

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **6F4**

Lot-specific Information  
**Olerup SSP<sup>®</sup> HLA-A\*03**

<b>Product number:</b>	101.413-24/04 – including <i>Taq</i> pol. 101.413-24u/04u – without <i>Taq</i> pol.
<b>Lot number:</b>	6F4
<b>Expiry date:</b>	2020-04-01
<b>Number of tests:</b>	24 tests – Product No. 101.413-24/24u 4 tests – Product No. 101.413-04/04u
<b>Number of wells per test:</b>	63+1
<b>Storage - pre-aliquoted primers:</b>	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

**This Product Description is only valid for Lot No. 6F4.**

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup>  
HLA-A\*03 LOT (6D5)**

The HLA-A\*03 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 format of the Worksheet has been changed.

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

The HLA-A\*03 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP<sup>®</sup>* HLA-A\*03 lot was made (**Lot No. 6D5**). The kit design is based on IMGT/HLA database 3.28.0.

**101.413-24/04 – including Taq polymerase, IFU-01**  
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**Lot-specific Information**

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

<b>Well</b>	<b>5'-primer</b>	<b>3'-primer</b>	<b>rationale</b>
13	Added	Added	Primer pair added for the A*03:157:01 allele.
15	Added	-	5'-primer added for the A*03:245 allele.
17	-	Modified	3'-primer modified for decreased tendency of primer oligomer formation.
18	-	Added	3'-primer added for the A*03:266N allele.
19	Added	-	5'-primer added for the A*03:145:02 allele.
20	Added	Added	Primer pair added for the A*03:157:01 allele.
23	Added	-	5'-primer added for the A*03:238 allele.
27	Added	-	5'-primers added for the A*03:245 and A*03:251 alleles.
28	Exchanged, added	Exchanged	Primer pair exchanged for the A*11:77 and A*11:126 alleles, 5'-primer added for the A*03:269N allele.
31	Added	-	5'-primer added for the A*03:262N allele.
42	Added	-	5'-primers added for the A*03:238 and A*03:269N alleles.
49	Added	-	5'-primer added for the A*03:251 allele.
50	Added	-	5'-primers added for the A*03:145:02 and A*03:262N alleles.
52	-	Added	3'-primer added for the A*03:275N allele.
53	Added	Added	Primer pair added for the A*03:242 allele.
54	-	Added	3'-primer added for the A*03:195 allele.
55	Added	Moved, added	3'-primers moved to wells 57 and 60, primer pair added for the A*03:07:01-03:07:02 alleles.
56	-	Added	3'-primer added for the A*03:275N allele.
57	Added	-	5'-primer added from well 55.
58	-	Added	3'-primer added for the A*03:266N allele.
59	-	Added	3'-primer added for the A*03:195 allele.
60	Added	-	5'-primer added from well 55.

Change in revision R01 compared to R00:

1. Primer mix 29 amplifies the A\*03:29 and the A\*68:40 and 68:85 alleles. Thus, this lot of the A\*03 subtyping kit cannot distinguish the A\*03:29 and A\*03:67 alleles. This has been corrected in the Specificity and Interpretation Tables.

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Lot-specific Information

Well **64** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP*<sup>®</sup> HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.

The PCR product generated by the positive control primer pair is 430 base pairs.

Length of PCR product	105	200	105	80	75	80	85
<b>5'-primer<sup>1</sup></b>	<b>164</b>	<b>340</b>	<b>440</b>	<b>45</b>	<b>45</b>	<b>43</b>	<b>36</b>
	5'-CAC <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-TAC <sup>3'</sup>
							36
							5'-TAT <sup>3'</sup>
<b>3'-primer<sup>2</sup></b>	<b>231</b>	<b>2<sup>nd</sup> I</b>	<b>507</b>	<b>59</b>	<b>58</b>	<b>57</b>	<b>47</b>
	5'-TgC <sup>3'</sup>	5'-AAA <sup>3'</sup>	5'-TTg <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-ACA <sup>3'</sup>
							48
							5'-gCA <sup>3'</sup>
							48
							5'-gCC <sup>3'</sup>
							52
							5'-TgT <sup>3'</sup>
<b>A*</b>	<b>+</b>	<b>+</b>	<b>+</b>				
<b>B*</b>	<b>+</b>	<b>+</b>	<b>+</b>				
<b>C*</b>	<b>+</b>	<b>+</b>	<b>+</b>				
<b>DRB1</b>				<b>+</b>	<b>+</b>		
<b>DRB3</b>				<b>+</b>	<b>+</b>		
<b>DRB5</b>				<b>+</b>			
<b>DQB1</b>					<b>+</b>		
<b>DPB1</b>						<b>+</b>	
<b>DQA1</b>							<b>+</b>

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

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

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Lot-specific Information

## PRODUCT DESCRIPTION

### HLA-A\*03 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the A\*03:01 to A\*03:278 alleles.

#### PLATE LAYOUT

Each test consists of 64 PCR reactions in a 64 well PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	NC

The 64 well cut PCR plate is marked with 'HLA-A\*03' in silver/gray ink.

Well No. 1 is marked with the Lot No. '6F4'.

Wells 1 to 63 – HLA-A\*03 high resolution primers.

Well 64 – Negative Control (NC).

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

Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A\*03 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-A\*03 alleles, i.e. **A\*03:01 to A\*03:278**, recognized by the HLA Nomenclature Committee in April 2017<sup>1,2</sup> will be amplified by the primers in the HLA-A\*03 subtyping kit<sup>3</sup>.

The HLA-A\*03 kit enables separation of the confirmed HLA-A\*03 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\*03 alleles is listed below.

The HLA-A\*03 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

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**Lot No.: 6F4**

**Lot-specific Information**

The following HLA-A\*03 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
A*03:16, 03:61	20	A*03:38, 03:68N	41
A*03:17:01-03:17:02, 03:74	21	A*03:44:01-03:44:02, 03:53	46
A*03:20, 03:47	43	A*03:78, 03:161N	49
A*03:22:01-03:22:02, 03:103	23	A*03:118, 03:134	57
A*03:25, 03:71	27	A*03:128, 03:144	59
A*03:27, 03:49	30	A*03:132, 03:162N	62

<sup>1</sup>HLA-A alleles listed on the IMGT/HLA web page 2017-April-13, release 3.28.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

<sup>3</sup>The HLA-A\*03 primer set cannot separate the A\*03:05:02 and A\*30:55 alleles. These alleles can be distinguished by the HLA-A low resolution kit and/or the HLA-A\*30 high resolution kit.

The HLA-A\*03 primer set cannot separate the A\*03:95, 03:215 and A\*74:13 alleles. These alleles can be distinguished by the HLA-A low resolution kit and/or the HLA-A\*74 high resolution kit.

<sup>4</sup>This lot of the A\*03 subtyping kit cannot distinguish the A\*03:29 and A\*03:67 alleles.

101.413-24/04 – including *Taq* polymerase, IFU-01  
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Lot-specific Information

**ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
A*03:01:01:01	Confirmed	A*03:01:38	Confirmed	A*03:19	Unconfirmed	A*03:67	Unconfirmed
A*03:01:01:02N	Confirmed	A*03:01:39	Confirmed	A*03:20	Confirmed	A*03:68N	Confirmed
A*03:01:01:03	Confirmed	A*03:01:40	Unconfirmed	A*03:21N	Unconfirmed	A*03:69N	Confirmed
A*03:01:01:04	Confirmed	A*03:01:41	Unconfirmed	A*03:22:01	Confirmed	A*03:70	Unconfirmed
A*03:01:01:05	Confirmed	A*03:01:42	Unconfirmed	A*03:22:02	Confirmed	A*03:71	Unconfirmed
A*03:01:01:06	Unconfirmed	A*03:01:43	Confirmed	A*03:23:02	Confirmed	A*03:72	Unconfirmed
A*03:01:01:07	Confirmed	A*03:01:44	Unconfirmed	A*03:24	Unconfirmed	A*03:73	Unconfirmed
A*03:01:01:08	Confirmed	A*03:01:45	Unconfirmed	A*03:25	Unconfirmed	A*03:74	Confirmed
A*03:01:01:09	Unconfirmed	A*03:01:46	Unconfirmed	A*03:26	Confirmed	A*03:75	Unconfirmed
A*03:01:01:10	Unconfirmed	A*03:01:47	Unconfirmed	A*03:27	Confirmed	A*03:76	Confirmed
A*03:01:01:11	Confirmed	A*03:01:48	Unconfirmed	A*03:28	Confirmed	A*03:77	Unconfirmed
A*03:01:01:12	Unconfirmed	A*03:01:49	Unconfirmed	A*03:29	Unconfirmed	A*03:78	Unconfirmed
A*03:01:01:13	Unconfirmed	A*03:01:50	Unconfirmed	A*03:30	Unconfirmed	A*03:79	Confirmed
A*03:01:01:14	Unconfirmed	A*03:01:51	Unconfirmed	A*03:31	Unconfirmed	A*03:80	Unconfirmed
A*03:01:02	Confirmed	A*03:01:52	Confirmed	A*03:32	Unconfirmed	A*03:81	Confirmed
A*03:01:03	Confirmed	A*03:01:53	Unconfirmed	A*03:33	Confirmed	A*03:82	Unconfirmed
A*03:01:04	Confirmed	A*03:01:54	Unconfirmed	A*03:34	Confirmed	A*03:83	Unconfirmed
A*03:01:05	Confirmed	A*03:01:55	Confirmed	A*03:35	Unconfirmed	A*03:84	Confirmed
A*03:01:06	Confirmed	A*03:01:56	Unconfirmed	A*03:36N	Unconfirmed	A*03:85	Unconfirmed
A*03:01:07	Unconfirmed	A*03:01:57	Confirmed	A*03:37	Unconfirmed	A*03:86	Confirmed
A*03:01:08	Unconfirmed	A*03:01:58	Unconfirmed	A*03:38	Confirmed	A*03:87	Confirmed
A*03:01:09	Unconfirmed	A*03:01:59	Unconfirmed	A*03:39	Unconfirmed	A*03:88	Confirmed
A*03:01:10	Unconfirmed	A*03:01:60	Unconfirmed	A*03:40	Unconfirmed	A*03:89:01	Unconfirmed
A*03:01:11	Confirmed	A*03:01:61	Unconfirmed	A*03:41	Unconfirmed	A*03:89:02	Unconfirmed
A*03:01:12	Confirmed	A*03:01:62	Unconfirmed	A*03:42	Unconfirmed	A*03:90	Unconfirmed
A*03:01:13	Unconfirmed	A*03:02:01	Confirmed	A*03:43	Unconfirmed	A*03:91N	Confirmed
A*03:01:14	Confirmed	A*03:02:02	Unconfirmed	A*03:44:01	Unconfirmed	A*03:92	Unconfirmed
A*03:01:15	Confirmed	A*03:02:03	Unconfirmed	A*03:44:02	Unconfirmed	A*03:93	Confirmed
A*03:01:16	Confirmed	A*03:02:04	Confirmed	A*03:45	Unconfirmed	A*03:94	Unconfirmed
A*03:01:17	Confirmed	A*03:03N	Unconfirmed	A*03:46	Unconfirmed	A*03:95	Unconfirmed
A*03:01:18	Confirmed	A*03:04:01	Unconfirmed	A*03:47	Confirmed	A*03:96	Confirmed
A*03:01:19	Confirmed	A*03:04:02	Unconfirmed	A*03:48	Confirmed	A*03:97	Confirmed
A*03:01:20	Confirmed	A*03:04:03	Unconfirmed	A*03:49	Confirmed	A*03:98	Unconfirmed
A*03:01:21	Confirmed	A*03:05:01	Confirmed	A*03:50	Confirmed	A*03:99	Unconfirmed
A*03:01:22	Unconfirmed	A*03:05:02	Unconfirmed	A*03:51	Confirmed	A*03:100	Unconfirmed
A*03:01:23	Unconfirmed	A*03:06	Unconfirmed	A*03:52	Unconfirmed	A*03:101	Unconfirmed
A*03:01:24	Unconfirmed	A*03:07:01	Confirmed	A*03:53	Confirmed	A*03:102	Confirmed
A*03:01:25	Unconfirmed	A*03:07:02	Unconfirmed	A*03:54	Unconfirmed	A*03:103	Confirmed
A*03:01:26	Unconfirmed	A*03:08	Confirmed	A*03:55	Unconfirmed	A*03:104	Confirmed
A*03:01:27	Unconfirmed	A*03:09	Confirmed	A*03:56	Confirmed	A*03:105	Unconfirmed
A*03:01:28	Confirmed	A*03:10	Unconfirmed	A*03:57	Confirmed	A*03:106	Unconfirmed
A*03:01:29	Unconfirmed	A*03:11N	Unconfirmed	A*03:58	Unconfirmed	A*03:107	Confirmed
A*03:01:30	Confirmed	A*03:12	Unconfirmed	A*03:59	Unconfirmed	A*03:108	Confirmed
A*03:01:31	Unconfirmed	A*03:13	Unconfirmed	A*03:60	Unconfirmed	A*03:109	Unconfirmed
A*03:01:32	Unconfirmed	A*03:14	Unconfirmed	A*03:61	Unconfirmed	A*03:110	Unconfirmed
A*03:01:33	Confirmed	A*03:15	Unconfirmed	A*03:62	Confirmed	A*03:111	Confirmed
A*03:01:34	Confirmed	A*03:16	Confirmed	A*03:63	Confirmed	A*03:112	Unconfirmed
A*03:01:35	Unconfirmed	A*03:17:01	Unconfirmed	A*03:64	Unconfirmed	A*03:113	Confirmed
A*03:01:36	Unconfirmed	A*03:17:02	Unconfirmed	A*03:65	Confirmed	A*03:114	Unconfirmed
A*03:01:37	Unconfirmed	A*03:18	Unconfirmed	A*03:66	Confirmed	A*03:115	Unconfirmed

