</sup>	345 bp	1070 bp	*02:50, 02:65, 02:73, 02:122, 02:135, 02:152, 02:245, 02:334	*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>7,8</sup>	185 bp	1070 bp	*02:50, 02:73, 02:122, 02:156, 02:245, 02:334, 02:338	*03:123, 11:16, 11:35, 11:57, 11:73, 68:01:01:01-68:11N, 68:13-68:43, 68:45- 68:48, 68:51-68:82, 68:84-68:94N
<b>62</b>	180 bp	<b>800 bp</b>	*02:69, 02:179	*68:01:01:01-68:32, 68:34-68:94N
<b>63</b> <sup>5,47</sup>	95 bp, 160 bp	<b>800 bp</b>	*02:105, 02:259, 02:301N	*03:51, 30:37, 32:46
<b>64</b> <sup>5,48</sup>	125 bp, 175 bp, 260 bp	1070 bp	*02:106, 02:145, 02:164, 02:187, 02:221	*01:44, 03:44, 23:41, 24:72, 29:15
<b>65</b> <sup>49</sup>	145 bp, 185 bp, 250 bp	1070 bp	*02:107, 02:160, 02:202, 02:251	
<b>66</b>	170 bp	<b>800 bp</b>	*02:109	
<b>67</b> <sup>5,50</sup>	105bp, 130 bp, 180 bp, 300 bp	<b>800 bp</b>	*02:111, 02:177, 02:330, 02:350N	
<b>68</b> <sup>51</sup>	210 bp, 260 bp	1070 bp	*02:113N, 02:184, 02:321N	

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<b>69</b> <sup>52</sup>	170 bp, 225 bp, 335 bp	1070 bp	*02:114, 02:166, 02:246, 02:260, 02:279	
<b>70</b> <sup>5,53</sup>	125 bp, 180 bp, 285 bp	<b>800 bp</b>	*02:53N, 02:115, 02:192, 02:269, 02:367	
<b>71</b> <sup>8</sup>	260 bp	<b>800 bp</b>	*02:116	
<b>72</b> <sup>5,54</sup>	110 bp, 250 bp	1070 bp	*02:19, 02:44, 02:118, 02:135, 02:149, 02:152, 02:183, 02:189-02:190, 02:309	
<b>73</b> <sup>5,55</sup>	80 bp, 200 bp, 250 bp	<b>800 bp</b>	*02:119, 02:158, 02:263	
<b>74</b> <sup>56</sup>	175 bp, 250 bp	<b>800 bp</b>	*02:120, 02:187, 02:223N	
<b>75</b> <sup>5,8,57</sup>	100 bp, 165 bp, 205 bp	1070 bp	*02:121, 02:166, 02:373N	*23:47, 68:14, 68:49N, 68:81
<b>76</b> <sup>58</sup>	215 bp, 230 bp	<b>800 bp</b>	*02:50, 02:122, 02:143, 02:225N	
<b>77</b> <sup>5,59</sup>	85 bp, 110 bp	<b>800 bp</b>	*02:123, 02:162, 02:295	
<b>78</b> <sup>5,60</sup>	75 bp, 130 bp, 240 bp	1070 bp	*02:124, 02:193, 02:213	
<b>79</b> <sup>8,61</sup>	215 bp, 270 bp	1070 bp	*02:53N, 02:125N, 02:184, 02:192, 02:227N	
<b>80</b> <sup>5,62</sup>	90 bp, 135 bp, 230 bp	1070 bp	*02:126, 02:194, 02:214	
<b>81</b> <sup>5,7,63</sup>	110 bp, 235 bp, 315 bp	<b>800 bp</b>	*02:127, 02:165, 02:167, 02:183, 02:299	
<b>82</b> <sup>64</sup>	130 bp, 255 bp, 295 bp	1070 bp	*02:131, 02:199, 02:291	
<b>83</b> <sup>5,65</sup>	120 bp, 240 bp	<b>800 bp</b>	*02:132, 02:215, 02:237	*03:95
<b>84</b> <sup>7,66</sup>	180 bp, 205 bp, 245 bp	<b>800 bp</b>	*02:133, 02:164, 02:250N, 02:315	*01:44, 03:44
<b>85</b> <sup>67</sup>	170 bp, 260 bp	<b>800 bp</b>	*02:134, 02:314N	

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<b>86<sup>68</sup></b>	180 bp, 255 bp, 310 bp	<b>800 bp</b>	*02:135, 02:174, 02:228, 02:309	
<b>87<sup>69</sup></b>	155 bp, 210 bp	<b>800 bp</b>	*02:138, 02:284N	
<b>88<sup>70</sup></b>	135 bp, 240 bp	<b>800 bp</b>	*02:139, 02:188, 02:235	<b>B*15:67, B*35:110</b>
<b>89<sup>5,71</sup></b>	120 bp, 200 bp	<b>800 bp</b>	*02:140, 02:182, 02:227N	*24:133, 31:48, 33:15
<b>90<sup>5,72</sup></b>	100 bp, 130 bp, 190 bp	<b>800 bp</b>	*02:72, 02:141, 02:161, 02:206, 02:275	
<b>91<sup>5</sup></b>	110 bp	<b>800 bp</b>	*02:50, 02:73, 02:93, 02:122, 02:156, 02:162, 02:172, 02:211:01-02:211:02, 02:279	*11:119, 23:31, 23:45, 24:15, 24:41, 24:51, 24:92, 26:10, 32:28, 68:02:01:01-68:02:05, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60- 68:62, 68:64, 68:67, 68:74, 68:76-68:78, 68:80-68:82, 68:86, 68:92, <b>B*44:136,</b> <b>B*51:136, C*07:204,</b> <b>C*12:37</b>
<b>92<sup>73</sup></b>	180 bp, 260 bp	1070 bp	*02:146, 02:173	
<b>93<sup>74</sup></b>	130 bp, 250 bp, 295 bp	<b>800 bp</b>	*02:147, 02:157, 02:163, 02:339	*23:52, 24:73, 24:157, <b>B*15:173, B*18:63</b>
<b>94<sup>5,7,75</sup></b>	110 bp, 210 bp, 360 bp	<b>800 bp</b>	*02:150, 02:197, 02:325	
<b>95</b>	135 bp	<b>800 bp</b>	*02:52, 02:105, 02:147, 02:151, 02:188, 02:339	*68:06
<b>96<sup>7,76</sup></b>	135 bp, 255 bp	1070 bp	*02:153, 02:196, 02:366N	

<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 HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base

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pairs or less are not given. For high resolution SSP kits the respective lengths of the HLA-specific PCR product(s) are given for the alleles amplified by these primer mixes.

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

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

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

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

<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, 73, 74, 76, 77, 81, 83-91 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/or 4<sup>th</sup> exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

<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, 39 to 43, 45, 49, 51 to 53, 55, 60 to 64, 75, 83, 84, 89, 91, 93 and 95. In addition, the B\*15:67 and B\*35:110 alleles will be amplified by primer mix 88, the B\*15:173 and B\*18:63 alleles will be amplified by primer mix 93, the B\*44:136 allele will be amplified by primer mixes 16 and 91, the B\*51:136 allele will be amplified by primer mixes 5, 10, 16 and 91, the C\*07:204 allele will be amplified by primer mixes 5, 16, 24, 49 and 91 and the C\*12:37 allele will be amplified by primer mixes 10, 16 and 91.

<sup>5</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>6</sup>The specific primers in primer mixes 3, 6, 31, 34, 39 and 55 may give rise to a lower yield of HLA-specific PCR product than the other A\*02 primer mixes.

<sup>7</sup>Primer mixes 7, 33, 39, 42, 46, 54, 57, 61, 81, 84, 94 and 96 have a tendency to giving rise to primer oligomer formation.

<sup>8</sup>Primer mixes 1, 11, 13, 14, 15, 33, 35, 41, 46, 54, 59, 60, 61, 71, 75 and 79 may have tendencies of unspecific amplifications.

<sup>9</sup>Primer mixes 11 and 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>10</sup>Primer mix 18 may faintly amplify the C\*04:01:01:01-04:01:41 alleles.

<sup>11</sup>Primer mix 8: Specific PCR fragment of 415 bp in the A\*02:02, 02:05:01-02:05:05, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359 and 02:373N alleles. Specific PCR fragment of 505 bp in the A\*02:32N allele.

