

101.512-24/03 – including *Taq* pol., IFU-01  
101.512-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **9G7**

Lot-specific information

## **Olerup SSP® HLA-B\*07**

<b>Product number:</b>	101.512-24/03 – including <i>Taq</i> pol. 101.512-24u/03u – without <i>Taq</i> pol.
<b>Lot number:</b>	9G7
<b>Expiry date:</b>	2021-07-01
<b>Number of tests:</b>	24 tests – Product No. 101.512-24/24u 3 tests – Product No. 101.512-03/03u
<b>Number of wells per test:</b>	88+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. 9G7.**

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

### **CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-B\*07 LOT (4F6)**

The HLA-B\*07 kit is updated for new alleles to enable separation of:

- Null and Alternatively expressed alleles
- The product documentation has been updated for new alleles of IMGT 3.33.0

The format of the Worksheet has been changed.

The HLA-B\*07 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B\*07 lot was made (Lot No. 4F6).

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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
29	Modified	-	5'-primer modified for improved HLA-specific amplification and decreased tendency of primer oligomer formation.
39	-	-	Strength of positive control band has been optimized.
51	-	Added	3'-primer added for the B*07:316N allele.
61	-	Added	3'-primer added for the B*07:316N allele.
65	-	Added	3'-primer added for the B*07:315N allele.
72	-	Added	3'-primer added for the B*07:315N allele.
74	Modified	-	5'-primer modified for increased yield of the B*07:120 allele.
81	-	Modified	3'-primer modified for increased yield of the B*07 alleles.
86	Exchanged	-	5'-primer exchanged for increased allelic resolution.

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Well **89** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP*® 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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## PRODUCT DESCRIPTION

### HLA-B\*07 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*07:02 to B\*07:316N alleles.

#### PLATE LAYOUT

Each test consists of 89 PCR reactions in a 96 well cut PCR plate. Wells 90 to 96 are empty.

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
NC	empty	empty	empty	empty	empty	empty	empty

The 96 well cut PCR plate is marked with 'HLA-B\*07' in silver/gray ink.

Well No. 1 is marked with the Lot Number '9G7'.

Wells 1 to 88 – HLA-B\*07 high resolution primers.

Well 89 – 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-B alleles non-HLA-B\*07 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*07 alleles, i.e. **B\*07:02 to B\*07:316N**, recognized by the HLA Nomenclature Committee in July 2018<sup>1,2</sup> will be amplified by the primers in the HLA-B\*07 subtyping kit<sup>3</sup>.

The HLA-B\*07 kit enables separation of the confirmed HLA-B\*07 alleles as listed in the IMGT/HLA database 3.27.0. 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-B\*07 alleles is listed below.

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**Lot-specific information**

The HLA-B\*07 kit also enables identification of null and alternatively expressed alleles.

The following HLA-B\*07 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
B*07:42, 07:118	26	B*07:89, 07:246	59
B*07:49N, 07:169	73	B*07:94, 07:135	63
B*07:60, 07:100	31	B*07:102, 07:106	69
B*07:61, 07:149	33	B*07:121, 07:126	75
B*07:63, 07:143	35	B*07:129, 07:231N	78

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2018-July-11, release 3.33.0, [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 B\*07:50 and B\*48:08 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or the HLA-B\*48 high resolution kit.