**101.413-24/04 – including Taq polymerase, IFU-01**  
**101.413-24u/04u – without Taq polymerase, IFU-02**

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**Lot No.: 6F4**

**Lot-specific Information**

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
A*03:116	Unconfirmed	<b>A*03:162N</b>	<b>Confirmed</b>	<b>A*03:213</b>	<b>Confirmed</b>	A*03:262N	Unconfirmed
A*03:117	Unconfirmed	A*03:163	Unconfirmed	A*03:214	Unconfirmed	A*03:263	Unconfirmed
A*03:118	Unconfirmed	A*03:164	Unconfirmed	A*03:215	Unconfirmed	A*03:264	Unconfirmed
A*03:119	Unconfirmed	A*03:165	Unconfirmed	A*03:216	Unconfirmed	A*03:265	Unconfirmed
A*03:120	Unconfirmed	A*03:166	Unconfirmed	A*03:217	Unconfirmed	A*03:266N	Unconfirmed
A*03:121	Unconfirmed	<b>A*03:167</b>	<b>Confirmed</b>	A*03:218	Unconfirmed	A*03:267	Unconfirmed
A*03:122	Unconfirmed	A*03:168N	Unconfirmed	A*03:219	Unconfirmed	A*03:268	Unconfirmed
<b>A*03:123:01</b>	<b>Confirmed</b>	A*03:169	Unconfirmed	<b>A*03:220</b>	<b>Confirmed</b>	A*03:269N	Unconfirmed
A*03:123:02	Unconfirmed	A*03:170	Unconfirmed	A*03:221	Unconfirmed	A*03:270	Unconfirmed
A*03:124	Unconfirmed	A*03:171	Unconfirmed	A*03:222	Unconfirmed	A*03:271	Unconfirmed
A*03:125	Unconfirmed	A*03:172	Unconfirmed	A*03:223	Unconfirmed	A*03:272	Unconfirmed
A*03:126	Unconfirmed	A*03:173	Unconfirmed	A*03:224	Unconfirmed	A*03:273	Unconfirmed
<b>A*03:127</b>	<b>Confirmed</b>	A*03:174	Unconfirmed	A*03:225	Unconfirmed	A*03:274	Unconfirmed
<b>A*03:128</b>	<b>Confirmed</b>	A*03:175	Unconfirmed	A*03:226	Unconfirmed	A*03:275N	Unconfirmed
A*03:129N	Unconfirmed	<b>A*03:176</b>	<b>Confirmed</b>	A*03:227	Unconfirmed	A*03:276	Unconfirmed
<b>A*03:130</b>	<b>Confirmed</b>	A*03:177	Unconfirmed	A*03:228	Unconfirmed	A*03:277	Unconfirmed
A*03:131	Unconfirmed	A*03:178N	Unconfirmed	A*03:229	Unconfirmed	A*03:278	Unconfirmed
A*03:132	Unconfirmed	A*03:179	Unconfirmed	A*03:230	Unconfirmed		
<b>A*03:133</b>	<b>Confirmed</b>	A*03:180	Unconfirmed	A*03:231:01	Unconfirmed		
A*03:134	Unconfirmed	A*03:181	Unconfirmed	A*03:231:02	Unconfirmed		
A*03:135	Unconfirmed	A*03:182	Unconfirmed	A*03:232	Unconfirmed		
A*03:136	Unconfirmed	A*03:183	Unconfirmed	A*03:233	Unconfirmed		
A*03:137	Unconfirmed	A*03:184	Unconfirmed	A*03:234Q	Unconfirmed		
A*03:138	Unconfirmed	A*03:185	Unconfirmed	A*03:235	Unconfirmed		
<b>A*03:139</b>	<b>Confirmed</b>	A*03:186	Unconfirmed	A*03:236	Unconfirmed		
A*03:140	Unconfirmed	A*03:187	Unconfirmed	A*03:237	Unconfirmed		
A*03:141	Unconfirmed	A*03:188	Unconfirmed	<b>A*03:238</b>	<b>Confirmed</b>		
A*03:142	Unconfirmed	A*03:189	Unconfirmed	A*03:239	Unconfirmed		
<b>A*03:143</b>	<b>Confirmed</b>	A*03:190	Unconfirmed	A*03:240	Unconfirmed		
<b>A*03:144</b>	<b>Confirmed</b>	<b>A*03:191</b>	<b>Confirmed</b>	A*03:241	Unconfirmed		
A*03:145:01	Unconfirmed	A*03:192N	Unconfirmed	A*03:242	Unconfirmed		
<b>A*03:145:02</b>	<b>Confirmed</b>	A*03:193	Unconfirmed	A*03:243	Unconfirmed		
A*03:146	Unconfirmed	<b>A*03:195</b>	<b>Confirmed</b>	A*03:244	Unconfirmed		
A*03:147	Unconfirmed	A*03:196	Unconfirmed	<b>A*03:245</b>	<b>Confirmed</b>		
A*03:148	Unconfirmed	<b>A*03:197N</b>	<b>Confirmed</b>	A*03:246	Unconfirmed		
<b>A*03:149</b>	<b>Confirmed</b>	A*03:198	Unconfirmed	A*03:247	Unconfirmed		
<b>A*03:150</b>	<b>Confirmed</b>	A*03:199	Unconfirmed	A*03:248	Unconfirmed		
A*03:151	Unconfirmed	A*03:200Q	Unconfirmed	A*03:249	Unconfirmed		
A*03:152	Unconfirmed	A*03:201	Unconfirmed	A*03:250	Unconfirmed		
A*03:153	Unconfirmed	<b>A*03:202</b>	<b>Confirmed</b>	<b>A*03:251</b>	<b>Confirmed</b>		
A*03:154:01	Unconfirmed	A*03:203	Unconfirmed	A*03:252	Unconfirmed		
A*03:154:02	Unconfirmed	<b>A*03:204</b>	<b>Confirmed</b>	A*03:253	Unconfirmed		
A*03:155	Unconfirmed	A*03:205	Unconfirmed	A*03:254	Unconfirmed		
A*03:156	Unconfirmed	A*03:206	Unconfirmed	A*03:255	Unconfirmed		
A*03:157:01	Unconfirmed	A*03:207	Unconfirmed	A*03:256	Unconfirmed		
<b>A*03:157:02</b>	<b>Confirmed</b>	A*03:208	Unconfirmed	A*03:257	Unconfirmed		
A*03:158	Unconfirmed	A*03:209	Unconfirmed	A*03:258	Unconfirmed		
A*03:159	Unconfirmed	A*03:210	Unconfirmed	A*03:259	Unconfirmed		
A*03:160	Unconfirmed	A*03:211	Unconfirmed	A*03:260	Unconfirmed		
A*03:161N	Unconfirmed	A*03:212	Unconfirmed	A*03:261	Unconfirmed		

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2017-April-13, release 3.28.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**RESOLUTION IN HOMO- AND HETEROZYGOTES**

Results file with resolution in HLA-A\*03 homo- and heterozygotes is available upon request.

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **6F4**

Lot-specific Information

## SPECIFICITY TABLE

### HLA-A\*03 SSP subtyping

Specificities and sizes of the PCR products of the 63+1 primer mixes used for HLA-A\*03 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-A*03 alleles <sup>3</sup>	Other amplified HLA-A alleles
1	235 bp	800 bp	*03:01:01:01-03:01:29, 03:01:31-03:01:49, 03:01:51-03:04:03, 03:06-03:09, 03:11N-03:17:02, 03:19-03:39, 03:41, 03:43-03:74, 03:76-03:94, 03:96-03:97, 03:99-03:104, 03:106-03:121, 03:123:01-03:134, 03:136-03:166, 03:168N-03:176, 03:178N-03:186, 03:188-03:193, 03:195-03:203, 03:205-03:207, 03:209-03:214, 03:216-03:224, 03:226-03:278	*11:130, 30:89, 32:04, 36:02
2 <sup>5</sup>	225 bp	1070 bp	*03:01:01:01-03:01:11, 03:01:12 <sup>w</sup> , 03:01:13-03:01:22, 03:01:23 <sup>w</sup> , 03:01:24-03:07:02, 03:09-03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:56, 03:58, 03:60-03:71, 03:73-03:87, 03:90-03:106, 03:109-03:110, 03:112-03:141, 03:143-03:148, 03:150-03:151, 03:153-03:171, 03:174-03:175, 03:177, 03:181-03:193, 03:195, 03:197N, 03:200Q-03:202, 03:204, 03:206-03:210, 03:212-03:218, 03:220, 03:222-03:242, 03:244, 03:246-03:251, 03:253-03:266N, 03:268-03:272, 03:274-03:278	*01:13, 01:176, 01:194, 02:34 <sup>w</sup> -02:35:03 <sup>w</sup> , 02:56:01 <sup>w</sup> -02:56:02 <sup>w</sup> , 02:62 <sup>w</sup> , 02:103 <sup>w</sup> , 02:580 <sup>w</sup> , 11:199:01, 11:222, 30:55, 34:08, 68:71, 74:13
3 <sup>5</sup>	205 bp	1070 bp	*03:01:01:01-03:01:01:14, 03:01:03-03:01:05, 03:01:07-03:01:13, 03:01:15-03:01:46, 03:01:48-03:01:51, 03:01:53-03:01:62, 03:03N-03:05:01, 03:06, 03:08-03:09, 03:11N-03:17:02, 03:19-03:30, 03:33-03:41, 03:43-03:49, 03:51-03:53, 03:55-03:63, 03:67-03:72, 03:74, 03:77-03:81, 03:83-03:89:02, 03:91N-03:94, 03:96-03:105, 03:107-03:112, 03:114-03:126, 03:128-03:132, 03:134, 03:136-03:139, 03:141-03:152, 03:154:01-03:159, 03:161N-03:164, 03:166, 03:168N-03:170, 03:172-03:176,	*11:25:01, 30:89, 32:04, 34:02:01, 34:02:03-34:04, 34:07-34:10N, 34:13, 34:15



**101.413-24/04 – including Taq polymerase, IFU-01**  
**101.413-24u/04u – without Taq polymerase, IFU-02**

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**“Instructions for Use” (IFU)**