<sup>12</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, 02:108, 02:110, 02:152, 02:268, 02:300, 02:303 and 02:334 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.

<sup>13</sup>Primer mix 12: Specific PCR fragment of 195 bp in A\*02:85 allele. Specific PCR fragment of 235 bp in the A\*02:05:01-02:06:13, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79:01-02:79:02, 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, 02:178-02:180, 02:229, 02:232, 02:244, 02:248, 02:259, 02:271, 02:278, 02:286, 02:290, 02:295, 02:300, 02:310, 02:324, 02:328, 02:330,



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02:333, 02:337, 02:344, 02:355, 02:358-02:359 and 02:373N and the A\*11:06, 11:18, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 68:05, 68:15 and 68:20 alleles.

<sup>14</sup>Primer mix 14: Specific PCR fragment of 95 bp in A\*02:91 and 02:322 alleles. Specific PCR fragment of 170 bp in the A\*02:07:01-02:07:02, 02:15N, 02:18, 02:103, 02:112, 02:130, 02:191, 02:219, 02:255, 02:261, 02:265, 02:282, 02:319, 02:335 and 02:369 alleles.

<sup>15</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>16</sup>Primer mix 16: Specific PCR fragment of 110 bp in the A\*02:50, 02:73, 02:93, 02:122, 02:156, 02:172 and 02:279 and the A\*11:119, 23:31, 23:45, 24:15, 24:41, 24:51, 24:92, 26:10, 32:28, 68:02:01:01-68:02:05, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82, 68:86 and 68:92 and in the B\*44:136, B\*51:136, C\*07:204 and C\*12:37 alleles. Specific PCR fragment of 155 bp in the A\*02:09 and 02:49 alleles.

<sup>17</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, 02:148, 02:242, 02:244, 02:268, 02:300 and 02:303 and the A\*23:12, 24:28, 24:30, 24:42 and 24:89 alleles.

<sup>18</sup>Primer mix 19: Specific PCR fragment of 125 bp in the A\*02:12-02:13, 02:19, 02:27, 02:37-02:38, 02:44, 02:54, 02:142, 02:271 and 02:280 and the A\*11:119, 24:02:01:01-24:02:15, 24:02:17-24:02:41, 24:02:43-24:05, 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, 24:95-24:106, 24:108-24:109, 24:111-24:124, 24:126-24:132N, 24:134-24:137, 24:139-24:157, 24:159, 24:161-24:166, 24:168-24:187, 24:189-24:203, 24:205-24:206, 24:209, 33:19, 68:09 and 68:26 alleles. Specific PCR fragment of 165 bp in the A\*02:283 allele.

<sup>19</sup>Primer mix 20: Specific PCR fragment of 135 bp in the A\*02:200 allele. Specific PCR fragment of 295 bp in the A\*02:49 allele.

<sup>20</sup>Primer mix 21: Specific PCR fragment of 220 bp in the A\*02:15N and 02:356N alleles. Specific PCR fragment of 255 bp in the A\*02:291 allele.

<sup>21</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, 02:110, 02:268, 02:300 and 02:303 and the A\* 24:94, 24:138 and 24:188 alleles.

<sup>22</sup>Primer mix 24: Specific PCR fragment of 75 bp in the A\*02:230 allele. Specific PCR fragment of 115 bp in the A\*02:27 and the A\*11:119, 24:59 and 24:190 and in the C\*07:204 alleles. Specific PCR fragment of 160bp in the A\*02:233 allele.

<sup>23</sup>Primer mix 25: Specific PCR fragment of 140 bp in the A\*02:16, 02:131 and 02:226N and the A\*24:55 alleles. Specific PCR fragment of 165 bp in the A\*02:283 allele.

<sup>24</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>25</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, 30:16, 30:44 and 30:46 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, 02:242, 02:244, 02:279, 02:282, 02:300, 02:304 and 02:339 and the A\*03:123, 11:16, 11:35, 11:57, 11:73, 24:131, 24:138, 24:188, 68:01:01:01-68:11N, 68:13-68:48 and 68:51-68:94N alleles.

<sup>26</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>, 02:195<sup>W</sup>, 02:358 and 02:369 alleles. Specific PCR fragment of 300 bp in A\*02:180 allele.

<sup>27</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>28</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>29</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>30</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, 02:54 and 02:255 alleles.

<sup>31</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 and 02:103 and the A\*30:01:01-

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30:01:07, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:43, 30:48-30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 30:65 and 68:01:11 alleles.

<sup>32</sup>Primer mix 35: Specific PCR fragment of 110 bp in A\*02:40:01-02:40:02, 02:51 and 02:130 and the A\*23:01:01-23:01:10, 23:02w, 23:04-23:23, 23:25-23:33, 23:35-23:54, 24:24, 24:71, 32:28, 33:32:01 and 68:51<sup>w</sup> alleles. Specific PCR fragment of 155 bp in A\*02:77 allele.

<sup>33</sup>Primer mix 36: Specific PCR fragment of 85 bp in A\*02:94N allele. Specific PCR fragments of 445 bp in the A\*02:24:01-02:24:02, 02:65, 02:135, 02:137, 02:152 and 02:309 and the A\*01:104, 03:09, 03:89, 03:108, 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, 30:44, 30:46, 32:08, 33:24, 74:06 and 80:01<sup>w</sup> alleles.

<sup>34</sup>Primer mix 38: Specific PCR fragment of 125 bp in A\*02:41, 02:80, 02:117, 02:289 and 02:304 alleles. Specific PCR fragments of 225 bp in the A\*02:351 allele.

<sup>35</sup>Primer mix 39: Specific PCR fragment of 75 bp in the A\*02:18 and the A\*68:79 alleles. Specific PCR fragment of 160 bp in the A\*02:159 and 02:293Q and the A\*68:53 allele. Specific PCR fragment of 200 bp in the A\*02:170 and 02:364 alleles.

<sup>36</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\*02:40:01-02:40:02, 02:51 and 02:130 and the A\*29:22 and 33:22 alleles.

<sup>37</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\*02:03:01-02:03:04, 02:22:01-02:22:02, 02:49, 02:104, 02:117, 02:136, 02:148, 02:191, 02:230, 02:253, 02:258, 02:264, 02:267, 02:281, 02:315, 02:323, 02:345, 02:355 and 02:370 and the A\*26:22, 66:09 and 68:83 alleles.

<sup>38</sup>Primer mix 44: Specific PCR fragment of 125 bp in the A\*02:203 allele. Specific PCR fragment of 155 bp in the A\*02:59 allele. Specific PCR fragment of 205 bp in the A\*02:222N allele.

<sup>39</sup>Primer mix 45: Specific PCR fragment of 105 bp in the A\*02:60:01-02:60:02 and 02:254 alleles. Specific PCR fragment of 185 bp in the A\*02:19, 02:39, 02:44, 02:79:01-02:79:02 and 02:86 and the A\*01:20, 01:66, 03:95, 24:14 and 24:93 alleles.

<sup>40</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>41</sup>Primer mix 47: Specific PCR fragment of 165 bp in the A\*02:63 allele. Specific PCR fragment of 205 bp in the A\*02:144 and 02:205 alleles. Specific PCR fragment of 255 bp in the A\*02:35:01-02:35:03, 02:48, 02:78, 02:90 and 02:331 alleles. Specific PCR fragment of 305 bp in the A\*02:207 allele.

<sup>42</sup>Primer mix 49: Specific PCR fragment of 115 bp in the A\*02:27 and 02:267 and the A\*11:119, 24:59 and 24:190 and in the C\*07:204 allele. Specific PCR fragment of 145 bp in the A\*02:38, 02:101:01-02:101:02 and 02:154 and the A\*11:119, 23:10<sup>w</sup>, 24:10, 24:46<sup>w</sup>, 26:10 and 68:61 alleles.

<sup>43</sup>Primer mix 54: Specific PCR fragment of 240 bp in the A\*02:189 and 02:190 alleles. Specific PCR fragment of 350 bp in A\*02:74:01-02:74:02 alleles.

<sup>44</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>45</sup>Primer mix 57: Specific PCR fragment of 105 bp in the A\*02:42 and 02:310 alleles. Specific PCR fragment of 145 bp in A\*02:160 and 02:175 alleles.

<sup>46</sup>Primer mix 59: Specific PCR fragment of 145 bp in the A\*02:97:01-02:97:02 alleles. Specific PCR fragment of 190 bp in A\*02:305N allele.