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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>
B*07:02:01:01	Confirmed	B*07:02:49	Unconfirmed	B*07:35	Unconfirmed	B*07:82	Confirmed
B*07:02:01:02	Unconfirmed	B*07:02:50	Unconfirmed	B*07:36	Confirmed	B*07:83	Unconfirmed
B*07:02:01:03	Unconfirmed	B*07:02:51	Unconfirmed	B*07:37	Confirmed	B*07:84	Unconfirmed
B*07:02:02	Confirmed	B*07:03	Confirmed	B*07:38	Confirmed	B*07:85	Unconfirmed
B*07:02:03	Confirmed	B*07:04	Confirmed	B*07:39	Unconfirmed	B*07:86	Confirmed
B*07:02:04	Unconfirmed	B*07:05:01:01	Confirmed	B*07:40	Unconfirmed	B*07:87	Confirmed
B*07:02:05	Unconfirmed	B*07:05:01:02	Unconfirmed	B*07:41	Unconfirmed	B*07:88	Confirmed
B*07:02:06	Unconfirmed	B*07:05:01:03	Unconfirmed	B*07:42	Confirmed	B*07:89	Unconfirmed
B*07:02:07	Confirmed	B*07:05:02	Unconfirmed	B*07:43	Confirmed	B*07:90	Unconfirmed
B*07:02:08	Confirmed	B*07:05:03	Unconfirmed	B*07:44N	Confirmed	B*07:91	Confirmed
B*07:02:09	Unconfirmed	B*07:05:04	Unconfirmed	B*07:45	Unconfirmed	B*07:92	Confirmed
B*07:02:10	Confirmed	B*07:05:05	Confirmed	B*07:46	Unconfirmed	B*07:93	Unconfirmed
B*07:02:11	Unconfirmed	B*07:05:06	Unconfirmed	B*07:47	Confirmed	B*07:94	Confirmed
B*07:02:12	Unconfirmed	B*07:05:07	Unconfirmed	B*07:48	Confirmed	B*07:95	Confirmed
B*07:02:13	Confirmed	B*07:05:08	Confirmed	B*07:49N	Unconfirmed	B*07:96:01	Confirmed
B*07:02:14	Confirmed	B*07:06:01	Confirmed	B*07:50	Unconfirmed	B*07:96:02	Unconfirmed
B*07:02:15	Confirmed	B*07:06:02	Unconfirmed	B*07:51	Confirmed	B*07:97	Unconfirmed
B*07:02:16	Unconfirmed	B*07:07	Confirmed	B*07:52	Unconfirmed	B*07:98	Confirmed
B*07:02:17	Confirmed	B*07:08:01	Confirmed	B*07:53	Confirmed	B*07:99	Unconfirmed
B*07:02:18	Unconfirmed	B*07:08:02	Unconfirmed	B*07:54	Confirmed	B*07:100	Unconfirmed
B*07:02:19	Unconfirmed	B*07:09	Confirmed	B*07:55	Unconfirmed	B*07:101	Unconfirmed
B*07:02:20	Unconfirmed	B*07:10	Confirmed	B*07:56:01	Unconfirmed	B*07:102	Confirmed
B*07:02:21	Confirmed	B*07:11	Unconfirmed	B*07:56:02	Confirmed	B*07:103	Confirmed
B*07:02:22	Unconfirmed	B*07:12	Confirmed	B*07:57	Confirmed	B*07:104	Unconfirmed
B*07:02:23	Confirmed	B*07:13	Confirmed	B*07:58	Unconfirmed	B*07:105	Confirmed
B*07:02:24	Unconfirmed	B*07:14	Confirmed	B*07:59	Unconfirmed	B*07:106	Confirmed
B*07:02:25	Unconfirmed	B*07:15	Confirmed	B*07:60	Unconfirmed	B*07:107	Unconfirmed
B*07:02:26	Unconfirmed	B*07:16	Confirmed	B*07:61	Unconfirmed	B*07:108	Unconfirmed
B*07:02:27	Confirmed	B*07:17	Confirmed	B*07:62	Confirmed	B*07:109	Confirmed
B*07:02:28	Confirmed	B*07:18:01	Unconfirmed	B*07:63	Confirmed	B*07:110	Confirmed
B*07:02:29	Unconfirmed	B*07:18:02	Confirmed	B*07:64	Confirmed	B*07:111N	Confirmed
B*07:02:30	Unconfirmed	B*07:19	Confirmed	B*07:65	Unconfirmed	B*07:112	Unconfirmed
B*07:02:31	Unconfirmed	B*07:20	Confirmed	B*07:66	Unconfirmed	B*07:113	Unconfirmed
B*07:02:32	Unconfirmed	B*07:21	Unconfirmed	B*07:67N	Unconfirmed	B*07:114	Unconfirmed
B*07:02:33	Confirmed	B*07:22:01	Unconfirmed	B*07:68:01	Confirmed	B*07:115	Unconfirmed
B*07:02:34	Confirmed	B*07:22:02	Confirmed	B*07:68:02	Confirmed	B*07:116	Unconfirmed
B*07:02:35	Confirmed	B*07:23	Unconfirmed	B*07:68:03	Confirmed	B*07:117	Unconfirmed
B*07:02:36	Confirmed	B*07:24	Confirmed	B*07:69	Confirmed	B*07:118	Unconfirmed
B*07:02:37	Unconfirmed	B*07:25	Unconfirmed	B*07:70	Unconfirmed	B*07:119	Confirmed
B*07:02:38	Unconfirmed	B*07:26	Confirmed	B*07:71	Confirmed	B*07:120	Unconfirmed
B*07:02:39	Unconfirmed	B*07:27	Unconfirmed	B*07:72	Confirmed	B*07:121	Unconfirmed
B*07:02:40	Unconfirmed	B*07:28	Unconfirmed	B*07:73	Confirmed	B*07:122	Confirmed
B*07:02:41	Confirmed	B*07:29	Unconfirmed	B*07:74	Confirmed	B*07:123	Unconfirmed
B*07:02:42	Unconfirmed	B*07:30	Unconfirmed	B*07:75	Unconfirmed	B*07:124	Unconfirmed
B*07:02:43	Unconfirmed	B*07:31	Confirmed	B*07:76	Confirmed	B*07:125	Confirmed
B*07:02:44	Unconfirmed	B*07:32	Confirmed	B*07:77	Confirmed	B*07:126	Confirmed
B*07:02:45	Confirmed	B*07:33:01	Confirmed	B*07:78	Unconfirmed	B*07:127	Unconfirmed
B*07:02:46	Unconfirmed	B*07:33:02	Unconfirmed	B*07:79	Unconfirmed	B*07:128	Unconfirmed
B*07:02:47	Unconfirmed	B*07:33:03	Unconfirmed	B*07:80	Confirmed	B*07:129	Unconfirmed
B*07:02:48	Confirmed	B*07:34	Unconfirmed	B*07:81	Unconfirmed	B*07:130	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>
<b>B*07:131</b>	<b>Confirmed</b>	B*07:179	Unconfirmed	B*07:228:02	Unconfirmed	B*07:277	Unconfirmed
<b>B*07:132</b>	<b>Confirmed</b>	B*07:180	Unconfirmed	B*07:229	Unconfirmed	<b>B*07:278</b>	<b>Confirmed</b>
B*07:133	Unconfirmed	B*07:181N	Unconfirmed	B*07:230	Unconfirmed	B*07:279	Unconfirmed
B*07:134	Unconfirmed	B*07:182N	Unconfirmed	B*07:231N	Unconfirmed	B*07:280	Unconfirmed
B*07:135N	Unconfirmed	B*07:183	Unconfirmed	B*07:232	Unconfirmed	B*07:281	Unconfirmed
<b>B*07:136:01</b>	<b>Confirmed</b>	B*07:184	Unconfirmed	B*07:233	Unconfirmed	B*07:282	Unconfirmed
B*07:136:02	Unconfirmed	B*07:185	Unconfirmed	B*07:234	Unconfirmed	B*07:283	Unconfirmed
B*07:137	Unconfirmed	B*07:186	Unconfirmed	B*07:235	Unconfirmed	B*07:284	Unconfirmed
B*07:138	Unconfirmed	B*07:187	Unconfirmed	B*07:236	Unconfirmed	B*07:285N	Unconfirmed
B*07:139	Unconfirmed	B*07:188	Unconfirmed	<b>B*07:237</b>	<b>Confirmed</b>	B*07:286	Unconfirmed
B*07:140	Unconfirmed	B*07:189	Unconfirmed	<b>B*07:238</b>	<b>Confirmed</b>	B*07:287	Unconfirmed
B*07:141	Unconfirmed	B*07:190	Unconfirmed	B*07:239	Unconfirmed	B*07:288	Unconfirmed
B*07:142	Unconfirmed	B*07:191	Unconfirmed	B*07:240	Unconfirmed	B*07:289	Unconfirmed
<b>B*07:143</b>	<b>Confirmed</b>	B*07:192	Unconfirmed	B*07:241	Unconfirmed	B*07:290	Unconfirmed
B*07:144	Unconfirmed	B*07:193	Unconfirmed	B*07:242	Unconfirmed		
B*07:145	Unconfirmed	B*07:194	Unconfirmed	B*07:243	Unconfirmed		
B*07:146	Unconfirmed	B*07:195	Unconfirmed	B*07:244	Unconfirmed		
B*07:147	Unconfirmed	B*07:196	Unconfirmed	B*07:245	Unconfirmed		
<b>B*07:148</b>	<b>Confirmed</b>	B*07:197	Unconfirmed	<b>B*07:246</b>	<b>Confirmed</b>		
<b>B*07:149</b>	<b>Confirmed</b>	B*07:198	Unconfirmed	B*07:247	Unconfirmed		
B*07:150	Unconfirmed	B*07:199	Unconfirmed	<b>B*07:248</b>	<b>Confirmed</b>		
<b>B*07:151:01</b>	<b>Confirmed</b>	B*07:200	Unconfirmed	B*07:249	Unconfirmed		
B*07:151:02	Unconfirmed	B*07:201N	Unconfirmed	B*07:250	Unconfirmed		
B*07:152	Unconfirmed	B*07:202	Unconfirmed	B*07:251N	Unconfirmed		
B*07:153	Unconfirmed	B*07:203	Unconfirmed	B*07:252	Unconfirmed		
B*07:154	Unconfirmed	B*07:204	Unconfirmed	B*07:253	Unconfirmed		
B*07:155	Unconfirmed	B*07:205	Unconfirmed	B*07:254	Unconfirmed		
B*07:156	Unconfirmed	<b>B*07:206</b>	<b>Confirmed</b>	B*07:255	Unconfirmed		
B*07:157	Unconfirmed	B*07:207	Unconfirmed	B*07:256	Unconfirmed		
B*07:158	Unconfirmed	<b>B*07:208</b>	<b>Confirmed</b>	B*07:257	Unconfirmed		
B*07:159	Unconfirmed	B*07:209	Unconfirmed	B*07:258	Unconfirmed		
<b>B*07:160</b>	<b>Confirmed</b>	B*07:210	Unconfirmed	B*07:259	Unconfirmed		
B*07:161N	Unconfirmed	B*07:211	Unconfirmed	B*07:260	Unconfirmed		
B*07:162	Unconfirmed	B*07:212	Unconfirmed	B*07:261	Unconfirmed		
<b>B*07:163</b>	<b>Confirmed</b>	B*07:213	Unconfirmed	<b>B*07:262</b>	<b>Confirmed</b>		
B*07:164	Unconfirmed	B*07:214	Unconfirmed	B*07:263	Unconfirmed		
B*07:165	Unconfirmed	B*07:215	Unconfirmed	B*07:264	Unconfirmed		
B*07:166	Unconfirmed	B*07:216	Unconfirmed	B*07:265	Unconfirmed		
B*07:167N	Unconfirmed	B*07:217	Unconfirmed	B*07:266	Unconfirmed		
B*07:168	Unconfirmed	<b>B*07:218</b>	<b>Confirmed</b>	B*07:267	Unconfirmed		
B*07:169	Unconfirmed	<b>B*07:219</b>	<b>Confirmed</b>	B*07:268	Unconfirmed		
B*07:170	Unconfirmed	B*07:220	Unconfirmed	B*07:269	Unconfirmed		
B*07:171	Unconfirmed	B*07:221	Unconfirmed	B*07:270	Unconfirmed		
B*07:172	Unconfirmed	<b>B*07:222</b>	<b>Confirmed</b>	B*07:271	Unconfirmed		
B*07:173	Unconfirmed	B*07:223	Unconfirmed	B*07:272N	Unconfirmed		
<b>B*07:174</b>	<b>Confirmed</b>	B*07:224	Unconfirmed	B*07:273	Unconfirmed		
<b>B*07:175</b>	<b>Confirmed</b>	B*07:225	Unconfirmed	B*07:274	Unconfirmed		
B*07:176	Unconfirmed	B*07:226	Unconfirmed	B*07:275	Unconfirmed		
B*07:177	Unconfirmed	B*07:227	Unconfirmed	<b>B*07:276:01</b>	<b>Confirmed</b>		
B*07:178	Unconfirmed	B*07:228:01	Unconfirmed	B*07:276:02	Unconfirmed		

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2017-January-20, release 3.27.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**RESOLUTION IN HOMO- AND HETEROZYGOTES**

Results file with resolution in HLA-B\*07 homo- and heterozygotes is available upon request.

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Lot-specific information  
**SPECIFICITY TABLE**

**HLA-B\*07 SSP subtyping**

Specificities and sizes of the PCR products of the 88+1 primer mixes used for  
HLA-B\*07 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-B*07 alleles <sup>3</sup>	Other amplified HLA Class I alleles
1	395 bp	800 bp	*07:02:01:01-07:02:27, 07:02:29-07:02:55, 07:04:01- 07:07, 07:09, 07:10 <sup>w</sup> , 07:11- 07:12, 07:14-07:15, 07:17- 07:26, 07:28-07:31, 07:33:01-07:36, 07:39- 07:49N, 07:51-07:64, 07:66- 07:68:03, 07:70-07:82, 07:84, 07:86-07:124, 07:126- 07:179, 07:181N-07:182N, 07:184-07:206, 07:208- 07:218, 07:220-07:227, 07:229-07:258, 07:260- 07:270, 07:272N-07:291, 07:293-07:305, 07:307- 07:316N	*08:123, 08:132, 14:21, 38:26, 40:166 <sup>?</sup> , 42:01:01-42:02:01:02, 42:04-42:06, 42:08- 42:10, 42:12-42:25, 45:06, 67:01:01- 67:01:03, 67:03-67:07, 73:01 <sup>w</sup> -73:02 <sup>w</sup> , 81:02
2	285 bp	1070 bp	*07:02:01:01-07:06:03, 07:08:01-07:11, 07:13, 07:15-07:17, 07:20-07:32, 07:34-07:39, 07:41-07:52, 07:54-07:59, 07:61-07:76, 07:79-07:83, 07:85-07:99, 07:101-07:121, 07:123- 07:136:02, 07:138, 07:140- 07:161N, 07:164, 07:166- 07:192, 07:194-07:195, 07:199-07:213, 07:215- 07:224, 07:226, 07:228:01- 07:234, 07:236-07:238, 07:240-07:247, 07:249- 07:254, 07:256-07:316N	*08:79, 08:156, 08:187, 27:164, 35:66, 37:07, 40:15-40:16, 40:31-40:32, 40:45, 40:80, 40:98, 42:05:01-42:05:02, 48:01:01:01-48:01:06, 48:05-48:12, 48:14- 48:16, 48:18-48:20, 48:22, 48:27-48:39, 48:41-48:46, 81:01:01-81:08
3	235 bp	1070 bp	*07:02:01:01-07:04:02, 07:07-07:13, 07:15-07:16, 07:18:01-07:18:02, 07:20- 07:27, 07:29-07:31, 07:35- 07:39, 07:41-07:52, 07:54- 07:59, 07:61-07:68:03, 07:70-07:73, 07:75:01:01- 07:77, 07:79, 07:81-07:89, 07:91-07:95, 07:98-07:99, 07:101-07:104, 07:106- 07:111N, 07:113-07:114, 07:116-07:121, 07:124- 07:136:02, 07:141-07:153, 07:155-07:164,	*08:156, 15:138, 15:241, 18:35, 18:110, 35:66, 37:07, 40:31-40:33, 40:52, 40:59, 40:98, 40:352, 46:06, 48:08, 48:23, 48:46, <b>C*02:23</b>