**Lot No.: 6F4**

**Lot-specific Information**

			03:178N-03:186, 03:188-03:193, 03:195-03:197N, 03:199, 03:201-03:203, 03:205-03:214, 03:216-03:217, 03:219-03:222, 03:224, 03:226-03:228, 03:230, 03:232-03:233, 03:235, 03:238- 03:241, 03:243, 03:245-03:248, 03:250-03:252, 03:254-03:273, 03:276-03:278	
<b>4</b>	215 bp	<b>800 bp</b>	*03:02:01-03:02:04, 03:10, 03:31- 03:32, 03:65, 03:69N, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113, 03:160, 03:167, 03:198, 03:218, 03:223, 03:236-03:237, 03:242, 03:244, 03:253, 03:274- 03:275N	*01:12, 01:19, 01:25, 01:127, 01:136, 11:01:01:01-11:01:56, 11:01:58-11:07, 11:09- 11:22, 11:27, 11:29-11:30, 11:32:01-11:34, 11:36-11:43, 11:45-11:49, 11:51-11:52Q, 11:54- 11:93, 11:95-11:100, 11:102-11:117, 11:119:01- 11:138, 11:140-11:142, 11:144-11:157, 11:159- 11:182Q, 11:184-11:190, 11:192-11:210N, 11:212-11:225, 11:227-11:241, 11:243-11:262, 24:51, 24:92, 30:99
<b>5</b>	185 bp	<b>800 bp</b>	*03:03N	
<b>6</b>	190 bp	1070 bp	*03:234Q	
	275 bp		*03:04:01-03:04:03	*01:86, 11:153:01-11:153:02, 30:34
<b>7</b>	225 bp	1070 bp	*03:06, 03:69N	
<b>8</b>	240 bp	1070 bp	*03:01:01:01-03:01:07, 03:01:09- 03:11N, 03:13-03:40, 03:42-03:56, 03:58-03:87, 03:89:01-03:106, 03:108, 03:110-03:151, 03:153- 03:172, 03:174-03:193, 03:195- 03:218, 03:220-03:256, 03:258- 03:266N, 03:268-03:272, 03:274- 03:278	*01:13, 01:28, 01:176, 01:194, 01:229, 02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:48, 02:01:50-02:01:81, 02:01:83- 02:01:100, 02:01:102-02:01:105, 02:01:107, 02:01:109-02:01:119, 02:01:121-02:01:123, 02:01:125-02:04, 02:07:01-02:07:08, 02:09, 02:11:01-02:13, 02:15N-02:20:02, 02:22:01- 02:22:02, 02:24:01-02:27, 02:29-02:40:02, 02:42-02:43N, 02:45-02:50, 02:52-02:53N, 02:55-02:56:02, 02:58-02:60:02, 02:62-02:71, 02:73-02:77, 02:80, 02:82N-02:83N, 02:85- 02:86:02, 02:88N-02:90, 02:92-02:97:02, 02:101:01-02:105, 02:107, 02:109-02:111, 02:113:01N-02:121, 02:123, 02:125N, 02:128, 02:130-02:135, 02:138-02:141, 02:145, 02:147- 02:153:02, 02:155-02:168, 02:171:01-02:171:02, 02:173-02:177, 02:181-02:183, 02:185-02:228, 02:230-02:231, 02:233-02:243:02, 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, 02:291-02:294, 02:296-02:299, 02:301N-02:309, 02:311-02:323, 02:325-02:327, 02:329, 02:332, 02:334-02:336, 02:338-02:343, 02:345-02:354, 02:356N-02:357, 02:360-02:372, 02:374-02:375, 02:377-02:381, 02:383-02:386, 02:388-02:397, 02:399-02:403, 02:406-02:408, 02:410-02:412, 02:414, 02:416-02:418, 02:422-02:427, 02:429- 02:432, 02:434-02:437, 02:439N-02:442, 02:444-02:452, 02:455-02:464, 02:466-02:469, 02:477-02:483, 02:485-02:488, 02:490N-02:492, 02:494, 02:498-02:505, 02:508-02:526, 02:528:01-02:531, 02:533-02:545, 02:547- 02:548, 02:551-02:557, 02:559-02:570, 02:573, 02:575-02:576, 02:578-02:590, 02:594-02:601,

**101.413-24/04 – including Taq polymerase, IFU-01**  
**101.413-24u/04u – without Taq polymerase, IFU-02**

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**Lot No.: 6F4**

**Lot-specific Information**

			02:603-02:622N, 02:624, 02:627-02:629, 02:632-02:643N, 02:647-02:654, 02:656-02:669, 02:671, 02:673-02:675N, 02:677-02:683, 11:43, 11:88, 11:199:01-11:199:02, 11:222, 24:19, 24:28, 24:44, 24:89, 24:290, 24:379, 29:19, 29:39, 29:48, 30:01:01-30:01:11, 30:11:01-30:11:02, 30:13-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:44, 30:46, 30:48-30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 30:65, 30:71-30:75, 30:78N-30:79, 30:81-30:83, 30:86-30:87, 30:89, 30:91-30:98, 30:102, 30:104, 30:106, 30:109-30:116, 31:01:02:01-31:01:05, 31:01:07-31:06, 31:09, 31:11-31:32, 31:34-31:73, 31:75-31:78, 31:80-31:125, 33:01:01:01-33:01:10, 33:03:01-33:03:05, 33:03:07-33:12, 33:14-33:16, 33:18:01-33:37, 33:39-33:47, 33:49-33:50, 33:52-33:64, 33:66-33:68, 33:70-33:128, 34:08, 68:29, 68:45, 68:71, 68:117, 74:01:01-74:09, 74:11-74:18, 74:20-74:28, 80:02	
<b>9<sup>8</sup></b>	230 bp	1070 bp	*03:05:01-03:05:02, 03:10, 03:42, 03:72, 03:187, 03:225	*01:200, 02:156, 02:338, 11:04, 11:35, 11:88, 24:19, 24:290, 30:01:01-30:02:11, 30:02:13-30:04:02, 30:06-30:20, 30:22-30:27N, 30:29-30:44, 30:46, 30:48-30:79, 30:81-30:116, 31:03-31:04, 33:49, 34:02:01-34:04, 34:07-34:10N, 34:13, 34:15, 36:01, 36:05, 68:45, 68:103:01-68:103:02, 68:117, 74:23
<b>10<sup>4</sup></b>	65 bp 205 bp	<b>800 bp</b>	*03:60 *03:02:01-03:02:04, 03:07:01, 03:10, 03:31-03:32, 03:42, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113, 03:133, 03:160, 03:171, 03:198, 03:218, 03:223, 03:236-03:237, 03:242, 03:244, 03:253, 03:274-03:275N	*01:12, 01:19, 01:21, 01:126, 01:200, 02:156, 02:338, 11:31, 11:35, 11:60, 11:158, 11:183, 11:209, 24:92, 30:04:01-30:04:02, 30:06, 30:09, 30:17, 30:29, 30:46, 30:77, 30:90, 30:99, 30:103, 30:105, 30:117, 31:03-31:04, 33:49, 68:103:01-68:103:02, 74:23
<b>11</b>	225 bp	<b>800 bp</b>	*03:08, 03:32, 03:41, 03:107, 03:176	*01:01:01:01-01:01:31, 01:01:33-01:01:46, 01:01:48-01:01:61, 01:01:63-01:01:81, 01:03:01:01-01:04N, 01:06, 01:08-01:12, 01:14-01:16N, 01:18N-01:19, 01:21-01:33, 01:35-01:42, 01:44-01:94, 01:96-01:103, 01:105-01:107, 01:109-01:133, 01:135-01:142, 01:144-01:161, 01:163-01:175, 01:177-01:187, 01:189, 01:191-01:193, 01:195-01:210, 01:212-01:219, 01:221-01:228Q, 01:230-01:236, 02:48, 02:81, 02:90, 02:124, 02:146, 02:644, 25:03, 25:30, 26:20, 32:01:01:01-32:01:14, 32:01:16-32:02, 32:03 <sup>w</sup> , 32:04-32:06, 32:08 <sup>w</sup> , 32:09-32:16, 32:18-32:26:02, 32:28-32:41, 32:43-32:63, 32:65-32:66, 32:68-32:101Q, 36:01-36:05, 74:01:01-74:01:04, 74:02:01:01-74:04, 74:08-74:12N, 74:14N-74:18, 74:20, 74:22-74:28, 80:01:01:01 <sup>w</sup> -80:01:01:02 <sup>w</sup> , 80:02
<b>12</b>	190 bp	1070 bp	*03:09, 03:89:02, 03:108, 03:172, 03:198	*01:134, 01:229, 02:01:09, 02:05:05, 02:06:07, 02:50, 02:76:02, 02:122, 02:243:02, 02:528:02, 02:591:01, 11:06, 11:18, 24:28, 24:89, 24:379, 26:03:01, 26:06, 26:21, 26:30, 26:78, 26:92,