<sup>47</sup>Primer mix 63: Specific PCR fragment of 95 bp in the A\*02:259 and the A\*03:51, 30:37 and 32:46 alleles. Specific PCR fragment of 160 bp in A\*02:105 and 02:301N alleles.

<sup>48</sup>Primer mix 64: Specific PCR fragment of 125 bp in the A\*02:106 and 02:145 and the A\*24:72 alleles. Specific PCR fragment of 175 bp in A\*02:164 and 02:221 and the A\*01:44, 03:44 23:41 and 29:15 alleles. Specific PCR fragment of 260 bp in A\*02:187 allele.

<sup>49</sup>Primer mix 65: Specific PCR fragment of 145 bp in the A\*02:160 and 02:251 alleles. Specific PCR fragment of 185 bp in A\*02:107 allele. Specific PCR fragment of 250 bp in A\*02:202 allele.

<sup>50</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. Specific PCR fragment of 180 bp in A\*02:330 allele. Specific PCR fragment of 300 bp in A\*02:350N allele.

<sup>51</sup>Primer mix 68: Specific PCR fragment of 210 bp in the A\*02:113N and 02:321N alleles. Specific PCR fragment of 260 bp in A\*02:184 allele.

<sup>52</sup>Primer mix 69: Specific PCR fragment of 170 bp in the A\*02:114, 02:246 and 02:279 alleles. Specific PCR fragment of 225 bp in A\*02:260 allele. Specific PCR fragment of 335 bp in A\*02:166 allele.

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- <sup>53</sup>Primer mix 70: Specific PCR fragment of 125 bp in the A\*02:115 allele. Specific PCR fragment of 180 bp in A\*02:367 allele. Specific PCR fragment of 285 bp in A\*02:53N, 02:192 and 02:269 alleles.
- <sup>54</sup>Primer mix 72: Specific PCR fragment of 110 bp in the A\*02:183 allele. Specific PCR fragment of 250 bp in the A\*02:19, 02:44, 02:118, 02:135, 02:149, 02:152, 02:189, 02:190 and 02:309 alleles.
- <sup>55</sup>Primer mix 73: Specific PCR fragment of 80 bp in the A\*02:263 allele. Specific PCR fragment of 200 bp in the A\*02:119 allele. Specific PCR fragment of 250 bp in A\*02:158 allele.
- <sup>56</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 and 02:223N alleles.
- <sup>57</sup>Primer mix 75: Specific PCR fragment of 100 bp in the A\*02:373N and the A\*68:49N alleles. 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\*23:47, 68:14 and 68:81 alleles.
- <sup>58</sup>Primer mix 76: Specific PCR fragment of 215 bp in the A\*02:225N allele. Specific PCR fragment of 230 bp in A\*02:50, 02:122 and 02:143 alleles.
- <sup>59</sup>Primer mix 77: Specific PCR fragment of 85 bp in the A\*02:123 and 02:295 alleles. Specific PCR fragment of 110 bp in the A\*02:162 allele.
- <sup>60</sup>Primer mix 78: Specific PCR fragment of 75 bp in the A\*02:193 allele. Specific PCR fragment of 130 bp in the A\*02:213 allele. Specific PCR fragment of 240 bp in the A\*02:124 allele.
- <sup>61</sup>Primer mix 79: Specific PCR fragment of 215 bp in the A\*02:125N and 02:227N alleles. Specific PCR fragment of 270 bp in A\*02:53N, 02:184 and 02:192 alleles.
- <sup>62</sup>Primer mix 80: Specific PCR fragment of 90 bp in the A\*02:214 allele. Specific PCR fragment of 135 bp in the A\*02:194 allele. Specific PCR fragment of 230 bp in A\*02:126 allele.
- <sup>63</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, 02:167 and 02:299 alleles.
- <sup>64</sup>Primer mix 82: Specific PCR fragment of 130 bp in the A\*02:131 allele. Specific PCR fragment of 255 bp in the A\*02:291 allele. Specific PCR fragment of 295 bp in the A\*02:199 allele.
- <sup>65</sup>Primer mix 83: Specific PCR fragment of 120 bp in the A\*02:132 and 02:215 allele. Specific PCR fragment of 240 bp in the A\*02:237 and the A\*03:95 alleles.
- <sup>66</sup>Primer mix 84: Specific PCR fragment of 180 bp in the A\*02:133 and 02:164 and the A\*01:44 and 03:44 alleles. Specific PCR fragment of 205 bp in the A\*02:315 allele. Specific PCR fragment of 245 bp in the A\*02:250N allele.
- <sup>67</sup>Primer mix 85: Specific PCR fragment of 170 bp in the A\*02:314N allele. Specific PCR fragment of 260 bp in the A\*02:134 allele.
- <sup>68</sup>Primer mix 86: Specific PCR fragment of 180 bp in the A\*02:135 and 02:309 alleles. Specific PCR fragment of 255 bp in the A\*02:174 allele. Specific PCR fragment of 310 bp in the A\*02:228 allele.
- <sup>69</sup>Primer mix 87: Specific PCR fragment of 155 bp in the A\*02:138 allele. Specific PCR fragment of 210 bp in the A\*02:284N allele.
- <sup>70</sup>Primer mix 88: Specific PCR fragment of 135 bp in the A\*02:188 and 02:235 and in the B\*15:67 and B\*35:110 alleles. Specific PCR fragment of 240 bp in the A\*02:139 allele.
- <sup>71</sup>Primer mix 89: Specific PCR fragment of 120 bp in the A\*02:140 and 02:182 and the A\*24:133, 31:48 and 33:15 alleles. Specific PCR fragment of 200 bp in the A\*02:227N allele.
- <sup>72</sup>Primer mix 90: Specific PCR fragment of 100 bp in the A\*02:72, 02:206 and 02:275 alleles. 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>73</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>74</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 02:339 and the A\*23:52, 24:73 and 24:157 and in the B\*15:173 and B\*18:63 alleles. Specific PCR fragment of 295 bp in the A\*02:157 allele.
- <sup>75</sup>Primer mix 94: Specific PCR fragment of 110 bp in the A\*02:325 allele. Specific PCR fragment of 210 bp in the A\*02:150 allele. Specific PCR fragment of 360 bp in A\*02:197 allele.
- <sup>76</sup>Primer mix 96: Specific PCR fragment of 135 bp in the A\*02:196 allele. Specific PCR fragment of 255 bp in A\*02:153 and 02:366N alleles.
- <sup>77</sup>Primer mix 1 may amplify the A\*02:07:01-02:07:02 alleles.  
'w', might be weakly amplified.











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Lot-specific information

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>2,3</sup>
																																					*02:06:01-02:06:11, 02:06:13, 02:248, 02:278, 02:290, 02:328, 02:333 *02:06:12											
																																					*02:07:01-02:07:02, 02:219, 02:261, 02:265, 02:335 *02:08											
																																					*02:09 *02:10, 02:244 *02:11:01, 02:11:03- 02:11:04, 02:297- 02:298, 02:308 *02:11:02											
																																					*02:12 *02:13 *02:14 *02:15N											
																																					*02:16 *02:17:01-02:17:02, 02:303 *02:18 *02:19											
																																					*02:20:01-02:20:02 *02:21 *02:22:01-02:22:02 *02:24:01-02:24:02											
																																					*02:25 *02:26 *02:27 *02:28											
																																					*02:29 *02:30 *02:31 *02:32N											
																																					*02:33 *02:34 *02:35:01 *02:35:02 *02:35:03											
																																					*02:36 *02:37 *02:38 *02:39											
																																					*02:40:01-02:40:02 *02:41 *02:42											
																																					*02:43N *02:44 *02:45 *02:46 *02:47											
																																					*02:48 *02:49 *02:50											
																																					*02:51 *02:52 *02:53N *02:54 *02:55											
																																					Well No. HLA-A allele <sup>2,3</sup>											

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 101.412-24u/04u – without Taq polymerase, IFU-02