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<b>4<sup>4</sup></b>	105 bp	<b>800 bp</b>	*07:02:01:01-07:02:25, 07:02:27-07:03, 07:05:01:01-07:18:02, 07:20-07:24, 07:27-07:32, 07:35-07:39, 07:41-07:42, 07:44N-07:47, 07:49N-07:52, 07:54, 07:56:01-07:59, 07:61-07:65, 07:67N-07:79, 07:81-07:99, 07:101-07:121, 07:123-07:130, 07:132-07:138, 07:140-07:145, 07:148-07:163, 07:166-07:208, 07:210-07:222, 07:224-07:225, 07:227-07:234, 07:236-07:250, 07:252-07:316N	*08:79, 08:156, 35:66, 37:07, 40:15-40:16, 40:23, 40:32, 40:98, 40:128, 40:198, 44:150, 48:05, 48:08, <b>C*04:77</b>
<b>5</b>	220 bp	1070 bp	*07:02:01:01-07:02:55, 07:04:01-07:07, 07:09-07:15, 07:17-07:26, 07:28, 07:30-07:31, 07:33:01-07:36, 07:39-07:49N, 07:51-07:64, 07:66-07:68:03, 07:73-07:84, 07:87-07:179, 07:181N-07:183, 07:185, 07:186 <sup>w</sup> , 07:187-07:203, 07:205-07:206, 07:208-07:209, 07:211-07:218, 07:220-07:227, 07:229-07:231N, 07:233-07:305, 07:307-07:312, 07:313 <sup>w</sup> , 07:314-07:316N	*27:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:105, 27:107-27:118, 27:120-27:128, 27:130-27:136, 27:138-27:145, 27:147-27:152, 27:154-27:175, 37:60, 38:26, 42:01:01-42:02:01:02, 42:04-42:06, 42:08-42:10, 42:12-42:23, 42:25, 54:02, 55:10, 55:82, 56:35, 67:01:01-67:07, 73:01-73:02, 81:01:01-81:08, <b>C*03:137, C*03:182, C*07:102<sup>w</sup>, C*07:351, C*12:82, C*16:116</b>
<b>6</b>	215 bp	1070 bp	*07:03, 07:08:01-07:08:02, 07:16, 07:27, 07:32, 07:38, 07:50, 07:69, 07:85, 07:180, 07:207, 07:228:01-07:228:02, 07:306	*08:94, 08:190 <sup>w</sup> , 13:14, 13:83, 14:01:01:01-14:01:05, 14:01:07, 14:07N-14:08:02, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 14:40, 14:46-14:47, 14:49, 14:53-14:55, 15:68, 15:71, 15:175, 15:381, 18:01:01:01-18:01:12, 18:01:14-18:03:02, 18:05:01:01-18:15, 18:17N-18:24, 18:26-18:67, 18:69, 18:71-18:106, 18:108-18:124, 18:126-18:149, 27:12:01:01-27:12:01:02, 27:16, 27:18, 27:23, 27:29,

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<b>7<sup>4</sup></b>	100 bp 215 bp	1070 bp	*07:04:01-07:04:02, 07:25, 07:52, 07:146 *07:29, 07:186	*08:187, 40:136, 40:231, 40:279, 41:08, 42:05:01-42:05:02 *08:123, 08:132, <b>C*07:335</b>
<b>8</b>	160 bp 235 bp	1070 bp	*07:59 *07:05:01:01-07:06:03, 07:32, 07:34, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206-07:207, 07:209-07:210, 07:213-07:214, 07:222, 07:249, 07:258, 07:262, 07:264, 07:269-07:270, 07:278, 07:283, 07:287, 07:293, 07:304	*08:79, 08:187, 27:125, 27:164, 38:63, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29-40:01:31, 40:01:33-40:01:50, 40:01:52-40:01:53, 40:07, 40:10:01:01-40:10:02, 40:12, 40:14:01-40:16, 40:21-40:23, 40:25, 40:30, 40:34, 40:36, 40:38, 40:43, 40:45-40:49, 40:54-40:55, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114:02, 40:116-40:118N, 40:121, 40:123, 40:125-40:126, 40:128, 40:132, 40:134-40:141,

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<b>10</b>	285 bp	<b>800 bp</b>	*07:07, 07:12, 07:14, 07:18:01-07:18:02, 07:77, 07:137, 07:162-07:163, 07:193, 07:214, 07:248, 07:255	*15:138, 15:230, 15:241, 15:297, 18:35, 18:110, 27:125, 38:63, 40:01:01-40:01:17, 40:01:19-40:01:50, 40:01:52-40:01:53, 40:07, 40:10:01:01-40:10:02, 40:12, 40:14:01-40:14:03, 40:21-40:23, 40:25, 40:33, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:52, 40:54-40:55, 40:59-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114:02, 40:116-40:118N, 40:121, 40:123-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 40:182-40:183, 40:185-40:188, 40:191-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:234-40:242, 40:245, 40:247, 40:249-40:253, 40:257-40:265N, 40:272-40:273, 40:277-40:282, 40:285-40:286N, 40:288, 40:299-40:301, 40:308, 40:310, 40:312, 40:315, 40:319, 40:321, 40:323-40:329, 40:332-40:333, 40:338N-40:339, 40:344, 40:346, 40:352-40:353, 40:355, 40:357-40:358, 40:360, 40:365, 40:367-40:368, 40:370, 41:08, 44:31, 44:150, 46:06, 48:03:01-48:03:02, 48:17, 48:23, 48:40, <b>C*02:23, C*03:260, C*04:77, C*07:38:01-07:38:02</b>
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19	205 bp	<b>800 bp</b>	*07:20, 07:140, 07:153	*15:14, 15:91, 15:131, 15:161, 18:56, 35:45, 35:71, 35:169, 35:309, 40:132, 40:178, 44:10, 44:14, 44:17, 44:31, 44:43:01-44:43:02, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 44:135, 44:184, 44:213, 44:230, 45:09, 45:14, 46:17, 51:23, 51:108, 52:15, 53:22, 57:07, 57:93, 58:07, 82:01:01:01-82:03
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	295 bp		*07:35	
20	160 bp 205 bp	1070 bp	*07:59 *07:51, 07:220, 07:226	*08:143, <b>C*07:294, C*07:526, C*07:530, C*08:08:01-08:08:02</b>
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21 <sup>4,5</sup>	100 bp 165 bp	1070 bp	*07:52 *07:22:01-07:22:02	
22	220 bp	1070 bp	*07:23	*18:95, <b>C*07:75, C*07:254</b>
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<b>25<sup>8</sup></b>	305 bp 425 bp	1070 bp	*07:117 *07:27, 07:236, 07:240	*40:250 *08:126, 08:131, 08:139, 38:17, 40:188 <sup>?</sup>
<b>26<sup>4</sup></b>	95 bp  205 bp  235 bp	<b>800 bp</b>	*07:28, 07:118  *07:51, 07:220, 07:226  *07:20, 07:24, 07:60, 07:100, 07:131, 07:220, 07:223	*08:14, 08:87, 27:32, 40:180, 44:54, 44:106, 44:135 *08:143, <b>C*07:294, C*07:526, C*07:530, C*08:08:01-08:08:02</b> *08:21, 08:25, 08:175, 15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:431, 15:450, 35:05:01:01-35:05:03, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 35:232, 35:368, 40:05:01:01-40:05:01:02, 40:71, 40:174, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, <b>C*03:05, C*03:25, C*03:27, C*03:167, C*03:296:01-03:296:02, C*03:335</b>
	290 bp		*07:42	
<b>27</b>	165 bp 215 bp	<b>800 bp</b>	*07:41 *07:29, 07:186	*08:123, 08:132, <b>C*07:335</b>
<b>28<sup>4,7</sup></b>	110 bp	1070 bp	*07:30	*27:159
<b>29<sup>4,5</sup></b>	85 bp	<b>800 bp</b>	*07:31, 07:34, 07:43	*08:187, 18:110, 40:199, 41:08, 42:05:01-42:05:02, 48:37, <b>C*07:38:01-07:38:02</b>
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<b>30</b>	190 bp	<b>800 bp</b>	*07:05:01:01-07:06:03, 07:32, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206-07:207, 07:209-07:210, 07:213-07:214, 07:222, 07:249, 07:258, 07:262, 07:264, 07:270, 07:278, 07:283, 07:287, 07:293, 07:304	*08:40, 08:79, 08:165, 08:171, 13:01:01:01-13:01:02, 13:01:04-13:02:16, 13:02:18-13:02:22, 13:07N-13:09, 13:11, 13:13:01-13:23, 13:25, 13:27-13:33, 13:36-13:45, 13:47, 13:49N-13:50, 13:52, 13:54-13:61, 13:63N-13:71, 13:73-13:78, 13:80-13:85, 13:87-13:111, 27:07:01-27:07:06, 27:11, 27:20, 27:24, 27:27, 27:33, 27:43, 27:125, 27:130, 27:164, 27:168, 35:31, 35:88, 35:230, 38:63, 39:47, 39:50, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29-40:01:31, 40:01:33-40:01:50, 40:01:52-40:02:09, 40:02:11-40:02:12, 40:02:14-40:02:17, 40:02:19-40:02:25, 40:04, 40:06:01:01-40:06:09, 40:06:11-40:08, 40:10:01:01-40:16, 40:19, 40:21-40:23, 40:25, 40:27:01-40:27:02, 40:29-40:30, 40:34-40:38, 40:40, 40:43, 40:45-40:50, 40:53-40:58, 40:61-40:62, 40:64:01:01-40:70:02, 40:72:01-40:88, 40:90-40:91, 40:93-40:97, 40:99-40:119, 40:121-40:123, 40:125-40:130:02, 40:132,