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **6F4**

Lot-specific Information

				26:111, 29:19, 29:48, 33:24, 68:05, 68:15, 68:20, 74:06, 74:21
<b>13<sup>4</sup></b>	55 bp	<b>800 bp</b>	*03:157:01, 03:172, 03:176	*01:191, 02:45, 11:224, 23:28, 24:77, 31:02, 31:07, 31:91, 32:05, 32:31
	145 bp		*03:01:01:02N	
<b>14<sup>4</sup></b>	105 bp	1070 bp	*03:11N	*11:137:02N
	235 bp		*03:59	
<b>15</b>	225 bp	1070 bp	*03:12, 03:88, 03:245	*02:78, 11:01:01:01-11:01:50, 11:01:52-11:02:01, 11:02:02 <sup>w</sup> , 11:02:03-11:05, 11:06 <sup>w</sup> , 11:07-11:16, 11:20-11:27, 11:29-11:39, 11:41-11:42, 11:44, 11:46, 11:48-11:52Q, 11:54-11:77, 11:79-11:87, 11:89-11:91:02, 11:93-11:97, 11:99N-11:105, 11:107-11:110, 11:112-11:120, 11:122-11:160, 11:162-11:177, 11:179-11:189, 11:191-11:198, 11:200-11:220, 11:224-11:229, 11:231-11:249, 11:251N-11:262, 30:08, 34:01:01-34:07, 34:09-34:13, 34:15-34:17, 66:01:01:01-66:02, 66:04, 66:06-66:10, 66:12-66:14, 66:16-66:27N, 68:01:01:01-68:01:28, 68:01:30-68:02:12, 68:06-68:14, 68:16-68:19, 68:21:01-68:28, 68:30, 68:32-68:35, 68:37-68:44, 68:47-68:56, 68:58:01-68:70, 68:72-68:83, 68:85-68:89, 68:91-68:108, 68:110-68:116, 68:118-68:135, 68:137-68:166, 69:01:01:01-69:03
<b>16</b>	275 bp	1070 bp	*03:14	*02:450
<b>17<sup>5,6</sup></b>	215 bp	<b>800 bp</b>	*03:01:01:01-03:01:62, 03:03N-03:09, 03:11N-03:17:02, 03:19-03:30, 03:33-03:49, 03:51-03:64, 03:67-03:68N, 03:70-03:72, 03:74, 03:77-03:81, 03:83-03:89:02, 03:91N-03:94, 03:96-03:105, 03:107-03:112, 03:114-03:134, 03:136-03:152, 03:154:01-03:159, 03:161N-03:166, 03:168N-03:176, 03:178N-03:186, 03:188-03:193, 03:195-03:197N, 03:199, 03:201-03:203, 03:205-03:207, 03:209-03:214, 03:216-03:217, 03:219-03:222, 03:224, 03:226-03:228, 03:230-03:235, 03:238-03:241, 03:243, 03:245-03:248, 03:250-03:252, 03:254-03:265, 03:267-03:273, 03:276-03:278	*01:06, 01:200, 02:156, 02:338, 11:24:01-11:25:02, 11:31, 11:35, 11:158, 30:01:01-30:02:11, 30:02:13-30:03, 30:07-30:16, 30:18-30:20, 30:22-30:27N, 30:30-30:45, 30:48-30:51, 30:53-30:62, 30:64-30:71, 30:73N-30:76N, 30:78N-30:79, 30:81-30:89, 30:91-30:98, 30:100-30:102, 30:104, 30:106-30:112, 30:114-30:116, 31:03-31:04, 32:04, 33:49, 34:02:01-34:04, 34:07-34:10N, 34:13, 34:15, 74:23, 80:01:01:01-80:03
<b>18<sup>5</sup></b>	135 bp 215 bp	1070 bp	*03:13 *03:50, 03:64, 03:66, 03:200Q, 03:225, 03:266N	*01:98, 11:08, 11:44, 11:183, 11:191, 25:43, 30:04:01-30:04:02, 30:06, 30:17, 30:29, 30:46, 30:77, 30:90, 30:103, 30:105, 30:117, 36:02, 68:103:01-68:103:02
<b>19<sup>4,6</sup></b>	125 bp 205 bp 240 bp	1070 bp	*03:202 *03:145:02 *03:15, 03:19, 03:84	
<b>20<sup>4</sup></b>	60 bp	1070 bp	*03:61, 03:157:01, 03:172, 03:176	*01:191, 02:45, 11:224, 23:28, 24:77, 31:02, 31:07, 31:91, 32:05, 32:31
	185 bp		*03:16, 03:79	

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **6F4**

Lot-specific Information

	405 bp		*03:61	
<b>21</b>	140 bp	1070 bp	*03:17:01-03:17:02, 03:102, 03:171	*01:88:01-01:88:02, 01:236, 02:156, 02:338, 11:119:01-11:119:02, 11:209, 24:51, 24:92, 30:61, 30:74, 68:103:01-68:103:02
	195 bp		*03:74	
<b>22<sup>4</sup></b>	90 bp	1070 bp	*03:191, 03:236	*11:59
	250 bp		*03:18, 03:97, 03:122, 03:135, 03:167	*01:01:01:01-01:01:01:65, 01:01:67-01:02, 01:04N, 01:06-01:19, 01:21-01:33, 01:35-01:62, 01:64-01:65, 01:67:01-01:71, 01:74-01:101, 01:103-01:129, 01:131-01:166, 01:168-01:191, 01:193-01:199, 01:201-01:236, 11:27, 11:38-11:39, 11:94, 11:209, 24:51, 24:92, 30:75, 80:01:01:01-80:03
<b>23<sup>4</sup></b>	95 bp	1070 bp	*03:22:01-03:22:02, 03:248, 03:274	*32:52, <b>C*06:187</b>
	185 bp		*03:19, 03:103	*02:237, 24:18, 24:204, 24:213, 32:52
	210 bp		*03:56, 03:88, 03:99, 03:177, 03:186, 03:238	*11:130, 32:52, 36:02, <b>C*06:187</b>
	240 bp		*03:75	*24:18, 24:204, 24:213, <b>C*06:187</b>
<b>24</b>	470 bp	1070 bp	*03:21N	*01:04N, 11:21N, 23:07N, 24:11N
<b>25</b>	155 bp	1070 bp	*03:23:01-03:23:02, 03:89:02, 03:198	*01:83:01-01:83:02, 02:01:09, 02:05:05, 02:06:07, 02:11:02, 02:35:03, 02:50, 02:76:02, 02:122, 02:243:02, 02:528:02, 02:591:01, 11:70:01-11:70:02, 11:121, 23:80, 24:08, 24:42, 24:89, 24:310:01-24:310:02, 24:342, 26:07:01-26:07:02, 26:92, 29:48, 31:109, 32:93, 33:08-33:09, 68:30, 74:04, 74:21
<b>26</b>	190 bp	1070 bp	*03:24, 03:93	*01:51, 25:03, 25:30, 32:15, 32:37, 34:08, 68:71
<b>27<sup>4</sup></b>	95 bp	1070 bp	*03:71	
	145 bp		*03:25	
	170 bp		*03:251	*11:49
	240 bp		*03:149, 03:245	*11:200
<b>28<sup>7</sup></b>	170 bp	1070 bp	*03:26	*11:77, 11:126
	220 bp		*03:269N	
	495 bp		*03:41, 03:63, 03:88	*11:130, 36:02, <b>C*06:187</b>
<b>29<sup>4</sup></b>	100 bp	1070 bp	*03:01:01:01-03:07:02, 03:09-03:31, 03:33, 03:35, 03:37-03:40, 03:42-03:61, 03:64-03:87, 03:90-03:106, 03:109-03:151, 03:153-03:171, 03:173-03:175, 03:177-03:193, 03:195-03:197N, 03:199-03:262N, 03:264-03:272, 03:274-03:278	*01:194, 02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 02:580, 11:12, 23:13, 24:07:01-24:07:02, 24:24, 24:108, 24:112, 24:131, 24:288, 24:290, 24:294Q, 24:339, 24:347:01-24:347:02, 29:01:01:01-29:18, 29:21-29:29, 29:31-29:33, 29:35-29:47, 29:49-29:65, 29:67-29:73, 29:75-29:97, 29:99, 30:01:01-30:01:11, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:26, 30:30, 30:35-30:43, 30:48-30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 30:65, 30:71-30:75, 30:78N-30:79, 30:81-30:83, 30:86-30:89, 30:91-30:98, 30:102, 30:104, 30:106, 30:109-30:116, 31:89, 31:115, 32:17, 33:125, 34:09, 66:02, 66:12, 66:16, 66:21, 66:25-66:26Q, 68:01:01:01-68:01:17, 68:01:19-68:02:12, 68:06-68:14, 68:16-68:19, 68:21:01-68:30, 68:32-68:71, 68:73-68:89, 68:91-68:92, 68:94N-68:96, 68:98-68:108, 68:110-68:166, 69:01:01:01-69:01:02, 69:03, 74:13