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Lot-specific information

Well No.									1 1 1	1 1 1 1	1 1 1 2	2 2 2 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>2,3</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		
*02:56:01	+	+	+	W	+																			+	W	+	+			
*02:56:02	+	+	+		+																									
*02:57	+				+					+	+																			
*02:58	+	+	+	+	+																									
*02:59, 02:203	+	+	+	+	+																									
*02:60:01-02:60:02, 02:254	+	+	+	+	+																									
*02:61	+		+	+	+						+																			
*02:62	+	+	+	+	+																									
*02:63	+	+	+				+	+	+																					
*02:64	+	+	+	+	+																									
*02:65	+	+		+							+																			
*02:66	+	+	+	+	+																									
*02:67	+	+	+	+	+																									
*02:68	+	+	+	+	W																									
*02:69			+	+	+																									
*02:70	+	+	+	+	+																									
*02:71	+	+	+	+	+																									
*02:72	+		+	+	+																									
*02:73	+	+	+	+	+																									
*02:74:01-02:74:02	+	+	+	+	+																									
*02:75	+	+	+	+	+																									
*02:76:01-02:76:02	+		+	+	+																									
*02:77	+	+	+	+	+																									
*02:78			+	W	+																									
*02:79:01-02:79:02	+		+	+	+																									
*02:80	+	+	+	+	+																									
*02:81			+	+	+																									
*02:82N	+	+	+	+	+																									
*02:83N	+	+	+	+	+																									
*02:84	+		+	+	+																									
*02:85	+	+	+	+	+																									
*02:86	+	+		+	+																									
*02:87		+	+	+	+																									
*02:88N	+	+	+	+	+																									
*02:89	+	+	+	+	+																									
*02:90, 02:331			+	+	+																									
*02:91	+		+	+	+																									
*02:92	+	+	+	+	+																									
*02:93	+	+	+	+	+																									
*02:94N	+	+	+	+	+																									
*02:95	+	+	+	+	+																									
*02:96	+	+	+	+	+																									
*02:97:01-02:97:02, 02:305N	+	+	+	+	+																									
*02:99	+		+	+	+																									
*02:101:01-02:101:02	+	+	+	+	+																									
*02:102	+	+	+	+																										
*02:103	+	+		+	+																									
*02:104	+	+	+	+																										
*02:105	+	+	+	+	+																									
*02:106	+		+	+	+																									
*02:107, 02:202, 02:251 <sup>4</sup>	+	+	+	+	+																									
*02:108			+	+	+																									
*02:109	+	+	+	+	+																									
*02:110		+		+	+																									
*02:111, 02:350N <sup>5</sup>	+	+	+	+	+																									
*02:112			+	+	+																									
*02:113N	+	+	+	+	+																									
*02:114	+	+	+	+	+																									
Well No.									1 1 1	1 1 1 1	1 1 1 2	2 2 2 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>2,3</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		





101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 25R

Lot-specific information

Weil No.	1				5				1 1 1	1 1 1 1	1 1 1 2	2 2 2 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	4 4 4 4											
HLA-A allele <sup>2,3</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		
*02:115	+	+	+		+	+	+																							+
*02:116	+	+	+	+	+																									
*02:117	+	+	+	+	+				+	+																		+		
*02:118	+	+	+	+	+																									
*02:119, 02:263 <sup>6</sup>	+	+	+	+	+																									
*02:120, 02:223N <sup>7</sup>	+	+	+	+	+																									
*02:121	+	+	+	+	+																									
*02:122	+	+	+	+	+							+																		
*02:123	+	+	+	+	+																									
*02:124		+	+	+	+																									
*02:125N	+	+	+	+	+																									
*02:126	+	+	+	+	+							+																		
*02:127	+	+	+	+	+							+																		
*02:128		+	+	+	+																									
*02:129		+	+	+	+								+																	
*02:130	+	+	+	+	+								+																	
*02:131	+	+	+	+	+																									
*02:132, 02:215, 02:237 <sup>8</sup>	+	+	+	+	+																									
*02:133	+	+	+	+	+																									
*02:134, 02:314N <sup>9</sup>	+	+	+	+	+																									
*02:135	+	+	+	+	+																									
*02:136		+	+	+	+																									
*02:137	+	+	+	+	+							+																		
*02:138, 02:284N <sup>10</sup>	+	+	+	+	+																									
*02:139, 02:235 <sup>11</sup>	+	+	+	+	+																									
*02:140	+	+	+	+	+																									
*02:141, 02:275 <sup>12</sup>	+	+	+	+	+																									
*02:142	+	+	+	+	+							+																		
*02:143	+	+	+	+	+							+																		
*02:144	+	+	+	+	+							+																		
*02:145, 02:221	+	+	+	+	+																									
*02:146		+	+	+	+																									
*02:147	+	+	+	+	+																									
*02:148	+	+	+	+	+																									
*02:149	+	+	+	+	+																									
*02:150, 02:197, 02:325 <sup>13</sup>	+	+	+	+	+																									
*02:151	+	+	+	+	+																									
*02:152	+	+	+	+	+																									
*02:153, 02:196 <sup>14</sup>	+	+	+	+	+																									
*02:154	+	+	+	+	+																									
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*02:158	+	+	+	+	+																									
*02:159, 02:293Q, 02:364	+	+	+	+	+																									
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*02:162	+	+	+	+	+																									
*02:163	+	+	+	+	+																									
*02:164	+	+	+	+	+																									
*02:165	+	+	+	+	+																									
*02:166	+	+	+	+	+																									
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*02:168	+	+	+	+	+																									
*02:169	+	+	+	+	+																									
*02:170	+	+	+	+	+																									
Weil No.																														
HLA-A allele <sup>2,3</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		







101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **25R**

Lot-specific information

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>2,3</sup>
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																																*02:179																
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																																*02:227N																
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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>2,3</sup>

101.412-24/04 – including Taq polymerase, IFU-01  
101.412-24u/04u – without Taq polymerase, IFU-02

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Lot-specific information

Well No.									1 1 1 1	1 1 1 1	1 1 1 1 2	2 2 2 2	2 2 2 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>2,3</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		
*02:300				+							+																			
*02:301N	+	+	+	+	+																									
*02:304	+	+	+	+	+																									
*02:309	+	+	+																											
*02:310	+		+	+	+																									
*02:315	+	+	+		+				+	+																				
*02:317, 02:347, 02:361	+	+	+	+																										
*02:319	+	+	+	+																										
*02:321N	+	+	+	+																										
*02:322	+	+	+	+	+																									
*02:323	+	+	+	+		+			+																					
*02:330	+		+	+	+																									
*02:334	+	+	+	+					+																					
*02:338	+	+	+	+																										
*02:339	+	+	+	+	+											+														
*02:351	+	+	+	+	+																									
*02:355	+	+	+	+		+			+	+	+																			
*02:356N	+	+	+	+	+											+														
*02:366N	+		+	+	+																									
*02:369	+	+	+	+	+																									
*02:373N	+	+			+	+	+	+		+	+																			
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*01:20, 01:66																														
*01:44																														
*01:69:02				w																										
*01:104	+																													
*03:01:03				w																										
*03:09	+	+																												
*03:17:01				+					+																					
*03:23:01				+																										
*03:44																														
*03:51																														
*03:75																														
*03:89	+	+		+																										
*03:95																														
*03:108	+	+																												
*03:123																	+													
*11:06, 11:18	+									+																				
*11:16, 11:35, 11:57, 11:73																														
*11:119													+		+															
*11:121, 26:07:02, 33:01:02, 33:08-33:09, 74:04				+																										
Well No.									1 1 1 1	1 1 1 1	1 1 1 1 2	2 2 2 2	2 2 2 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>2,3</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		





101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 25R

Lot-specific information

Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	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>2,3</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				
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*23:02																																																				
*23:03:01-23:03:02, 29:07, 31:29																																																				
*23:04, 23:43					+																																															
*23:08N					+																																															
*23:10					+																																															
*23:12									+								+																																			
*23:14:01					+																																															
*23:24, 24:13:01					+																																															
*23:31, 23:45					+												+																																			
*23:34, 24:13:02					+																																															
*23:41					+																																															
*23:47					+																																															
*23:52					+																																															
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*24:02:16, 24:06, 24:54, 24:87, 24:107, 24:160																																																				
*24:03:01-24:03:02, 24:33, 24:75																																																				
*24:10																																																				
*24:14, 24:93																																																				
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*24:18					+																																															
*24:23																																																				
*24:28, 24:30, 24:42, 24:89																																																				
*24:46																																																				
Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	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>2,3</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				



101.412-24/04 – including *Taq* polymerase, IFU-01  
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 25R