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<b>31</b>	215 bp	<b>800 bp</b>	*07:55, 07:100	*08:70, 15:07:01:01-15:07:03, 15:45, 15:68, 15:126, 15:207, 15:324, 15:331, 15:405, 15:431, 15:450, 46:12, 48:19, <b>C*02:60</b>
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<b>33<sup>4,5</sup></b>	90 bp	1070 bp	*07:149	*08:02, 08:117, 13:36, 15:89, 15:115, 18:09, 38:02:01-38:02:06, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 38:43-38:50, 38:62, 38:64, 44:12, 44:232, 44:263, 51:54, 51:78:01-51:78:02, 53:09, 53:11-53:13, 53:31, 53:36, 56:07, 59:08
	350 bp		*07:61	
<b>34</b>	155 bp	1070 bp	*07:62, 07:90	
<b>35<sup>4,7</sup></b>	105 bp	1070 bp	*07:63	
	215 bp		*07:143	*27:157, 40:166, 42:02:01:01-42:02:01:02, 42:09, 42:17-42:18, 45:06, 54:02, 55:16, 56:35

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<b>37</b>	210 bp	1070 bp	*07:65, 07:206	*08:26:03, 15:32:02, 18:04:01, 18:125, 35:08:05, 35:42:02, 35:185, 39:63, 40:01:11, 40:58, 46:40:01, 56:05:01, 56:06, 78:01:01:01-78:01:02, 78:02:02-78:03, 78:07-78:09
<b>38<sup>7</sup></b>	190 bp 215 bp	1070 bp	*07:103, 07:113 *07:66	*08:64
<b>39<sup>6,11</sup></b>	425 bp	1070 bp	*07:05:01:01-07:06:03, 07:34, 07:40, 07:53, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123 <sup>w</sup> , 07:137-07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206, 07:209- 07:210, 07:213, 07:222, 07:249, 07:258, 07:262, 07:264, 07:269-07:270, 07:278, 07:283-07:284, 07:293, 07:304	*08:123, 08:132, 08:146, 39:126, 40:61 <sup>w</sup> , 40:166, 42:01:01 <sup>w</sup> -42:02:01:02 <sup>w</sup> , 42:04 <sup>w</sup> - 42:05:02 <sup>w</sup> , 42:07 <sup>w</sup> -42:08 <sup>w</sup> , 42:10 <sup>w</sup> , 42:12 <sup>w</sup> - 42:15 <sup>w</sup> , 42:17 <sup>w</sup> -42:19 <sup>w</sup> , 42:21 <sup>w</sup> -42:24 <sup>w</sup> , 42:25, 54:04, 54:11, 55:04, 55:08, 55:17, 55:20, 55:28, 55:49, 55:51, 55:81, 55:86, 56:05:01-56:06, 56:12, 56:15, 56:21, 81:01:01-81:04N, 81:06-81:08
<b>40<sup>7</sup></b>	265 bp  395 bp	1070 bp	*07:56:01-07:56:02, 07:72, 07:206  *07:83	*08:26:01-08:26:03, 08:56:01-08:56:02, 08:180, 14:54, 38:28, 39:63, 39:135, 40:21 <sup>?</sup> , 40:58 <sup>?</sup> , 40:137 <sup>?</sup> , 40:248 <sup>?</sup> , 40:282 <sup>?</sup> , 40:325 <sup>?</sup> , 40:351 <sup>?</sup> , 40:364 <sup>?</sup> -40:365 <sup>?</sup> , 41:12, 41:36, 42:21, 49:03, 49:48
<b>41</b>	400 bp 425 bp	1070 bp	*07:58 *07:156	*08:191
<b>42</b>	195 bp 225 bp	1070 bp	*07:67N *07:71	
<b>43</b>	185 bp	1070 bp	*07:68:01-07:68:03, 07:214, 07:237, 07:262	*15:138, 15:230, 15:241, 15:297, 18:35, 18:110, 35:66, 40:77, 40:87:01-40:87:02, 40:121, 40:158, 40:222, 40:237, 40:368, 44:150, 48:12, 48:14, 48:26, 48:29
<b>44<sup>7</sup></b>	270 bp 150 bp	1070 bp	*07:272N *07:10	*27:75 <sup>w</sup> , 37:60 <sup>w</sup> , 73:01 <sup>w</sup> -73:02 <sup>w</sup>
<b>45<sup>4</sup></b>	105 bp	1070 bp	*07:27, 07:50	*08:04:01-08:04:02, 08:17, 08:54:01- 08:54:02, 08:110, 13:97, 15:03:01:01- 15:03:07, 15:47:01-15:47:02, 15:54, 15:61- 15:62, 15:64:01-15:64:02, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242:01-15:242:02, 15:253, 15:259, 15:266, 15:274, 15:281-15:282, 15:369, 15:379, 15:389, 15:397, 15:444, 15:448, 18:37:01-18:37:02, 18:125, 27:18, 27:29, 35:361, 37:28, 38:03, 39:02:01-39:02:03, 39:08, 39:13:01-39:13:02, 39:23, 39:39:01- 39:39:02, 39:49, 39:88, 39:101, 39:105, 39:110, 40:12, 40:46, 40:93, 42:11, 44:40, 44:44, 44:130, 44:156, 44:210:01- 44:210:02, 48:01:01:01-48:05, 48:07- 48:30, 48:32-48:40, 48:42-48:46, 52:16, 55:18, 56:44

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<b>46</b>	425 bp	1070 bp	*07:13, 07:15, 07:92, 07:253 <sup>w</sup> , 07:304	*08:15, 39:27, 40:73, 67:02, 73:01 <sup>w</sup> -73:02 <sup>w</sup>
<b>47</b>	215 bp	<b>800 bp</b>	*07:04:01-07:04:02, 07:19, 07:25, 07:146	*08:01:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:14-08:15, 08:17-08:19N, 08:21-08:24, 08:26:01-08:39, 08:41-08:48, 08:50-08:54:02, 08:56:01-08:59:02, 08:61-08:69, 08:71-08:78, 08:80-08:83, 08:85-08:88, 08:90-08:106, 08:108-08:128, 08:130-08:142, 08:144-08:155, 08:157-08:170, 08:172-08:180, 08:182-08:183, 08:185-08:196, 35:87, 37:09, 41:02:01:01-41:02:07, 41:04, 41:10-41:11, 41:13, 41:15, 41:18-41:19, 41:23-41:24, 41:27, 41:31, 41:36, 41:38-41:43, 41:45N-41:47, 41:49, 41:51-41:52, 41:55, 42:01:01-42:02:01:02, 42:05:01-42:12, 42:14-42:18, 42:20-42:25, 44:106, 44:158, 44:166, 44:213
<b>48</b>	200 bp 280 bp	1070 bp	*07:76 *07:77, 07:193	*40:60, 40:245, <b>C*07:38:01-07:38:02</b>
<b>49</b>	200 bp	1070 bp	*07:82	*44:129
<b>50<sup>4</sup></b>	75 bp 105 bp 165 bp	1070 bp	*07:74 *07:175 *07:87	*08:77, 48:27 *15:126
<b>51</b>	335 bp 470 bp	1070 bp	*07:97, 07:316N *07:93	*08:114, 39:100 *08:39, 38:27
<b>52<sup>7</sup></b>	290 bp	<b>800 bp</b>	*07:95	*40:233
<b>53<sup>7</sup></b>	235 bp	<b>800 bp</b>	*07:14, 07:17, 07:28, 07:96:01-07:96:02, 07:115, 07:197, 07:225, 07:260, 07:284	*15:230, 15:297, 27:36, 40:42, 40:60, 40:124:01-40:124:02, 40:172, 40:280, 44:150, 48:17, 48:26, <b>C*03:260, C*04:77,</b> <b>C*07:38:01-07:38:02</b>
<b>54<sup>5</sup></b>	160 bp 185 bp	1070 bp	*07:238 *07:98, 07:167N, 07:201N	
<b>55</b>	260 bp	1070 bp	*07:99, 07:276:01-07:276:02	
<b>56<sup>5,7</sup></b>	230 bp	1070 bp	*07:20, 07:24, 07:45, 07:60, 07:100, 07:131, 07:220, 07:223	*08:21, 08:25, 08:175, 15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:431, 15:450, 35:05:01:01-35:05:03, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 35:232, 35:368, 40:05:01:01-40:05:01:02, 40:71, 40:174, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, <b>C*03:05, C*03:25, C*03:27, C*03:167, C*03:296:01-03:296:02, C*03:335</b>
<b>57</b>	150 bp 215 bp	1070 bp	*07:109 *07:70	
<b>58<sup>5</sup></b>	245 bp 440 bp	1070 bp	*07:112 *07:79	
<b>59<sup>4</sup></b>	100 bp	<b>800 bp</b>	*07:115, 07:182N, 07:246	*08:69, 14:05, 38:19, 39:03:01:01-39:03:01:02, 39:24:01-39:24:02, 39:37, 39:76, 39:120, 40:71, 40:314, 41:18, 42:06, 42:20, 48:07, <b>C*08:08:01-08:08:02</b>