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **6F4**

Lot-specific Information

<b>30</b>	140 bp 210 bp	1070 bp	*03:27, 03:102 *03:49, 03:139	*01:157, 11:233
<b>31<sup>6</sup></b>	125 bp 200 bp  230 bp	<b>800 bp</b>	*03:202 *03:56, 03:88, 03:99, 03:143, 03:177, 03:186, 03:262N *03:28	*11:130, 32:52, 36:02, <b>C*06:187</b>
<b>32</b>	150 bp 220 bp 270 bp	1070 bp	*03:67 *03:29 *03:91N	
<b>33</b>	180 bp 210 bp 285 bp	1070 bp	*03:93 *03:30, 03:152, 03:273 *03:62	*32:37, 80:01:01:01 <sup>w</sup> -80:03 <sup>w</sup> *23:64, 24:104, 32:05, 32:79 *01:144
<b>34<sup>4</sup></b>	125 bp 160 bp	1070 bp	*03:58 *03:31	
<b>35</b>	235 bp 275 bp	1070 bp	*03:32 *03:55	*31:21, 74:07
<b>36<sup>4</sup></b>	120 bp 160 bp 210 bp	1070 bp	*03:81 *03:33 *03:70	
<b>37<sup>4</sup></b>	95 bp 120 bp 225 bp	1070 bp	*03:48, 03:168N *03:81 *03:34	*02:525N
<b>38</b>	170 bp 195 bp 250 bp	<b>800 bp</b>	*03:35, 03:130 *03:79, 03:192N *03:73	*01:167
<b>39</b>	200 bp 235 bp	1070 bp	*03:36N, 03:182 *03:45	*01:109, 11:100, 11:175 *30:77
<b>40</b>	240 bp 280 bp	1070 bp	*03:37 *03:220	
<b>41</b>	185 bp 275 bp	1070 bp	*03:38, 03:192N, 03:223 *03:68N	
<b>42<sup>6</sup></b>	190 bp 220 bp 245 bp	<b>800 bp</b>	*03:143 *03:39, 03:238, 03:269N *03:84	
<b>43</b>	150 bp 260 bp	1070 bp	*03:20 *03:47, 03:76	
<b>44</b>	170 bp 240 bp	1070 bp	*03:51, 03:130 *03:40	
<b>45</b>	150 bp 270 bp	1070 bp	*03:43, 03:186 *03:91N	*30:89
<b>46<sup>4,7</sup></b>	115 bp 170 bp 190 bp	1070 bp	*03:44:01-03:44:02, 03:52 *03:213 *03:53	*02:164:01-02:164:02, 02:380, 30:69, 30:109 31:19 *02:575, 30:30, 31:69, <b>C*05:123, C*07:35, C*07:352, C*08:48</b>
<b>47<sup>5</sup></b>	240 bp	1070 bp	*03:41, 03:57, 03:107	*01:01:01:01-01:01:03, 01:01:05-01:01:12, 01:01:14-01:01:28, 01:01:30-01:01:31, 01:01:33- 01:01:34, 01:01:36-01:01:49, 01:01:51-01:01:81, 01:03:01:01-01:04N, 01:06, 01:08-01:12, 01:14- 01:19, 01:21-01:23, 01:25-01:27N, 01:29-01:33, 01:35-01:42, 01:44-01:94, 01:96-01:112, 01:114- 01:133, 01:135-01:142, 01:144-01:157, 01:159- 01:175, 01:177-01:182, 01:184-01:187, 01:189, 01:191-01:193, 01:195-01:209, 01:211-01:215, 01:217-01:219, 01:221-01:228Q, 01:230-01:236,

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **6F4**

Lot-specific Information

				36:01-36:05, 74:10, 80:01:01:01-80:01:01:02, 80:03
<b>48<sup>4,7</sup></b>	70 bp	1070 bp	*03:54	*02:380, 30:109, 31:19 <b>C*07:86</b> *02:314N, 32:48N, <b>C*07:55N</b>
	110 bp		*03:52	
	145 bp		*03:46	
	190 bp		*03:197N	
<b>49</b>	170 bp	1070 bp	*03:251	*11:49
	195 bp		*03:161N	
	545 bp		*03:78	
<b>50<sup>6</sup></b>	130 bp	1070 bp	*03:86	
	165 bp		*03:213	
	200 bp		*03:145:02, 03:262N	
<b>51<sup>5,6</sup></b>	215 bp	1070 bp	*03:50	*11:183, 11:191, 25:43, 30:04:01-30:04:02, 30:06, 30:17, 30:29, 30:46, 30:77, 30:90, 30:103, 30:105, 30:117, 68:103:01-68:103:02 *01:101, 11:30, 30:92
	285 bp		*03:87	
<b>52<sup>4</sup></b>	90 bp	1070 bp	*03:96, 03:168N	*74:14N *01:83:01-01:83:02, 01:191, 02:01:02, 02:50, 23:64, 24:104, 32:05, 32:31, 32:79, 74:04, 74:21
	170 bp		*03:275N	
	215 bp		*03:89:02, 03:152, 03:172, 03:176, 03:198, 03:273	
<b>53</b>	190 bp	<b>800 bp</b>	*03:234Q	*33:49 *02:45, 02:56:01-02:56:02, 02:78, 02:103, 02:169, 02:195, 23:09, 24:129, 24:191, 26:19, 26:72, 66:23, 68:66:01-68:66:02
	225 bp		*03:150, 03:153	
	260 bp		*03:104	
	400 bp		*03:242	
<b>54</b>	145 bp	1070 bp	*03:195	
	240 bp		*03:111, 03:178N	
<b>55<sup>5</sup></b>	205 bp	<b>800 bp</b>	*03:02:01-03:02:04, 03:07:01-03:07:02, 03:10, 03:31-03:32, 03:42, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113, 03:133, 03:160, 03:171, 03:198, 03:218, 03:223, 03:236-03:237, 03:242, 03:244, 03:253, 03:274-03:275N	*01:12, 01:19, 01:21, 01:126, 01:200, 02:156, 02:338, 11:31, 11:35, 11:60, 11:158, 11:183, 11:209, 24:51, 24:92, 30:04:01-30:04:02, 30:06, 30:09, 30:17, 30:29, 30:46, 30:77, 30:90, 30:99, 30:103, 30:105, 30:117, 31:03-31:04, 33:49, 68:103:01-68:103:02, 74:23
<b>56</b>	180 bp 215 bp	1070 bp	*03:182, 03:275N, *03:113, 03:157:02	*01:109, 11:100, 11:175, 74:14N
<b>57<sup>7</sup></b>	180 bp	1070 bp	*03:134	
	280 bp		*03:118, 03:220	
	400 bp		*03:112	
<b>58<sup>5</sup></b>	215 bp	1070 bp	*03:127, 03:150, 03:153, 03:200Q, 03:266N	*01:06, 11:24:02
<b>59<sup>4</sup></b>	105 bp	1070 bp	*03:144	
	145 bp		*03:195	
	240 bp		*03:128, 03:178N	
<b>60<sup>6</sup></b>	310 bp	1070 bp	*03:218	*11:86
	390 bp		*03:112, 03:129N	
<b>61</b>	225 bp	1070 bp	*03:18, 03:97, 03:122, 03:135, 03:167	*01:221, 02:19, 02:36-02:37, 02:54, 02:255, 02:417, 23:01:01:01-23:03:02, 23:05-23:15, 23:17-23:30, 23:32-23:41, 23:44, 23:46-23:54, 23:56-23:68, 23:70-23:74, 23:76-23:78, 23:80-23:82, 24:02:01:01-24:02:04, 24:02:06-24:02:28, 24:02:30-24:02:69, 24:02:71-24:02:101, 24:04-24:09N, 24:11N, 24:13:01-24:14:01:02, 24:17,