Lot-specific information

Well No. HLA-A allele <sup>2,3</sup>	1 1 1			1 1 1			1 1 1 2			2 2 2 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										
	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
*24:55											+		+			+																						
*24:56, 24:177										+			+																									
*24:59, 24:190													+																									
*24:71													+																									
*24:72														+																								
*24:73, 24:157																																						
*24:91																																						+
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*24:99											+																											
*24:131																																						
*24:133																																						
*24:138							+																															+
*24:188							+																															+
*24:207							+																															
*25:11, 26:36																																						+
*26:03:01-26:03:02, 26:06, 26:21, 26:30												+																										+
*26:10										+	+																											+
*26:22, 66:09																																						+
*29:15																																						
*29:19, 32:08, 33:24																																						+
*29:22, 33:22																																						+
*30:01:01-30:01:07, 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, 30:35-30:36, 30:38-30:43, 30:48- 30:49, 30:53-30:54, 30:56, 30:58-30:60, 30:62-30:63, 30:65																																						+
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*30:16																																						+
*30:22																																						
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*30:52																																						+
*30:55																																						+
*30:61							+																															
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*32:28																																						+
*32:46																																						
*33:32:01																																						+
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*68:01:11																																						+
*68:01:14																																						+



101.412-24/04 – including *Taq* polymerase, IFU-01  
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

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>2,3</sup>																				
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				+																																																								*24:91								
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				+																																																												*24:188				
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																																																																				*26:22, 66:09
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																																																												*30:16								
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				+																																																												*30:37				
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																																																																				*32:46
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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>2,3</sup>																				



101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	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>2,3</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	4	4	4	4				
*68:02:01:01-68:02:05, 68:18N, 68:27-68:28, 68:31, 68:34, 68:40, 68:60, 68:62, 68:64, 68:67, 68:74, 68:77- 68:78, 68:80, 68:82, 68:86, 68:92																																																				
*68:05, 68:20	+										+	+																																								
*68:06																																																				
*68:08:01-68:08:02																																																				
*68:09																																																				
*68:12																																																				
*68:14																																																				
*68:15	+	+																																																		
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*68:79																																																				
*68:81																																																				
*68:83																																																				
*69:01																																																				
*74:06	+	+																																																		
*80:01	w																																																			
B*15:67, B*35:110																																																				
B*15:173, B*18:63																																																				
B*44:136																																																				
B*51:136																																																				
C*07:204																																																				
C*12:37																																																				
Well No.									1	1	1	1	1	1	1	1	1	1	2	2	2	2	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	4	4	4	4				

<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, 13-16, 23, 26, 28, 30, 31, 34, 38, 42-44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 73, 74, 76, 77, 81, 83-91 and 93-95 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 25R

Lot-specific information

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>2,3</sup>
																																																*68:02:01:01-68:02:05, 68:18N, 68:27-68:28, 68:31, 68:34, 68:40, 68:60, 68:62, 68:64, 68:67, 68:74, 68:77- 68:78, 68:80, 68:82, 68:86, 68:92 *68:05, 68:20 *68:06 *68:08:01-68:08:02
																																												*68:09 *68:12 *68:14 *68:15				
																																								*68:23 *68:25 *68:26 *68:30								
																																								*68:33 *68:42 *68:44 *68:48								
																																								*68:49N *68:50 *68:51 *68:53								
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																																								*68:71 *68:76 *68:79 *68:81								
																																								*68:83 *69:01 *74:06 *80:01								
																																								<i>B*15:67, B*35:110</i> <i>B*15:173, B*18:63</i> <i>B*44:136</i> <i>B*51:136</i>								
																																								<i>C*07:204</i> <i>C*12:37</i>								
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>

<sup>2</sup>The sequence of A\*020116 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\*02:22:01.  
 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>HLA-A\*02 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.9.0, July 2012.



101.412-24/04 – including *Taq* polymerase, IFU-01  
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**Lot No.: 25R****Lot-specific information**

<sup>4</sup>The A\*02:107, the 02:202 and the 02:251 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 65.

<sup>5</sup>The A\*02:111 and 02:350N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 67.

<sup>6</sup>The A\*02:119 and 02:263 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 73.

<sup>7</sup>The A\*02:120 and 02:223N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 74.

<sup>8</sup>The A\*02:132, the 02:215 and the 02:237 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 83.

<sup>9</sup>The A\*02:134 and 02:314N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 85.

<sup>10</sup>The A\*02:138 and 02:284N alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 87.

<sup>11</sup>The A\*02:139 and 02:235 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 88.

<sup>12</sup>The A\*02:141 and 02:275 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 90.

<sup>13</sup>The A\*02:150, the 02:197 and the 02:325 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 94.

<sup>14</sup>The A\*02:153 and 02:196 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 96.

<sup>15</sup>The A\*02:180 and 02:358 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 29.

<sup>16</sup>The A\*02:193 and 02:213 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 78.

<sup>17</sup>The A\*02:269 and 02:367 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 70.

<sup>18</sup>Primer mix 8: Specific PCR fragment of 415 bp in the A\*02:02, 02:05:01-02:05:05, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359 and 02:373N 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, 02:108, 02:110, 02:152, 02:268, 02:300, 02:303 and 02:334 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 12: Specific PCR fragment of 195 bp in A\*02:85 allele. Specific PCR fragment of 235 bp in the A\*02:05:01-02:06:13, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79:01-02:79:02, 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, 02:178-02:180, 02:229, 02:232, 02:244, 02:248, 02:259, 02:271, 02:278, 02:286, 02:290, 02:295, 02:300, 02:310, 02:324, 02:328, 02:330, 02:333, 02:337, 02:344, 02:355, 02:358-02:359 and 02:373N and the A\*11:06, 11:18, 26:03:01-26:03:02, 26:06, 26:21, 26:30, 68:05, 68:15 and 68:20 alleles.

Primer mix 14: Specific PCR fragment of 95 bp in A\*02:91 and 02:322 alleles. Specific PCR fragment of 170 bp in the A\*02:07:01-02:07:02, 02:15N, 02:18, 02:103, 02:112, 02:130, 02:191, 02:219, 02:255, 02:261, 02:265, 02:282, 02:319, 02:335 and 02:369 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, 02:172 and 02:279 and the A\*11:119, 23:31, 23:45, 24:15, 24:41, 24:51, 24:92, 26:10, 32:28, 68:02:01-01-68:02:05, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82, 68:86 and 68:92 and in the B\*44:136, B\*51:136, C\*07:204 and C\*12:37 alleles. Specific PCR fragment of 155 bp in the A\*02:09 and 02:49 alleles.

101.412-24/04 – including *Taq* polymerase, IFU-01  
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**Lot No.: 25R****Lot-specific information**

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, 02:148, 02:242, 02:244, 02:268, 02:300 and 02:303 and the A\*23:12, 24:28, 24:30, 24:42 and 24:89 alleles.

Primer mix 19: Specific PCR fragment of 125 bp in the A\*02:12-02:13, 02:19, 02:27, 02:37-02:38, 02:44, 02:54, 02:142, 02:271 and 02:280 and the A\*11:119, 24:02:01:01-24:02:15, 24:02:17-24:02:41, 24:02:43-24:05, 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, 24:95-24:106, 24:108-24:109, 24:111-24:124, 24:126-24:132N, 24:134-24:137, 24:139-24:157, 24:159, 24:161-24:166, 24:168-24:187, 24:189-24:203, 24:205-24:206, 24:209, 33:19, 68:09 and 68:26 alleles. Specific PCR fragment of 165 bp in the A\*02:283 allele.

Primer mix 20: Specific PCR fragment of 135 bp in the A\*02:200 allele. Specific PCR fragment of 295 bp in the A\*02:49 allele.

Primer mix 21: Specific PCR fragment of 220 bp in the A\*02:15N and 02:356N alleles. Specific PCR fragment of 255 bp in the A\*02:291 allele.

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, 02:110, 02:268, 02:300 and 02:303 and the A\* 24:94, 24:138 and 24:188 alleles.

Primer mix 24: Specific PCR fragment of 75 bp in the A\*02:230 allele. Specific PCR fragment of 115 bp in the A\*02:27 and the A\*11:119, 24:59 and 24:190 and in the C\*07:204 alleles. Specific PCR fragment of 160bp in the A\*02:233 allele.

Primer mix 25: Specific PCR fragment of 140 bp in the A\*02:16, 02:131 and 02:226N and the A\*24:55 alleles. Specific PCR fragment of 165 bp in the A\*02:283 allele.