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	190 bp		*07:89, 07:113	*08:64
<b>60</b>	145 bp	1070 bp	*07:73	*27:157, 40:166, 44:90, 45:06
<b>61</b>	205 bp 325 bp 420 bp	1070 bp	*07:88 *07:316N *07:105	
<b>62</b>	415 bp	<b>800 bp</b>	*07:16, 07:27, 07:37:01-07:38, 07:50, 07:75:01:01-07:75:01:02, 07:91, 07:180, 07:207, 07:219, 07:228:01-07:228:02, 07:306	*08:03, 08:23, 08:54:01-08:54:02, 08:110, 08:133, 08:139, 14:14, 14:18, 15:68, 38:01:01:01-38:02:07, 38:04-38:12, 38:15-38:25, 38:27-38:40, 38:42-38:71, 39:05:01:01-39:05:03, 39:07-39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37, 39:49, 39:55-39:56, 39:113, 39:118, 40:01:01-40:01:50, 40:01:52-40:01:53, 40:06:16 <sup>?</sup> , 40:07, 40:09 <sup>?</sup> , 40:14:01 <sup>?</sup> -40:14:02 <sup>?</sup> , 40:14:03, 40:15 <sup>?</sup> , 40:16, 40:18 <sup>?</sup> -40:19 <sup>?</sup> , 40:21 <sup>?</sup> -40:22N <sup>?</sup> , 40:23, 40:24 <sup>?</sup> -40:25 <sup>?</sup> , 40:27:02 <sup>?</sup> -40:29 <sup>?</sup> , 40:30-40:32, 40:33 <sup>?</sup> -40:36 <sup>?</sup> , 40:38 <sup>?</sup> , 40:42, 40:44 <sup>?</sup> -40:47 <sup>?</sup> , 40:48, 40:49 <sup>?</sup> , 40:51-40:52, 40:53 <sup>?</sup> , 40:54, 40:55 <sup>?</sup> -40:58 <sup>?</sup> , 40:59-40:60, 40:61 <sup>?</sup> -40:63 <sup>?</sup> , 40:65 <sup>?</sup> , 40:67 <sup>?</sup> -40:69 <sup>?</sup> , 40:71 <sup>?</sup> , 40:72:01-40:73, 40:74 <sup>?</sup> -40:76 <sup>?</sup> , 40:77, 40:78 <sup>?</sup> , 40:79, 40:80 <sup>?</sup> -40:88 <sup>?</sup> , 40:91 <sup>?</sup> -40:93 <sup>?</sup> , 40:95 <sup>?</sup> -40:96 <sup>?</sup> , 40:98 <sup>?</sup> , 40:100 <sup>?</sup> -40:112 <sup>?</sup> , 40:113-40:114:01, 40:114:02 <sup>?</sup> -40:116 <sup>?</sup> , 40:117, 40:118N <sup>?</sup> -40:121 <sup>?</sup> , 40:123 <sup>?</sup> , 40:124:01, 40:124:02 <sup>?</sup> -40:130:01 <sup>?</sup> , 40:130:02, 40:131 <sup>?</sup> -40:137 <sup>?</sup> , 40:138-40:140, 40:141 <sup>?</sup> , 40:145 <sup>?</sup> , 40:146, 40:148 <sup>?</sup> -40:149 <sup>?</sup> , 40:150, 40:151 <sup>?</sup> , 40:152-40:153, 40:154 <sup>?</sup> , 40:155:01N-40:155:02N, 40:156 <sup>?</sup> -40:165 <sup>?</sup> , 40:167 <sup>?</sup> -40:169 <sup>?</sup> , 40:170-40:172, 40:173 <sup>?</sup> -40:182 <sup>?</sup> , 40:183, 40:184 <sup>?</sup> -40:185 <sup>?</sup> , 40:186:01, 40:186:02 <sup>?</sup> -40:213 <sup>?</sup> , 40:215 <sup>?</sup> -40:228 <sup>?</sup> , 40:231 <sup>?</sup> -40:236 <sup>?</sup> , 40:237, 40:238 <sup>?</sup> -40:244 <sup>?</sup> , 40:245, 40:246 <sup>?</sup> -40:248 <sup>?</sup> , 40:249-40:253, 40:257 <sup>?</sup> , 40:258-40:265N, 40:272-40:273, 40:274 <sup>?</sup> -40:276 <sup>?</sup> , 40:277-40:278, 40:279 <sup>?</sup> -40:283 <sup>?</sup> , 40:285-40:286N, 40:287 <sup>?</sup> -40:295 <sup>?</sup> , 40:297 <sup>?</sup> -40:300 <sup>?</sup> , 40:301, 40:306 <sup>?</sup> -40:308 <sup>?</sup> , 40:310 <sup>?</sup> -40:313 <sup>?</sup> , 40:315 <sup>?</sup> , 40:316-40:317, 40:318 <sup>?</sup> -40:319 <sup>?</sup> , 40:321, 40:322 <sup>?</sup> , 40:323, 40:324 <sup>?</sup> -40:330 <sup>?</sup> , 40:332, 40:333 <sup>?</sup> , 40:335 <sup>?</sup> -40:344 <sup>?</sup> , 40:346, 40:348 <sup>?</sup> -40:352 <sup>?</sup> , 40:354 <sup>?</sup> , 40:355, 40:357 <sup>?</sup> -40:359 <sup>?</sup> , 40:361N <sup>?</sup> , 40:363 <sup>?</sup> -40:365 <sup>?</sup> , 40:367-40:368, 40:370, 41:01:01:01-41:26, 41:28-41:46, 41:48-41:55, 42:11, 44:15:01:02, 44:18, 45:01:01-45:05, 45:07-45:23, 48:01:01:01-48:46, 49:01:01:01-49:14, 49:16-49:50, 50:01:01:01-50:01:01:02, 50:01:02 <sup>?</sup> , 50:01:03-50:01:04, 50:01:06-50:02, 50:04-50:20, 50:31-50:51, 50:53-50:55
<b>63<sup>4</sup></b>	65 bp	1070 bp	*07:94	*67:04, <b>C*02:120, C*03:124, C*04:49, C*05:15, C*07:262, C*07:417, C*07:475, C*08:153, C*12:95</b>

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	230 bp		*07:135N	
<b>64<sup>6</sup></b>	170 bp	1070 bp	*07:69, 07:85, 07:180, 07:306	*08:65, 14:01:01:01-14:20, 14:22-14:35, 14:37-14:41N, 14:43-14:47, 14:50-14:53, 14:55-14:56, 14:58-14:61, 15:09:01- 15:10:04, 15:18:01:01-15:18:07, 15:23, 15:37, 15:51-15:52, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:161, 15:176, 15:186, 15:197:01-15:198, 15:200, 15:221, 15:226N, 15:229, 15:238, 15:243, 15:252, 15:263, 15:275:01- 15:275:02, 15:290, 15:292-15:294N, 15:306-15:307, 15:311-15:314, 15:323, 15:329, 15:335, 15:337-15:338, 15:351, 15:354, 15:376, 15:380N, 15:382, 15:388, 15:414, 15:426-15:427, 15:433-15:436, 15:439, 15:445, 15:447, 18:33, 37:57, 38:01:01:01-38:02:07, 38:04-38:05, 38:08- 38:15, 38:17-38:25, 38:27, 38:29-38:45, 38:47-38:53, 38:55Q-38:71, 39:01:01:01- 39:01:01:07, 39:01:03:01-39:01:24, 39:03:01:01-39:07, 39:09:01:01-39:09:03, 39:11-39:12, 39:14:01:01-39:15, 39:18- 39:19:02, 39:22, 39:24:01-39:38Q, 39:40:01N-39:48, 39:50-39:51, 39:53, 39:55-39:57, 39:59-39:62, 39:64-39:82, 39:84-39:87N, 39:90-39:95N, 39:97N- 39:98, 39:100, 39:102-39:104, 39:106- 39:109, 39:111-39:125, 39:127-39:130, 39:132-39:134, 39:136
<b>65</b>	385 bp 420 bp 450 bp	1070 bp	*07:54, 07:123 *07:315N *07:111N	*45:06 *08:72N
<b>66</b>	435 bp	1070 bp	*07:36, 07:38, 07:81, 07:180, 07:219	*08:03, 08:52, 08:78, 38:01:01:01- 38:01:12, 38:05-38:07, 38:09-38:14, 38:16, 38:19-38:22, 38:24-38:28, 38:30-38:34N, 38:36-38:42, 38:51-38:61, 38:63, 38:65- 38:71, 40:19 <sup>?</sup> , 40:109 <sup>?</sup> , 40:117, 40:292 <sup>?</sup> , 40:340 <sup>?</sup> , 41:46, 44:18, 48:18, 49:01:01:01- 49:01:12, 49:03-49:14, 49:16-49:50
<b>67<sup>6</sup></b>	230 bp	<b>800 bp</b>	*07:29, 07:72, 07:86, 07:114	*08:01:01:01-08:05, 08:07-08:56:02, 08:58- 08:93, 08:95-08:123, 08:125-08:127, 08:129-08:146, 08:148N-08:150, 08:152- 08:196, 14:11, 14:28, 38:33, 39:04, 39:63, 40:01:01-40:01:33, 40:01:35-40:01:50, 40:01:52-40:01:53, 40:07, 40:14:01 <sup>?</sup> - 40:14:02 <sup>?</sup> , 40:14:03, 40:15 <sup>?</sup> , 40:16, 40:21 <sup>?</sup> - 40:22N <sup>?</sup> , 40:23, 40:25 <sup>?</sup> , 40:30-40:32, 40:33 <sup>?</sup> -40:34 <sup>?</sup> , 40:36 <sup>?</sup> , 40:38 <sup>?</sup> , 40:42-40:43, 40:45 <sup>?</sup> -40:47 <sup>?</sup> , 40:48, 40:49 <sup>?</sup> , 40:51-40:52, 40:53 <sup>?</sup> , 40:54, 40:55 <sup>?</sup> , 40:58 <sup>?</sup> , 40:59-40:60, 40:61 <sup>?</sup> -40:63 <sup>?</sup> , 40:65 <sup>?</sup> , 40:66, 40:67 <sup>?</sup> , 40:69 <sup>?</sup> , 40:72:01-40:73, 40:76 <sup>?</sup> , 40:77, 40:79, 40:80 <sup>?</sup> -40:81 <sup>?</sup> , 40:84 <sup>?</sup> , 40:87:01 <sup>?</sup> - 40:88 <sup>?</sup> , 40:92 <sup>?</sup> , 40:100 <sup>?</sup> -40:102 <sup>?</sup> , 40:106 <sup>?</sup> ,