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **6F4**

Lot-specific Information

				24:19-24:21:03, 24:24-24:32, 24:34-24:40N, 24:42-24:50, 24:52-24:64, 24:66-24:74:02, 24:76-24:91, 24:93, 24:95-24:117, 24:119-24:124, 24:126-24:131, 24:133-24:137, 24:139-24:166, 24:168-24:203, 24:205-24:206, 24:208-24:209, 24:212-24:218, 24:220-24:234, 24:236-24:260, 24:262-24:288, 24:290-24:291, 24:293-24:296, 24:298, 24:301-24:304, 24:306-24:314, 24:317-24:328, 24:330-24:338, 24:341-24:373, 24:375-24:382, 29:03, 30:75, 31:05, 33:10, 33:19, 68:26, 68:65, 68:115, 68:131, 80:01:01:01-80:03
<b>62</b>	190 bp 245 bp 375 bp	1070 bp	*03:132, 03:197N *03:204 *03:162N	*02:314N, 32:48N, <b>C*07:55N</b>
<b>63</b>	175 bp  205 bp	<b>800 bp</b>	*03:123:01-03:123:02, 03:171  *03:42, 03:133, 03:139	*02:156, 02:338, 11:16, 11:35, 11:57, 11:73, 11:158, 68:103:01-68:103:02 *30:09, 31:03-31:04, 33:49, 74:23
<b>64<sup>9</sup></b>			<b>Negative Control</b>	

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-A\*03 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length.

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 inherit 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 internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>For several HLA Class I 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. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

<sup>4</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>5</sup>Primer mix 2, 3, 17, 18, 47, 51, 55 and 58 may give rise to a lower yield of HLA-specific PCR product than the other A\*03 primer mixes.

<sup>6</sup>Primer mixes 17, 19, 31, 42, 50, 51 and 60 may have tendencies of unspecific amplifications.

<sup>7</sup>Primer mixes 28, 46, 48 and 57 have a tendency to giving rise to primer oligomer formation.

<sup>8</sup>Primer mix 9 may give rise to a long unspecific amplification product of approximately 750 bp. This should be disregarded when interpreting the A\*03 typings.

<sup>9</sup>Primer mix 64 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product

**101.413-24/04 – including *Taq* polymerase, IFU-01**  
**101.413-24u/04u – without *Taq* polymerase, IFU-02**

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**Lot No.: 6F4**

**Lot-specific Information**

sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

'w', may be weakly amplified.



101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **6F4**

Lot-specific Information  
**PRIMER SPECIFICATION**

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	235	225	205	215	185	190	225	240	230	65	225	190
						275				205		
Length of int. pos. control <sup>1</sup>	<b>800</b>	1070	1070	<b>800</b>	<b>800</b>	1070	1070	1070	1070	<b>800</b>	<b>800</b>	1070
5'-primer(s) <sup>2</sup>	363	98	363	363	382	363	363	102	98	363	98	144
	5'-ATA 3'	5'-CTT 3'	5'-ATA 3'	5'-ATA 3'	5'-Tgg 3'	5'-ATA 3'	5'-ATA 3'	5'-ACA 3'	5'-CTC 3'	5'-ATA 3'	5'-CTT 3'	5'-gCC 3'
	363		363					102	363			
	5'-ATA 3'		5'-ATA 3'					5'-ACA 3'	5'-ATA 3'			
3'-primer(s) <sup>3</sup>	555	282	527	539	527	513	538	299	282	388	282	292
	5'-CCA 3'	5'-gAC 3'	5'-CCT 3'	5'-TCT 3'	5'-CCT 3'	5'-TCC 3'	5'-CTA 3'	5'-CCA 3'	5'-gAC 3'	5'-gAT 3'	5'-gAg 3'	5'-gTg 3'
	555	282				595	557	299	555	527	282	
	5'-CCA 3'	5'-gAC 3'				5'-CCg 3'	5'-Tgg 3'	5'-CCA 3'	5'-CCC 3'	5'-CCA 3'	5'-gAg 3'	
	557					595				527	282	
	5'-Tgg 3'					5'-CCT 3'				5'-CCA 3'	5'-gAg 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	55	105	225	275	215	135	125	60	140	90	95	470
	145	235				215	205	185	195	250	185	
							240	405			210	
											240	
Length of int. pos. control <sup>1</sup>	<b>800</b>	1070	1070	1070	<b>800</b>	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	257	28	88	98	363	363	350	257	363	363	355	3 <sup>rd</sup> I
	5'-CCA 3'	5'-TCC 3'	5'-Tgg 3'	5'-CTT 3'	5'-ATA 3'	5'-ATA 3'	5'-TCg 3'	5'-CCA 3'	5'-ATA 3'	5'-ATA 3'	5'-CCC 3'	5'-ATA 3'
	4 <sup>th</sup> I	363	98		363		368	363			385	
	5'-ggA 3'	5'-ATA 3'	5'-CTA 3'		5'-ATA 3'		5'-gTT 3'	5'-ATA 3'			5'-ggC 3'	
							391				385	
							5'-ACA 3'				5'-ggT 3'	
							470				413	
							5'-TTC 3'				5'-CCA 3'	
											502	
											5'-CCC 3'	
3'-primer(s) <sup>3</sup>	270	92	282	333	539	455	555	270	453	412	555	621
	5'-ACT 3'	5'-AAC 3'	5'-gAC 3'	5'-CTg 3'	5'-TCA 3'	5'-CCA 3'	5'-CCA 3'	5'-ACT 3'	5'-TCT 3'	5'-CCC 3'	5'-CCA 3'	5'-ggg 3'
	899	426				528		382	453	570		
	5'-ACA 3'	5'-TCT 3'				5'-gCg 3'		5'-CCT 3'	5'-TCC 3'	5'-CCg 3'		
						539		496	479			
						5'-TCC 3'		5'-gAA 3'	5'-CCC 3'			
						539		518	518			
						5'-CA 3'		5'-CCA 3'	5'-CCT 3'			
						540						
						5'-C 3'						
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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**Lot No.: 6F4**

**Lot-specific Information**

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product	155	190	95	170	100	140	125	150	180	125	235	120
			145	220		210	200	220	210	160	275	160
			170	495			230	270	285			210
			240									
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	1070	1070	<b>800</b>	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	144	98	83	341	282	363	365	98	98	98	98	98
	5'-gCC 3'	5'-CTT 3'	5'-CTg 3'	5'-ggA 3'	5'-CAg 3'	5'-ATA 3'	5'-AAC 3'	5'-CTT 3'	5'-CTT 3'	5'-CTT 3'	5'-CTT 3'	5'-CTT 3'
			88	375	282		385			418		
			5'-Tgg 3'	5'-TgA 3'	5'-CAg 3'		5'-ggC 3'			5'-AgT 3'		
			151	874			394					
			5'-gCC 3'	5'-CCg 3'			5'-..C 3'					
			179				406					
			5'-gTg 3'				5'-gCC 3'					
			228				470					
			5'-ATg 3'				5'-TTC 3'					
3'-primer(s) <sup>3</sup>	256	239	282	555	341	454	555	206	239	181	290	175
	5'-CCC 3'	5'-gCT 3'	5'-gAC 3'	5'-CCA 3'	5'-Cgg 3'	5'-CTg 3'	5'-CCA 3'	5'-CCg 3'	5'-gCT 3'	5'-gTT 3'	5'-CAA 3'	5'-CCC 3'
		259		899		479		278	265	539	330	217
		5'-gTT 3'		5'-ACA 3'		5'-CCC 3'		5'-ggA 3'	5'-CCC 3'	5'-TCT 3'	5'-TgT 3'	5'-CgA 3'
						526		327	343			265
						5'-CTT 3'		5'-TTT 3'	5'-T 3'			5'-CCA 3'
						533						
						5'-gCC 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	95	170	200	240	185	190	150	170	150	115	240	70
	120	195	235	280	275	220	260	240	270	170		110
		225	250			245				190		145
												190
Length of int. pos. control <sup>1</sup>	1070	<b>800</b>	1070	1070	1070	<b>800</b>	1070	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	98	363	98	764	98	350	98	363	98	410	98	411
	5'-CTT 3'	5'-ATA 3'	5'-CTT 3'	5'-CgC 3'	5'-CTT 3'	5'-TCg 3'	5'-CTT 3'	5'-ATA 3'	5'-CTT 3'	5'-gTg 3'	5'-CTT 3'	5'-TAg 3'
			650	801	363	375	890		418	429		457
			5'-CCC 3'	5'-AAC 3'	5'-ATA 3'	5'-TgA 3'	5'-gAA 3'		5'-AgC 3'	5'-gAA 3'		5'-AgC 3'
						376				484		488
						5'-gCT 3'				5'-ACC 3'		5'-ggT 3'
						385				484		530
						5'-ggT 3'				5'-ACT 3'		5'-ggT 3'
						406				488		
						5'-gCC 3'				5'-ggT 3'		
3'-primer(s) <sup>3</sup>	152	487	259	899	331	555	316	486	327	559	299	559
	5'-Cgg 3'	5'-Cgg 3'	5'-CTC 3'	5'-ACA 3'	5'-CTA 3'	5'-CCA 3'	5'-gCT 3'	5'-gCg 3'	5'-TTT 3'	5'-CgT 3'	5'-TCg 3'	5'-CgT 3'
	153	490	806		506		899	490	527			
	5'-ACT 3'	5'-AgT 3'	5'-CCA 3'		5'-Tgg 3'		5'-ACA 3'	5'-AgT 3'	5'-CCT 3'			
	175	513	845		513			561				
	5'-CCC 3'	5'-TCT 3'	5'-AgT 3'		5'-TCT 3'			5'-CAg 3'				
	281	518										
	5'-ACg 3'	5'-CCA 3'										
		574										
		5'-gAA 3'										
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **6F4**