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, 30:16, 30:44 and 30:46 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, 02:242, 02:244, 02:279, 02:282, 02:300, 02:304 and 02:339 and the A\*03:123, 11:16, 11:35, 11:57, 11:73, 24:131, 24:138, 24:188, 68:01:01:01-68:11N, 68:13-68:48 and 68:51-68:94N 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>, 02:195<sup>w</sup>, 02:358 and 02:369 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, 02:54 and 02:255 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 and 02:103 and the A\*30:01:01-30:01:07, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:43, 30:48-30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 30:65 and 68:01:11 alleles. <sup>31</sup>Primer mix 35:

Specific PCR fragment of 110 bp in A\*02:40:01-02:40:02, 02:51 and 02:130 and the A\*23:01:01-23:01:10, 23:02<sup>w</sup>, 23:04-23:23, 23:25-23:33, 23:35-23:54, 24:24, 24:71, 32:28, 33:32:01 and 68:51<sup>w</sup> 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\*02:24:01-02:24:02, 02:65, 02:135, 02:137, 02:152 and 02:309 and the A\*01:104, 03:09, 03:89, 03:108, 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, 30:44, 30:46, 32:08, 33:24, 74:06 and 80:01<sup>w</sup> alleles.

Primer mix 38: Specific PCR fragment of 125 bp in A\*02:41, 02:80, 02:117, 02:289 and 02:304 alleles. Specific PCR fragments of 225 bp in the A\*02:351 allele.

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Primer mix 39: Specific PCR fragment of 75 bp in the A\*02:18 and the A\*68:79 alleles. Specific PCR fragment of 160 bp in the A\*02:159 and 02:293Q and the A\*68:53 allele. Specific PCR fragment of 200 bp in the A\*02:170 and 02:364 alleles.

Primer mix 40: Specific PCR fragment of 90 bp in the A\*02:67 allele. Specific PCR fragment of 210 bp in the A\*02:40:01-02:40:02, 02:51 and 02:130 and 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\*02:03:01-02:03:04, 02:22:01-02:22:02, 02:49, 02:104, 02:117, 02:136, 02:148, 02:191, 02:230, 02:253, 02:258, 02:264, 02:267, 02:281, 02:315, 02:323, 02:345, 02:355 and 02:370 and the A\*26:22, 66:09 and 68:83 alleles.

Primer mix 44: Specific PCR fragment of 125 bp in the A\*02:203 allele. Specific PCR fragment of 155 bp in the A\*02:59 allele. Specific PCR fragment of 205 bp in the A\*02:222N allele.

Primer mix 45: Specific PCR fragment of 105 bp in the A\*02:60:01-02:60:02 and 02:254 alleles. Specific PCR fragment of 185 bp in the A\*02:19, 02:39, 02:44, 02:79:01-02:79:02 and 02:86 and the A\*01:20, 01:66, 03:95, 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 47: Specific PCR fragment of 165 bp in the A\*02:63 allele. Specific PCR fragment of 205 bp in the A\*02:144 and 02:205 alleles. Specific PCR fragment of 255 bp in the A\*02:35:01-02:35:03, 02:48, 02:78, 02:90 and 02:331 alleles. Specific PCR fragment of 305 bp in the A\*02:207 allele.

Primer mix 49: Specific PCR fragment of 115 bp in the A\*02:27 and 02:267 and the A\*11:119, 24:59 and 24:190 and in the C\*07:204 allele. Specific PCR fragment of 145 bp in the A\*02:38, 02:101:01-02:101:02 and 02:154 and the A\*11:119, 23:10<sup>w</sup>, 24:10, 24:46<sup>w</sup>, 26:10 and 68:61 alleles.

Primer mix 54: Specific PCR fragment of 240 bp in the A\*02:189 and 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 and 02:310 alleles. Specific PCR fragment of 145 bp in A\*02:160 and 02:175 alleles.

Primer mix 59: Specific PCR fragment of 145 bp in the A\*02:97:01-02:97:02 alleles. Specific PCR fragment of 190 bp in A\*02:305N allele.

Primer mix 63: Specific PCR fragment of 95 bp in the A\*02:259 and the A\*03:51, 30:37 and 32:46 alleles. Specific PCR fragment of 160 bp in A\*02:105 and 02:301N alleles.

Primer mix 64: Specific PCR fragment of 125 bp in the A\*02:106 and 02:145 and the A\*24:72 alleles. Specific PCR fragment of 175 bp in A\*02:164 and 02:221 and the A\*01:44, 03:44 23:41 and 29:15 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 and 02:251 alleles. Specific PCR fragment of 185 bp in A\*02:107 allele. Specific PCR fragment of 250 bp in A\*02:202 allele.

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. Specific PCR fragment of 180 bp in A\*02:330 allele. Specific PCR fragment of 300 bp in A\*02:350N allele.

Primer mix 68: Specific PCR fragment of 210 bp in the A\*02:113N and 02:321N alleles. 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, 02:246 and 02:279 alleles. Specific PCR fragment of 225 bp in A\*02:260 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 180 bp in A\*02:367 allele. Specific PCR fragment of 285 bp in A\*02:53N, 02:192 and 02:269 alleles.

Primer mix 72: Specific PCR fragment of 110 bp in the A\*02:183 allele. Specific PCR fragment of 250 bp in the A\*02:19, 02:44, 02:118, 02:135, 02:149, 02:152, 02:189, 02:190 and 02:309 alleles.

Primer mix 73: Specific PCR fragment of 80 bp in the A\*02:263 allele. 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 and 02:223N alleles.



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**Lot No.: 25R****Lot-specific information**

Primer mix 75: Specific PCR fragment of 100 bp in the A\*02:373N and the A\*68:49N alleles. 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\*23:47, 68:14 and 68:81 alleles.

Primer mix 76: Specific PCR fragment of 215 bp in the A\*02:225N allele. Specific PCR fragment of 230 bp in A\*02:50, 02:122 and 02:143 alleles.

Primer mix 77: Specific PCR fragment of 85 bp in the A\*02:123 and 02:295 alleles. 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 130 bp in the A\*02:213 allele. Specific PCR fragment of 240 bp in the A\*02:124 allele.

Primer mix 79: Specific PCR fragment of 215 bp in the A\*02:125N and 02:227N alleles. Specific PCR fragment of 270 bp in A\*02:53N, 02:184 and 02:192 alleles.

Primer mix 80: Specific PCR fragment of 90 bp in the A\*02:214 allele. 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, 02:167 and 02:299 alleles.

Primer mix 82: Specific PCR fragment of 130 bp in the A\*02:131 allele. Specific PCR fragment of 255 bp in the A\*02:291 allele. Specific PCR fragment of 295 bp in the A\*02:199 allele.

Primer mix 83: Specific PCR fragment of 120 bp in the A\*02:132 and 02:215 allele. Specific PCR fragment of 240 bp in the A\*02:237 and the A\*03:95 alleles.

Primer mix 84: Specific PCR fragment of 180 bp in the A\*02:133 and 02:164 and the A\*01:44 and 03:44 alleles. Specific PCR fragment of 205 bp in the A\*02:315 allele. Specific PCR fragment of 245 bp in the A\*02:250N allele.

Primer mix 85: Specific PCR fragment of 170 bp in the A\*02:314N allele. Specific PCR fragment of 260 bp in the A\*02:134 allele.

Primer mix 86: Specific PCR fragment of 180 bp in the A\*02:135 and 02:309 alleles. Specific PCR fragment of 255 bp in the A\*02:174 allele. Specific PCR fragment of 310 bp in the A\*02:228 allele.

Primer mix 87: Specific PCR fragment of 155 bp in the A\*02:138 allele. Specific PCR fragment of 210 bp in the A\*02:284N allele.

Primer mix 88: Specific PCR fragment of 135 bp in the A\*02:188 and 02:235 and in the B\*15:67 and B\*35:110 alleles. Specific PCR fragment of 240 bp in the A\*02:139 allele.

Primer mix 89: Specific PCR fragment of 120 bp in the A\*02:140 and 02:182 and the A\*24:133, 31:48 and 33:15 alleles. Specific PCR fragment of 200 bp in the A\*02:227N allele.

Primer mix 90: Specific PCR fragment of 100 bp in the A\*02:72, 02:206 and 02:275 alleles. 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 02:339 and the A\*23:52, 24:73 and 24:157 and in the B\*15:173 and B\*18:63 alleles. Specific PCR fragment of 295 bp in the A\*02:157 allele.