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				40:108 <sup>?</sup> , 40:110 <sup>?</sup> , 40:112 <sup>?</sup> , 40:113-40:114:01, 40:114:02 <sup>?</sup> , 40:116 <sup>?</sup> , 40:117, 40:118N <sup>?</sup> , 40:121 <sup>?</sup> , 40:123 <sup>?</sup> , 40:124:01, 40:124:02 <sup>?</sup> -40:126 <sup>?</sup> , 40:128 <sup>?</sup> -40:130:01 <sup>?</sup> , 40:130:02, 40:132 <sup>?</sup> , 40:134 <sup>?</sup> -40:137 <sup>?</sup> , 40:138-40:140, 40:141 <sup>?</sup> , 40:146-40:147, 40:150, 40:151 <sup>?</sup> , 40:152-40:153, 40:154 <sup>?</sup> , 40:155:01N-40:155:02N, 40:156 <sup>?</sup> , 40:158 <sup>?</sup> , 40:160:01 <sup>?</sup> -40:160:02 <sup>?</sup> , 40:163 <sup>?</sup> , 40:166 <sup>?</sup> , 40:168 <sup>?</sup> , 40:170-40:172, 40:175 <sup>?</sup> , 40:178 <sup>?</sup> -40:179 <sup>?</sup> , 40:182 <sup>?</sup> , 40:183, 40:185 <sup>?</sup> , 40:186:01, 40:186:02 <sup>?</sup> -40:188 <sup>?</sup> , 40:191 <sup>?</sup> -40:194 <sup>?</sup> , 40:196 <sup>?</sup> -40:199 <sup>?</sup> , 40:204 <sup>?</sup> , 40:207 <sup>?</sup> -40:208 <sup>?</sup> , 40:212 <sup>?</sup> -40:213 <sup>?</sup> , 40:215 <sup>?</sup> -40:219 <sup>?</sup> , 40:221 <sup>?</sup> -40:223 <sup>?</sup> , 40:227 <sup>?</sup> -40:228 <sup>?</sup> , 40:231 <sup>?</sup> , 40:233 <sup>?</sup> , 40:235 <sup>?</sup> -40:236 <sup>?</sup> , 40:237, 40:238 <sup>?</sup> -40:242 <sup>?</sup> , 40:245, 40:247 <sup>?</sup> , 40:249-40:253, 40:257 <sup>?</sup> , 40:258-40:265N, 40:272-40:273, 40:277-40:278, 40:279 <sup>?</sup> -40:282 <sup>?</sup> , 40:285-40:286N, 40:288 <sup>?</sup> , 40:298:01 <sup>?</sup> -40:300 <sup>?</sup> , 40:301, 40:308 <sup>?</sup> , 40:310 <sup>?</sup> , 40:312 <sup>?</sup> , 40:315 <sup>?</sup> , 40:316, 40:319 <sup>?</sup> , 40:321, 40:323, 40:324 <sup>?</sup> -40:329 <sup>?</sup> , 40:332, 40:333 <sup>?</sup> , 40:336 <sup>?</sup> , 40:338N <sup>?</sup> -40:339 <sup>?</sup> , 40:344 <sup>?</sup> , 40:346, 40:352 <sup>?</sup> , 40:355, 40:357 <sup>?</sup> -40:358 <sup>?</sup> , 40:360 <sup>?</sup> , 40:365 <sup>?</sup> , 40:367-40:368, 40:370, 41:01:01:01-41:55, 44:15:01:02, 44:18, 45:01:01-45:23, 48:22, 49:01:01:01-49:14, 49:16-49:23, 49:25-49:30, 49:32-49:50, 50:01:01:01-50:01:01:02, 50:01:02 <sup>?</sup> , 50:01:03-50:02, 50:04-50:20, 50:31-50:42, 50:44-50:55
<b>68</b>	335 bp 365 bp 415 bp	1070 bp	*07:148 *07:101 *07:13, 07:15, 07:160	*40:193 <sup>?</sup> *08:193 *08:16, 08:123, 08:145, 42:18, 67:02
<b>69<sup>5,7</sup></b>	130 bp 190 bp 245 bp 465 bp	1070 bp	*07:136:01-07:136:02 *07:106 *07:108 *07:102	*40:320  *08:18, 73:01-73:02
<b>70<sup>4</sup></b>	125 bp 205 bp	<b>800 bp</b>	*07:104 *07:114	
<b>71<sup>10</sup></b>	245 bp 280 bp 390 bp	1070 bp	*07:108 *07:107 *07:181N	
<b>72</b>	165 bp  235 bp	1070 bp	*07:13, 07:110  *07:315N	*37:52, 38:11, 48:36, 54:02, 67:02, 81:06, <b>A*26:142, C*03:137, C*03:182,</b> <b>C*07:102<sup>w</sup>, C*07:351, C*12:82, C*16:116</b>
<b>73<sup>4,5</sup></b>	85 bp 240 bp	1070 bp	*07:119, 07:169 *07:49N	*48:34
<b>74</b>	345 bp 425 bp	1070 bp	*07:120 *07:156, 07:282	*40:150, 48:45 *40:278
<b>75<sup>4</sup></b>	105 bp 250 bp	1070 bp	*07:126, 07:175 *07:121	*15:126
<b>76<sup>7</sup></b>	130 bp	1070 bp	*07:136:01-07:136:02	*40:320

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	170 bp		*07:128	
	285 bp		*07:122	
<b>77</b>	335 bp	<b>800 bp</b>	*07:148	*40:193 <sup>?</sup>
	405 bp		*07:116	
<b>78<sup>4</sup></b>	110 bp	1070 bp	*07:125	
	160 bp		*07:231N	
	380 bp		*07:129	
	415 bp		*07:282	*40:278
<b>79<sup>4</sup></b>	65 bp	1070 bp	*07:130	
	95 bp		*07:119	
<b>80</b>	405 bp	1070 bp	*07:161N	
<b>81</b>	140 bp	1070 bp	*07:147, 07:151:01- 07:151:02, 07:202, 07:279	*15:116, 15:124, 18:88, 40:31, 40:33, 40:52, 40:59, 40:352, 46:06, 46:43, 48:23, 48:46, 57:59, 58:05, <b>C*07:123, C*07:173, C*07:294, C*07:626</b>
<b>82</b>	275 bp	1070 bp	*07:77, 07:163, 07:193, 07:248, 07:276:01-07:276:02	*40:60, 40:245, <b>C*07:38:01-07:38:02</b>
<b>83</b>	175 bp	1070 bp	*07:174, 07:202, 07:222, 07:279	*27:24, 40:31, 40:45, 40:80, 48:01:01:01- 48:01:06, 48:04:01-48:04:02, 48:06-48:07, 48:09, 48:11, 48:15-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:39, 48:41-48:46, 81:01:01-81:08
<b>84</b>	365 bp	1070 bp	*07:12, 07:14, 07:18:01- 07:18:02, 07:137, 07:162, 07:235, 07:248	*35:76, 42:13, 44:90, 56:09, 56:11-56:12, 83:01
<b>85<sup>4</sup></b>	110 bp	<b>800 bp</b>	*07:208	
	160 bp		*07:238, 07:285N	
<b>86</b>	380 bp	1070 bp	*07:219	
<b>87</b>	210 bp	1070 bp	*07:251N	
	260 bp		*07:218, 07:220	*08:118, 14:05, 14:13, 14:53, 18:14, 40:174, 51:64
<b>88</b>	325 bp	1070 bp	*07:271	*13:97, 18:37:01-18:37:02, 18:125, 27:01- 27:21, 27:23-27:51, 27:53-27:66N, 27:68- 27:175, 35:25-35:26, 35:49, 35:198, 35:254, 35:361, 37:28, 40:46 <sup>?</sup> , 40:93 <sup>?</sup> , 44:40, 44:44, 44:130, 44:156, 44:210:01- 44:210:02, 52:16, 58:44, 81:01:01- 81:01:02, 81:03 <sup>?</sup> -81:04N <sup>?</sup> , 81:05, 81:06 <sup>?</sup> - 81:08 <sup>?</sup> , 83:01
<b>89<sup>12</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-B\*07 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 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

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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 mixes 21, 24, 29, 33, 54, 56, 58, 69 and 73 have a tendency giving rise to primer oligomer formation.

<sup>6</sup>Primer mixes 9, 11, 39, 64 and 67 may give rise to a lower yield of HLA-specific PCR product than the other B\*07 primer mixes.

<sup>7</sup>Primer mixes 14, 28, 35, 38, 40, 44, 52, 53, 56, 69 and 76 may have tendencies of unspecific amplifications.

<sup>8</sup>Primer mix 25 may give rise to unspecific amplification in B\*73 alleles.

<sup>9</sup>Primer mix 32 may give rise to a faint band in many B\*14, B\*37, C\*04, C\*05, C\*08 and C\*18 alleles.

<sup>10</sup>Primer mix 71 may give rise to an unspecific amplification product of approx. 900 bp in some HLA-B alleles. This band should be disregarded in the interpretation of HLA-B\*07 typings.

<sup>11</sup>In primer mix 39 the positive control band may be weaker than for other HLA-B\*07 primer mixes.

<sup>12</sup>Primer mix 89 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 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’, might be weakly amplified.