Lot-specific Information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	170	130	215	90	190	145	205	180	180	215	105	310
PCR product	195	165	285	170	225	240		215	280		145	390
	545	200		215	260				400		240	
					400							
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	800	1070	800	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	127	391	363	98	28	98	363	98	643	363	98	643
	5'-ggT 3'	5'-ACA 3'	5'-ATA 3'	5'-CTT 3'	5'-TCg 3'	5'-CTT 3'	5'-ATA 3'	5'-CTT 3'	5'-CCg 3'	5'-ATA 3'	5'-CTT 3'	5'-CCg 3'
	151	394			363			650	764			652
	5'-gCC 3'	5'-.C 3'			5'-ATA 3'			5'-CCC 3'	5'-CgC 3'			5'-C.A 3'
	3 <sup>rd</sup> I	429							766			733
	5'-ATA 3'	5'-gAA 3'							5'-TgA 3'			5'-ATA 3'
		466							864			
		5'-gCC 3'							5'-gAT 3'			
3'-primer(s) <sup>3</sup>	282	555	538	143	256	204	527	225	899	527	160	899
	5'-gAC 3'	5'-CCA 3'	5'-CCA 3'	5'-CgT 3'	5'-CTg 3'	5'-ATA 3'	5'-CCA 3'	5'-ATT 3'	5'-ACA 3'	5'-CCg 3'	5'-gTg 3'	5'-ACA 3'
	704		605	153	513	295	527	270		539	204	
	5'-CCA 3'		5'-gCA 3'	5'-ACT 3'	5'-TCC 3'	5'-TCA 3'	5'-CCA 3'	5'-ACC 3'		5'-CA 3'	5'-ATA 3'	
				225	545	296		806		540	295	
				5'-ATT 3'	5'-AgA 3'	5'-CTA 3'		5'-CCA 3'		5'-C 3'	5'-TCA 3'	
				270	583					545	298	
				5'-ACT 3'	5'-gTg 3'					5'-AgA 3'	5'-CAg 3'	
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63
Length of spec.	225	190	175
PCR product		245	205
		375	
Length of int. pos. control <sup>1</sup>	1070	1070	800
5'-primer(s) <sup>2</sup>	385	357	363
	5'-ggT 3'	5'-ATg 3'	5'-ATA 3'
		411	
		5'-TAg 3'	
		665	
		5'-TgA 3'	
		853	
		5'-ATA 3'	
3'-primer(s) <sup>3</sup>	570	559	497
	5'-CCg 3'	5'-CgT 3'	5'-Tgg 3'
		899	524
		5'-ACA 3'	5'-CAC 3'
			526
			5'-CTT 3'
Well No.	61	62	63

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

**101.413-24/04 – including *Taq* polymerase, IFU-01**  
**101.413-24u/04u – without *Taq* polymerase, IFU-02**

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**“Instructions for Use” (IFU)**

**Lot No.: 6F4**

**Lot-specific Information**

<sup>2</sup>The nucleotide position 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 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.

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **6F4**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-A*03 SSP subtyping kit <sup>2</sup>																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201549601	201549602	201549603	201549604	201549605	201665006	201549607	201549608	201549609	201549610	201549611	201549612	201784613	201549614	201784615	201549616
IHCW cell line <sup>1</sup>		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	-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	+	-

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **6F4**

Lot-specific Information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-A*03 SSP subtyping kit<sup>2</sup></b>																				
			Prod. No.:	Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				201784617	201784618	201784619	201784620	201549621	201549622	201784623	201549624	201549625	201549626	201784627	201784628	201549629	201549630	201784631	201549632	
	<b>IHWC cell line<sup>1</sup></b>	<b>A*</b>																		
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	+	-	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
30	9021 RSH	*30:01	*68:02	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
31	9019 DUCAF	*30:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	+	-	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
41	9055 H0301	*03:01		+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
47	9045 TUBO	*02:16	*03:01	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **6F4**

Lot-specific Information

CELL LINE VALIDATION SHEET																			
HLA-A*03 SSP subtyping kit <sup>2</sup>																			
				Well															
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
				Prod. No.:															
				201549633	201549634	201549635	201549636	201549637	201549638	201549639	201665040	201549641	201784642	201549643	201549644	201549645	201665046	201549647	201549648
	IHWC cell line <sup>1</sup>		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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **6F4**

Lot-specific Information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-A*03 SSP subtyping kit<sup>2</sup></b>																			
			Prod. No.:	Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	
	IHWC cell line <sup>1</sup>	A*		201784649	201784650	201549651	201784652	201784653	201784654	201784655	201784656	201784657	201784658	201784659	201784660	201549661	201665062	201549663	
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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



**101.413-24/04 – including Taq polymerase, IFU-01**  
**101.413-24u/04u – without Taq polymerase, IFU-02**

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**Lot No.: 6F4**

**Lot-specific Information**

<sup>1</sup>The provided cell line HLA specificities are retrieved from the <http://www.ihwg.org/hla> web site. The specificity of an individual cell line may thus be subject to change.

<sup>2</sup>The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 5 to 7, 13, 16, 19 to 21, 23, 25 to 28, 30 to 32, 34 to 46, 48 to 50, 52 to 54, 56 to 60, 62 and 63 were available.

The specificities of the primers in primer solutions 13, 20, 21, 23, 25, 26, 28, 31, 32, 34, 35, 39, 43 to 45, 49, 52, 53, 56 and 63 were tested by separately adding additional 5'-primers, respectively additional 3'-primers. In primer solutions 6, 7, 16, 30, 36 to 38, 41, 54, 58 and 59 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 5, 19, 27, 40, 42, 46, 48, 50, 57, 60 and 62 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer mixes 1, 3, 13, 15, 17, 23, 28, 31, 34, 43 and 49 one or more of the 5'-primers were not possible to test, and in primer mixes 1, 10, 14, 18, 20 to 22, 26, 32, 34, 35, 39, 43 to 45, 49, 51 to 53, 56 and 63 one to three 3'-primers were not possible to test.

Additional primers in primer mixes 14 and 33 were tested by separately adding one 3'-primer or one or two 5'-primers.

**101.413-24/04 – including *Taq* polymerase, IFU-01**  
**101.413-24u/04u – without *Taq* polymerase, IFU-02**

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**Lot No.: 6F4**

**Lot-specific Information**

**101.413-24/04 – including *Taq* polymerase, IFU-01**  
**101.413-24u/04u – without *Taq* polymerase, IFU-02**

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101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

Visit [www.olerup.com](http://www.olerup.com) for  
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Lot No.: **6F4**

Lot-specific Information

**ADDRESSES:**

**Manufacturer:**

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

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

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

**E-mail:** [olerup-se@caredx.com](mailto:olerup-se@caredx.com)

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

**Distributed by:**

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

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

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

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

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

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

**Tel:** 1-877-OLERUP1

**Fax:** 610-344-7989

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

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

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