Primer mix 94: Specific PCR fragment of 110 bp in the A\*02:325 allele. 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 255 bp in A\*02:153 and 02:366N alleles.

'w', might be weakly amplified.

101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **25R**

Lot-specific information

## Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	360	240	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	81	362	200	453	506	402	270	453	453	292	98
	5'-CTC 3'	5'-CAg 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'
	292	102	362								648	362
	5'-CCC 3'	5'-ACA 3'	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'
	368		497	241			538	493			362	518
	5'-CAT 3'		5'-Tgg 3'	5'-CgC 3'			5'-CAA 3'	5'-CTA 3'			5'-TCA 3'	5'-CCA 3'
			497								831	
			5'-Tgg 3'								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	135	220	160	135	75
		170	265	155	360		165	295	255		180	115
			305									160
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	78	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'-TCT 3'	5'-gAA 3'	5'-AAA 3'	5'-Cgg 3'	5'-AAA 3'
	355	445		666	666			2 <sup>nd</sup>			205	
	5'-CCT 3'	5'-TCT 3'		5'-gAA 3'	5'-gAA 3'			5'-CCA 3'			5'-ggg 3'	
											368	
											5'-gTT 3'	
3'-primer(s) <sup>3</sup>	200	497	160	453	368	268	538	170	843	570	292	487
	5'-TCC 3'	5'-Tgg 3'	5'-gTT 3'	5'-TCT 3'	5'-CAA 3'	5'-TTg 3'	5'-CTg 3'	5'-Cgg 3'	5'-gTT 3'	5'-CCg 3'	5'-gTg 3'	5'-TgT 3'
	453		160	779	829	290	575	538	880		506	527
	5'-TCT 3'		5'-gTg 3'	5'-CTT 3'	5'-CTA 3'	5'-CAA 3'	5'-ggT 3'	5'-CCg 3'	5'-gAA 3'		5'-TgT 3'	5'-CCg 3'
			302									571
			5'-ggT 3'									5'-CCg 3'
			343									
			5'-A 3'									
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 25R

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product	140	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	800	1070	800	1070	800	800	1070	1070	800	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>	538	368	292	270	257	616	256	241	473	282	524	335
	5'-CTA 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'
	559	411	497	270	337	781	616	265	482	282	524	453
	5'-CTC 3'	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'-CAC 3'	5'-TCg 3'
	575	505				791		290	570	497	569	
	5'-ggT 3'	5'-gTA 3'				5'-AgT 3'		5'-gAC 3'	5'-CCg 3'	5'-Tgg 3'	5'-ACA 3'	
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product	140	125	75	90	185	225	180	125	105	70	165	115
		225	160	210			225	155	185	150	205	
			200					205		205	255	
											305	
Length of int. pos. control <sup>1</sup>	1070	800	1070	1070	1070	800	800	800	1070	1070	800	1070
5'-primer(s) <sup>2</sup>	453	98	453	355	355	98	355	125	355	78	78	419
	5'-AAA 3'	5'-CTT 3'	5'-AAA 3'	5'-CCg 3'	5'-CCC 3'	5'-CTT 3'	5'-CCg 3'	5'-CgA 3'	5'-CCg 3'	5'-TCT 3'	5'-TCT 3'	5'-gTC 3'
		414			692			157		746		431
		5'-CAg 3'			5'-gAA 3'			5'-TgA 3'		5'-gAT 3'		5'-CgC 3'
								451				
								5'-TgT 3'				
3'-primer(s) <sup>3</sup>	542	281	485	403	506	282	494	240	419	187	203	497
	5'-CTT 3'	5'-AgC 3'	5'-CCT 3'	5'-gCA 3'	5'-TgT 3'	5'-gAC 3'	5'-TCC 3'	5'-ggA 3'	5'-CgA 3'	5'-gTg 3'	5'-TCA 3'	5'-Tgg 3'
	559	497	564	524	831	282	539	616	497	241	242	
	5'-CCg 3'	5'-Tgg 3'	5'-ACC 3'	5'-CAC 3'	5'-TCC 3'	5'-gAC 3'	5'-TCC 3'	5'-CgT 3'	5'-TgA 3'	5'-CgC 3'	5'-CCA 3'	
	559		578	524						777	290	
	5'-CCT 3'		5'-Tgg 3'	5'-CAC 3'						5'-gCA 3'	5'-CAg 3'	
			613								340	
			5'-gCA 3'								5'-ggT 3'	
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.412-24/04 – including *Taq* polymerase, IFU-01  
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **25R**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product	115	145	410	185	225	240	200	150	105	255	145	345
	145					350		275	145		190	
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> I 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'
							355 5'-CCg 3'					
3'-primer(s) <sup>3</sup>	527 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'
	559 5'-CCg 3'					497 5'-Tgg 3'	517 5'-CgC 3'	187 5'-gTA 3'	184 5'-gCC 3'		768 5'-gTA 3'	
	559 5'-CCT 3'					595 5'-CCg 3'		302 5'-ggC 3'	187 5'-gTA 3'		814 5'-CA. 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	95	125	145	170	105	210	170	125	260	110
			160	175	185		130	260	225	180		250
				260	250		180		335	285		
							300					
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'	78 5'-TCT 3'	78 5'-TCT 3'	78 5'-TCT 3'	78 5'-TCT 3'	78 5'-TCT 3'	2 <sup>nd</sup> I 5'-CCA 3'
			427 5'-A.g 3'	484 5'-ACT 3'	355 5'-CCg 3'		406 5'-gCA 3'		2 <sup>nd</sup> I 5'-CCA 3'			
			485 5'-CAC 3'	484 5'-ACg 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'	218 5'-gCT 3'	244 5'-CTA 3'	263 5'-gTA 3'	164 5'-gCT 3'	298 5'-CAg 3'	353 5'-CgA 3'
					221 5'-ACA 3'		337 5'-CTA 3'	251 5'-CCT 3'	413 5'-gCC 3'	218 5'-gCC 3'		475 5'-CgA 3'
					456 5'-TCg 3'		497 5'-Tgg 3'	299 5'-CCT 3'	578 5'-TgT 3'	319 5'-gCT 3'		506 5'-TgC 3'
					565 5'-CAG 3'					326 5'-TgC 3'		
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

<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, 13-16, 23, 26, 28, 30, 31, 34, 38, 42-44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 73, 74, 76, 77, 81, 83-91 and 93-95 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

101.412-24/04 – including *Taq* polymerase, IFU-01  
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **25R**

Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	80	175	100	215	85	75	215	90	110	130	120	180
PCR product	200	250	165	230	110	130	270	135	235	255	240	205
	250		205			240		230	315	295		245
Length of int. pos. control <sup>1</sup>	800	800	1070	800	800	1070	1070	1070	800	1070	800	800
5'-primer(s) <sup>2</sup>	78	104	453	48	78	364	78	359	2 <sup>nd</sup> I	341	355	78
	5'-TCT <sup>3'</sup>	5'-ATA <sup>3'</sup>	5'-AAA <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-ggg <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-ggg <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-TCT <sup>3'</sup>
	520	395		441	385	417	453	404		666	808	484
	5'-CgT <sup>3'</sup>	5'-gCA <sup>3'</sup>		5'-TAA <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-CAC <sup>3'</sup>	5'-AAA <sup>3'</sup>	5'-CCC <sup>3'</sup>		5'-gAA <sup>3'</sup>	5'-CgA <sup>3'</sup>	5'-ACT <sup>3'</sup>
		415				666		666				
		5'-ACT <sup>3'</sup>				5'-gAA <sup>3'</sup>		5'-gAA <sup>3'</sup>				
3'-primer(s) <sup>3</sup>	239	240	514	106	121	453	260	453	353	355	442	221
	5'-gAT <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-CTA <sup>3'</sup>	5'-CAT <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-T.T <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-CgA <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-ACC <sup>3'</sup>
	289	616	578	616	453	866	299	853	482	755	555	241
	5'-AgC <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-TgT <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-AAA <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-CAT <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CgA <sup>3'</sup>
	559		616				319		553	880	868	284
	5'-CgT <sup>3'</sup>		5'-CgC <sup>3'</sup>				5'-gCT <sup>3'</sup>		5'-CTT <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-CAA <sup>3'</sup>	5'-g <sup>3'</sup>
							610		559			616
							5'-CTA <sup>3'</sup>		5'-CTT <sup>3'</sup>			5'-CgT <sup>3'</sup>
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.	170	180	155	135	120	100	110	180	130	110	135	135
PCR product	260	255	210	240	200	130		260	250	210		255
		310				190			295	360		
Length of int. pos. control <sup>1</sup>	800	800	800	800	800	800	800	1070	800	800	800	1070
5'-primer(s) <sup>2</sup>	411	2 <sup>nd</sup> I	78	78	453	143	379	78	364	124	412	78
	5'-TAg <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-AAA <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-ATg <sup>3'</sup>	5'-TCT <sup>3'</sup>
	666		392	419	652	205	379		409	223		355
	5'-gAA <sup>3'</sup>		5'-CTA <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-CTg <sup>3'</sup>	5'-ggg <sup>3'</sup>	5'-ACT <sup>3'</sup>		5'-ggC <sup>3'</sup>	5'-Cgg <sup>3'</sup>		5'-CCg <sup>3'</sup>
						235	385		529	2 <sup>nd</sup> I		
						5'-AgA <sup>3'</sup>	5'-ggC <sup>3'</sup>		5'-TgA <sup>3'</sup>	5'-CCA <sup>3'</sup>		
						244	385					
						5'-CgC <sup>3'</sup>	5'-ggA <sup>3'</sup>					
3'-primer(s) <sup>3</sup>	538	423	193	175	542	292	453	218	616	292	506	172
	5'-CAA <sup>3'</sup>	5'-TAA <sup>3'</sup>	5'-Cgg <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CTg <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-TgT <sup>3'</sup>	5'-CAT <sup>3'</sup>
	884	502	559	277	610			299		605		295
	5'-ggA <sup>3'</sup>	5'-CTg <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-CTA <sup>3'</sup>			5'-TCg <sup>3'</sup>		5'-gCA <sup>3'</sup>		5'-TCA <sup>3'</sup>
		557		506	727							565
		5'-TgT <sup>3'</sup>		5'-TgT <sup>3'</sup>	5'-CCA <sup>3'</sup>							5'-CAT <sup>3'</sup>
Well No.	85	86	87	88	89	90	91	92	93	94	95	96

<sup>2</sup>The nucleotide position, in the 5' untranslated region, 1<sup>st</sup>, 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.

101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **25R**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A*02 SSP subtyping kit																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Lot No.:	201206601	201203302	201206603	201190204	201190205	201190206	201190207	201190208	201190209	201190210	201190211	201190212	201206613	201190214	201190215	201203316
	IHCW 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	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-



101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **25R**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-A*02 SSP subtyping kit																					
				Lot No.:	Well																
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
					201190217	201206618	201206619	201206620	201206621	201190222	201190223	201206624	201206625	201190226	201190227	201190228	201190229	201190230	201190231	201190232	
	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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **25R**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A*02 SSP subtyping kit																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Lot No.:	201190233	201190234	201206635	201190236	201206637	201206638	201206639	201206640	201190241	201190242	201190243	201206644	201190245	201190246	201206647	201190248
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **25R**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*02 SSP subtyping kit																			
				Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				201206649	201190250	201190251	201190252	201190253	201190254	201206655	201190256	201190257	201190258	201206659	201190260	201190261	201190262	201206663	201206664
	IHWC cell line	A*	A*	Lot No.:															
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **25R**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A*02 SSP subtyping kit																				
				Well																
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
				Lot No.:	201206665	201190266	201206667	201206668	201206669	201206670	201190271	201190272	201206673	201206674	201206675	201206676	201190277	201206678	201206679	201206680
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **25R**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*02 SSP subtyping kit																			
				Well															
				81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
				201206681	201206682	201206683	201206684	201206685	201206686	201206687	201206688	201206689	201206690	201206691	201190292	201190293	201206694	201190295	201206696
	IHWC cell line	A*	A*	Lot No.:															
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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01  
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **25R**

Lot-specific information

## CERTIFICATE OF ANALYSIS

### Olerup SSP® HLA-A\*02 SSP

Product number: 101.412-24/04 – including *Taq* pol.  
 101.412-24u/04u – without *Taq* pol.

Lot number: 25R

Expiry date: 2015-May-01

Number of tests: 24 tests – Product No. 101.412-24/24u  
 4 tests – Product No. 101.412-04/04u

Number of wells per test: 96

#### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2012-066-01	33	2011-902-33	65	2012-066-65
2	2012-033-02	34	2011-902-34	66	2011-902-66
3	2012-066-03	35	2012-066-35	67	2012-066-67
4	2011-902-04	36	2011-902-36	68	2012-066-68
5	2011-902-05	37	2012-066-37	69	2012-066-69
6	2011-902-06	38	2012-066-38	70	2012-066-70
7	2011-902-07	39	2012-066-39	71	2011-902-71
8	2011-902-08	40	2012-066-40	72	2011-902-72
9	2011-902-09	41	2011-902-41	73	2012-066-73
10	2011-902-10	42	2011-902-42	74	2012-066-74
11	2011-902-11	43	2011-902-43	75	2012-066-75
12	2011-902-12	44	2012-066-44	76	2012-066-76
13	2012-066-13	45	2011-902-45	77	2011-902-77
14	2011-902-14	46	2011-902-46	78	2012-066-78
15	2011-902-15	47	2012-066-47	79	2012-066-79
16	2012-033-16	48	2011-902-48	80	2012-066-80
17	2011-902-17	49	2012-066-49	81	2012-066-81
18	2012-066-18	50	2011-902-50	82	2012-066-82
19	2012-066-19	51	2011-902-51	83	2012-066-83
20	2012-066-20	52	2011-902-52	84	2012-066-84
21	2012-066-21	53	2011-902-53	85	2012-066-85
22	2011-902-22	54	2011-902-54	86	2012-066-86
23	2011-902-23	55	2012-066-55	87	2012-066-87
24	2012-066-24	56	2011-902-56	88	2012-066-88
25	2012-066-25	57	2011-902-57	89	2012-066-89
26	2011-902-26	58	2011-902-58	90	2012-066-90
27	2011-902-27	59	2012-066-59	91	2012-066-91
28	2011-902-28	60	2011-902-60	92	2011-902-92
29	2011-902-29	61	2011-902-61	93	2011-902-93
30	2011-902-30	62	2011-902-62	94	2012-066-94
31	2011-902-31	63	2012-066-63	95	2011-902-95
32	2011-902-32	64	2012-066-64	96	2012-066-96

101.412-24/04 – including *Taq* polymerase, IFU-01  
101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **25R**

**Lot-specific information**

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, 38, 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, 38, 40, 46, 47, 52, 56, 57, 63, 65, 67, 69, 72, 73, 76 to 78, 80, 82 to 88 and 92 to 95 were tested by separately adding additional 5'-primers respectively 3'-primers.

In primer solutions 21, 24, 29, 54, 59, 68, 70, 71, 79, 81, 89 and 96 it was only possible to test the 5'-primer, the 3'-primer were not possible to test.

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

In primer solution 50 neither the 5'-primers nor the 3'-primers were possible to test.

In primer solutions 3, 4, 8, 12, 15, 17 to 20, 25, 26, 28, 30, 32, 33, 35 to 40, 43, 45 to 47, 49, 56, 57, 65, 67, 69, 72, 73, 75 to 78, 80, 82 to 88, 92 and 94 one or several of the 3'-primers were not possible to test.

In primer solutions 11, 13, 14, 23, 30, 34, 38, 41, 46, 63, 67, 73, 76 to 78, 80, 82 to 85, 87, 91, 93 and 94 one or more of the 5'-primers were not possible to test.

Additional primers in primer solutions 10 to 13, 17, 23, 27, 31, 34, 35, 41, 49 and 91 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:** 2012-December-07

**Approved by:**

**Production Quality Control**



101.412-24/04 – including *Taq* polymerase, IFU-01  
101.412-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **25R**

Lot-specific information

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-A\*02  
**Product number:** 101.412-24/24u, -04/04u  
**Lot number:** 25R

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

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

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

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

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

Stockholm, Sweden  
2014-September-02

Daniel Malica  
Head of QA and Regulatory Affairs

101.412-24/04 – including *Taq* polymerase, IFU-01  
101.412-24u/04u – without *Taq* polymerase, IFU-02

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