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

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**PRIMER SPECIFICATION**

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	395	285	235	105	220	215	100	160	355	285	130	225
PCR product							215	235		420	210	
Length of int.	<b>800</b>	1070	1070	<b>800</b>	1070	1070	1070	1070	1070	<b>800</b>	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	44	363	412	540	103	103	97	412	693	44	103	419
	5'-ggC <sup>3'</sup>	5'-AgC <sup>3'</sup>	5'-ATg <sup>3'</sup>	5'-Cgg <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-TCg <sup>3'</sup>	5'-ATA <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-gTC <sup>3'</sup>
			412		103	103	540	636		363	103	
			5'-ATg <sup>3'</sup>		5'-CCT <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-CAC <sup>3'</sup>		5'-Agg <sup>3'</sup>	5'-CCT <sup>3'</sup>	
							545			363		
							5'-AgT <sup>3'</sup>			5'-Agg <sup>3'</sup>		
3'-primer(s) <sup>3</sup>	272	605	605	605	282	277	272	605	916	287	191	605
	5'-TgT <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-gCC <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-TgT <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-gAT <sup>3'</sup>	5'-TCC <sup>3'</sup>	5'-CgA <sup>3'</sup>	5'-gCT <sup>3'</sup>
							605	754		302	268	
							5'-gCT <sup>3'</sup>	5'-AgA <sup>3'</sup>		5'-ggC <sup>3'</sup>	5'-gAg <sup>3'</sup>	
										605	272	
										5'-gCT <sup>3'</sup>	5'-TgC <sup>3'</sup>	
											272	
											5'-TgA <sup>3'</sup>	
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.	85	215	385	205	345	265	205	160	100	220	85	125
PCR product	290		420	230	425		250	205	165		270	
							295	275				
Length of int.	1070	<b>800</b>	1070	1070	1070	1070	<b>800</b>	1070	1070	1070	1070	<b>800</b>
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	355	363	44	103	44	379	363	25	481	142	375	103
	5'-TCA <sup>3'</sup>	5'-AgC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-AgC <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-CgA <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-TgA <sup>3'</sup>	5'-CCT <sup>3'</sup>
	560	363		103			409	363	545		560	103
	5'-CAC <sup>3'</sup>	5'-AgC <sup>3'</sup>		5'-CCT <sup>3'</sup>			5'-ggC <sup>3'</sup>	5'-AgC <sup>3'</sup>	5'-AgT <sup>3'</sup>		5'-CCT <sup>3'</sup>	5'-CCT <sup>3'</sup>
								636				527
								5'-CAC <sup>3'</sup>				5'-TgT <sup>3'</sup>
3'-primer(s) <sup>3</sup>	605	539	259	268	218	605	572	131	605	322	605	191
	5'-gCT <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-gAg <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-CgA <sup>3'</sup>
			287	292	301		616	527				605
			5'-TCC <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-gTC <sup>3'</sup>		5'-AgA <sup>3'</sup>	5'-CCg <sup>3'</sup>				5'-gCT <sup>3'</sup>
			302	292	302			754				
			5'-ggT <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-ggT <sup>3'</sup>			5'-AgA <sup>3'</sup>				
				292								
				5'-gTA <sup>3'</sup>								
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

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Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	305	95	165	110	85	190	215	190	90	155	105	175
PCR product	425	205	215		200		280		350		215	250
		235										
		290										
Length of int.	1070	<b>800</b>	<b>800</b>	1070	<b>800</b>	<b>800</b>	<b>800</b>	1070	1070	1070	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	44	363	97	215	560	412	363	412	261	483	97	363
	5'-ggC 3'	5'-AgC 3'	5'-TCg 3'	5'-gCC 3'	5'-CAC 3'	5'-ATA 3'	5'-AgC 3'	5'-ATA 3'	5'-AAC 3'	5'-gAA 3'	5'-TCC 3'	5'-AgC 3'
			148		852				756	503	207	
			5'-TgC 3'		5'-CAg 3'				5'-ACT 3'	5'-CCg 3'	5'-gAC 3'	
3'-primer(s) <sup>3</sup>	181	418	272	282	605	559	538	559	311	605	272	490
	5'-gTT 3'	5'-gTC 3'	5'-TgT 3'	5'-gCC 3'	5'-gCT 3'	5'-CTC 3'	5'-CCA 3'	5'-CgT 3'	5'-Cgg 3'	5'-gCT 3'	5'-TgT 3'	5'-A.C 3'
	301	527			916		603		970			502
	5'-gTC 3'	5'-CCg 3'			5'-gAC 3'		5'-gTC 3'		5'-TCT 3'			5'-CTA 3'
		559										570
		5'-CAg 3'										5'-CCg 3'
		613										
		5'-gCT 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.	210	190	425	265	400	195	185	150	105	425	215	200
PCR product		215		395	425	225	270					280
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	<b>800</b>	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	141	363	272	44	625	89	375	165	206	44	363	113
	5'-ATT 3'	5'-AgC 3'	5'-CTA 3'	5'-ggC 3'	5'-CCg 3'	5'-gAC 3'	5'-TgA 3'	5'-ACC 3'	5'-AgA 3'	5'-ggC 3'	5'-AgC 3'	5'-CCA 3'
					650	118	463					368
					5'-CCT 3'	5'-C.g 3'	5'-TgA 3'					5'-gTC 3'
3'-primer(s) <sup>3</sup>	311	506	412	142	916	272	605	272	272	299	538	272
	5'-ggT 3'	5'-Tgg 3'	5'-gTT 3'	5'-TgC 3'	5'-gAC 3'	5'-TgT 3'	5'-gCT 3'	5'-TgC 3'	5'-Tgg 3'	5'-TCA 3'	5'-gTC 3'	5'-TgT 3'
		516		272								605
		5'-gCg 3'		5'-TgA 3'								5'-gCT 3'
		539										
		5'-TCT 3'										
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

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Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	200	75	335	290	235	160	260	230	150	245	100	145
PCR product		105	470			185			215	440	190	
		165										
Length of int.	1070	1070	1070	800	800	1070	1070	1070	1070	1070	800	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	341	363	44	355	409	363	382	363	98	44	363	167
	5'-ggg 3'	5'-AgC 3'	5'-ggC 3'	5'-CCT 3'	5'-ggT 3'	5'-AgC 3'	5'-TgA 3'	5'-AgC 3'	5'-CTg 3'	5'-ggC 3'	5'-AgC 3'	5'-gCT 3'
							382		161			
							5'-TgC 3'		5'-Cgg 3'			
							386					
							5'-gCA 3'					
	2 <sup>nd</sup> I	398	200	605	605	484	605	544	272	121	419	272
3'-primer(s) <sup>3</sup>	5'-TCg 3'	5'-ggC 3'	5'-..g 3'	5'-gCT 3'	5'-gCT 3'	5'-CgA 3'	5'-gCT 3'	5'-ggT 3'	5'-TgT 3'	5'-gCC 3'	5'-CgA 3'	5'-TgT 3'
		425	221			502		559		317	420	
		5'-CgC 3'	5'-ACC 3'			5'-CTA 3'		5'-CAg 3'		5'-ggC 3'	5'-gCT 3'	
		488	343			513					506	
		5'-CCA 3'	5'-T 3'			5'-TCA 3'					5'-Tgg 3'	
											514	
											5'-CTT 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.	205	415	65	170	385	435	230	335	130	125	245	165	
PCR product	325		230		420			365	190	205	280	235	
	420				450			415	245		390		
									465				
Length of int.	1070	800	1070	1070	1070	1070	800	1070	1070	800	1070	1070	
pos. control <sup>1</sup>													
5'-primer(s) <sup>2</sup>	44	44	256	142	44	44	44	44	44	106	44	103	
	5'-ggC 3'	5'-ggC 3'	5'-ACT 3'	5'-TCT 3'	5'-ggC 3'	5'-ggC 3'	5'-ggC 3'	5'-ggC 3'	5'-ggC 3'	5'-ggC 3'	5'-CCA 3'	5'-ggC 3'	5'-CCT 3'
			363						363	188	363	103	
			5'-AgC 3'						5'-AgC 3'	5'-Cgg 3'	5'-AgC 3'	5'-CCT 3'	
3'-primer(s) <sup>3</sup>	82	292	282	272	259	309	106	212	119	272	119	226	
	5'-ggC 3'	5'-gTA 3'	5'-gCC 3'	5'-TgC 3'	5'-CTC 3'	5'-ATC 3'	5'-CAT 3'	5'-gCA 3'	5'-ggT 3'	5'-TgT 3'	5'-ggT 3'	5'-CAC 3'	
	200	292	553		295			241	341		265	295	
	5'-..g 3'	5'-gTA 3'	5'-CTA 3'		5'-TCA 3'			5'-CgA 3'	5'-CgT 3'		5'-CTA 3'	5'-TCA 3'	
	293	292			327			289	453		603		
	5'-ggA 3'	5'-gTA 3'			5'-TTT 3'			5'-AgC 3'	5'-TCT 3'		5'-TTC 3'		
									453				
									5'-TCC 3'				
									511				
									5'-CCg 3'				
Well No.	61	62	63	64	65	66	67	68	69	70	71	72	

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Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	85	345	105	130	335	110	65	405	140	275	175	365
PCR product	240	425	250	170	405	160	95					
				285		380						
						415						
Length of int.	1070	1070	1070	1070	<b>800</b>	1070	1070	1070	1070	1070	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	244	625	363	363	44	206	244	693	412	368	363	272
	5'-CgC 3'	5'-CCg 3'	5'-AgC 3'	5'-AgC 3'	5'-ggC 3'	5'-AgA 3'	5'-CgC 3'	5'-ggT 3'	5'-ATg 3'	5'-gTC 3'	5'-AgC 3'	5'-CTA 3'
	693	637		880		637	693			382		
	5'-ggT 3'	5'-ACA 3'		5'-CCT 3'		5'-ACA 3'	5'-ggT 3'			5'-TgC 3'		
		704				671				382		
		5'-TgT 3'				5'-Cag 3'				5'-TgA 3'		
3'-primer(s) <sup>3</sup>	299	916	425	453	212	277	299	962	512	605	499	353
	5'-TCT 3'	5'-gAC 3'	5'-CgC 3'	5'-TCT 3'	5'-gCA 3'	5'-ggT 3'	5'-TCT 3'	5'-CAA 3'	5'-CCA 3'	5'-gCT 3'	5'-ggA 3'	5'-TgA 3'
	728		427	453	278	324	719					353
	5'-CCT 3'		5'-gTT 3'	5'-TCC 3'	5'-ggA 3'	5'-TAC 3'	5'-AgA 3'					5'-TgA 3'
	893		571	607		916						
	5'-CCT 3'		5'-CCg 3'	5'-CAC 3'		5'-gAC 3'						
				916								
				5'-gAC 3'								
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86	87	88
Length of spec.	110	380	210	325
PCR product	160		260	
Length of int.	<b>800</b>	1070	1070	1070
pos. control <sup>1</sup>				
5'-primer(s) <sup>2</sup>	363	44	363	49
	5'-AgC 3'	5'-ggC 3'	5'-AgC 3'	5'-CAg 3'
3'-primer(s) <sup>3</sup>	430	256	533	204
	5'-gCT 3'	5'-CCC 3'	5'-CT 3'	5'-TCT 3'
	484		583	
	5'-CgA 3'		5'-gTg 3'	
	490			
	5'-A.C 3'			
Well No.	85	86	87	88

<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.

<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.

101.512-24/03 – including *Taq* pol., IFU-01  
101.512-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **9G7**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-B*07 SSP subtyping kit<sup>2</sup></b>																				
				<b>Well</b>																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201436401	201436402	201898103	201436404	201436405	201436406	201436407	201436408	201782309	201436410	201436411	201436412	201436413	201436414	201436415	201898116
<b>IHWC cell line<sup>1</sup></b>		<b>B*</b>																		
1	9001	SA	*07:02	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01 *73:01	-	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-
3	9011	E4181324	*52:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10 *53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
6	9353	SM	*39:01 *51:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
8	9025	DEU	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
10	9107	LKT3	*54:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9025	JESTHOM	*27:05	-	-	-	-	+	-	-	-	-	-	+	-	-	-	-	-	-
14	9071	OLGA	*15:01 *15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	+
17	9282	CTM3953540	*08:01 *55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01 *56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
20	9059	SLE005	*40:01	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-
21	9064	AMALA	*15:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02 *56:02	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	+
24	9035	JBUSH	*38:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
25	9049	IBW9	*14:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05 *51:01	+	+	-	+	+	-	-	+	+	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02 *44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
32	9297	HAG	*41:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-
34	9104	DHIF	*38:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
35	9302	SSTO	*44:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01 *35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01 *27:05	-	-	-	-	+	-	-	-	-	-	+	-	-	-	-	-	-
40	9134	WHONP199	*13:02 *46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
45	9239	SHJO	*42:01 *50:01	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01 *44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.512-24/03 – including *Taq* pol., IFU-01  
101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **9G7**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																						
<b>HLA-B*07 SSP subtyping kit<sup>2</sup></b>																						
				<b>Well</b>																		
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
				Prod. No.:	201436417	201436418	201436419	201436420	201436421	201782322	201782323	201561624	201436425	201436426	201436427	201436428	201898129	201436430	201436431	201436432		
	<b>IHWC cell line<sup>1</sup></b>		<b>B*</b>																			
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*52:01	*73:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL		*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU		*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
10	9107 LKT3		*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
11	9051 PITOUT		*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9025 JESTHOM		*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*40:01		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-
16	9037 SWEIG007		*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-
17	9282 CTM3953540		*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
18	9257 32367		*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*40:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-
21	9064 AMALA		*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-
24	9035 JBUSH		*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
25	9049 IBW9		*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
28	9320 BEL5GB		*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU		*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019 DUCAF		*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
33	9098 MT14B		*40:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-
34	9104 DHIF		*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
35	9302 SSTO		*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL		*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
40	9134 WHONP199		*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
41	9055 H0301		*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM		*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
45	9239 SHJO		*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND		*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.512-24/03 – including *Taq* pol., IFU-01  
101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **9G7**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-B*07 SSP subtyping kit<sup>2</sup></b>																			
				<b>Well</b>															
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
				Prod. No.:															
				201436433	201436434	201561635	201782336	201436437	201436438	201898139	201436440	201436441	201436442	201782343	201436444	201436445	201436446	201436447	201436448
<b>IHWC cell line<sup>1</sup></b>		<b>B*</b>																	
1	9001	SA	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01 *73:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
3	9011	E4181324	*52:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10 *53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01 *51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9025	JESTHOM	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01 *15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01 *55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
18	9257	32367	*14:01 *56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02 *56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05 *51:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02 *44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
31	9019	DUCAF	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
33	9098	MT14B	*40:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01 *35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01 *27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
40	9134	WHONP199	*13:02 *46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01 *50:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
46	9013	SCHU	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01 *44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.512-24/03 – including *Taq* pol., IFU-01  
101.512-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **9G7**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*07 SSP subtyping kit <sup>2</sup>																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201436449	201436450	201898151	201436452	201561653	201561654	201782355	201436456	201436457	201561658	201436459	201436460	201898161	201436462	201436463	201782364
	IHC cell line <sup>1</sup>		B*																	
1	9001	SA	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01 *73:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*52:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10 *53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
5	9009	KAS011	*37:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
6	9353	SM	*39:01 *51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
7	9020	QBL	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
10	9107	LKT3	*54:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9025	JESTHOM	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01 *15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
16	9037	SWEIG007	*40:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01 *55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01 *56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
19	9038	BM16	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
21	9064	AMALA	*15:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02 *56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
25	9049	IBW9	*14:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
26	9285	WT49	*58:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05 *51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02 *44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
33	9098	MT14B	*40:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
34	9104	DHIF	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
35	9302	SSTO	*44:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01 *35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01 *27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02 *46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
42	9066	TAB089	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
45	9239	SHJO	*42:01 *50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
46	9013	SCHU	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01 *44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.512-24/03 – including *Taq* pol., IFU-01  
101.512-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **9G7**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-B*07 SSP subtyping kit<sup>2</sup></b>																				
				<b>Well</b>																
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
				Prod. No.:	201898165	201436466	201436467	201436468	201561669	201436470	201436471	201898172	201436473	201898174	201436475	201561676	201436477	201782378	201436479	201436480
<b>IHWC cell line<sup>1</sup></b>		<b>B*</b>																		
1	9001	SA	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707	*52:01	*73:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR	*38:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9025	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075	DKB	*40:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282	CTM3953540	*08:01	*55:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005	*40:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035	JBUSH	*38:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297	HAG	*41:02		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098	MT14B	*40:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104	DHIF	*38:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315	CML	*08:01	*27:05	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057	TEM	*38:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239	SHJO	*42:01	*50:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.512-24/03 – including *Taq* pol., IFU-01  
101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **9G7**

Lot-specific information

CELL LINE VALIDATION SHEET												
HLA-B*07 SSP subtyping kit <sup>2</sup>												
				Well								
				81	82	83	84	85	86	87	88	
				Prod. No.:	201898181	201782382	201782383	201782384	201782385	201898186	201782387	201782388
IHCW cell line <sup>1</sup>		B*										
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-
2	9280 LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*52:01		-	-	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*37:01		-	-	-	-	-	-	-	-	-
6	9353 SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-
7	9020 QBL	*18:01		-	-	-	-	-	-	-	-	-
8	9025 DEU	*35:01		-	-	-	-	-	-	-	-	-
9	9026 YAR	*38:01		-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01		-	-	-	-	-	-	-	-	-
11	9051 PTOU	*44:03		-	-	-	-	-	-	-	-	-
12	9052 DBB	*57:01		-	-	-	-	-	-	-	-	-
13	9025 JESTHOM	*27:05		-	-	-	-	-	-	-	-	+
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01		-	-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03		-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01		-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01		-	-	-	-	-	-	-	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01		-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	-	+
40	9134 WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-
41	9055 H0301	*14:02		-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01		-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01		-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-

**101.512-24/03 – including *Taq* pol., IFU-01**  
**101.512-24u/03u – without *Taq* pol., IFU-02**

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**Lot No.: 9G7**

**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 7, 12, 13, 15, 17, 18, 20 to 23, 25, 27 to 29, 34, 36, 38, 40 to 43, 48 to 55, 57 to 61, 63, 65, 68, 70 to 82 and 84 to 87 were available.

The specificities of the primers in primer solutions 7, 12, 13, 15, 17, 18, 20, 21, 23, 25, 27, 29, 36, 38, 40, 43, 48, 50 to 53, 57, 59, 60, 63, 68, 70, 72, 73, 75 to 79, 81, 82, 84, 86 and 87 were tested by separately adding additional 5'-primers, respectively additional 3'-primers. In primer solutions 22, 54, 58, 61, 65, 71, 80 and 85 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 28, 34, 41, 42, 49, 55 and 74 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 2, 3, 21, 23, 27, 29, 35, 43, 48, 57, 63, 70, 73, 76, 78, 79 and 82 one or two 5'-primers were not possible to test, and in primer solutions 8, 10, 11, 15 to 17, 19, 20, 24 to 26, 33, 36, 38, 40, 50, 51, 56, 59, 63, 68, 69, 72, 73, 75 to 79 and 87 one, two or three 3'-primers were not possible to test. Additional primers in primer solutions 8, 10, 11, 19, 24, 26, 31, 33 and 69 were tested by separately adding one additional 5'-primer and/or one or two additional 3'-primers.

101.512-24/03 – including *Taq* pol., IFU-01  
101.512-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **9G7**

Lot-specific information

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