

101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **66V**

Lot-specific information

## **Olerup SSP® HLA-B\*15**

Product number:	101.516-24/04 – including <i>Taq</i> pol. 101.516-24u/04u – without <i>Taq</i> pol.
Lot number:	66V
Expiry date:	2016-November-01
Number of tests:	24 tests – Product No. 101.516-24/24u 4 tests – Product No. 101.516-04/04u
Number of wells per test:	95+1
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C

### **This Product Description is only valid for Lot No. 66V.**

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\*15 LOT (93R)**

The HLA-B\*15 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

A well containing Negative Control primer pairs has been added.

The format of the Product Insert and Worksheet have been changed.

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

The HLA-B\*15 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B\*15 lot was made (**Lot No. 93R**).

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As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

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

Well	5'-primer	3'-primer	rationale
4	-	Added	3'-primer added for the B*15:285 allele.
39	-	Added	3'-primer added for the B*15:285 allele.
51	-	Added	3'-primer added for the B*15:278 allele.
52	Added	Added	Primer pair added from well 77.
55	-	Added	3'-primer added for the B*15:284 allele.
60	Added	-	5'-primer added for the B*15:271 allele.
64	Added	Added	Primer pair added for the B*15:302N allele.
77	Added, moved	Added, moved	Primer pair added from well 96, 5'-primer added for improved HLA-specific amplification, primer pair moved to well 52.
79	Added	Added	Primer added for the B*15:270 allele.
82	-	Added	3'-primer added for the B*15:277 allele.
86	-	Added	3'-primer added for the B*15:272N allele.
92	-	Added	3'-primer added for the B*15:266 allele.
93	-	Added	3'-primer added for the B*15:304N allele.
94	-	Added	3'-primer added for the B*15:272N allele.
96	Moved	Moved	Primer pair moved to well 77, Negative Control.

Change in revision R01 compared to R00:

1. The B\*15:228 allele may not be amplified in primer mixes 41 and 44 to 48. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. Primer mix 4 contains the shorter, 800 bp, internal positive control band. This has been corrected in the Specificity Table and the Primer Specification Table.

Changes in revision R03 compared to R02:

1. Primer mixes 66 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*15 resolution primer mixes. A foot note has been added in the Specificity Table.

Changes in revision R04 compared to R03:

1. Primer mix 83 does not amplify the B\*15:159 and 15:260 and the B\*07:23, 18:95, 40:79, 40:190, 41:14 and 46:52 alleles. Thus, this lot of the B\*15 kit cannot distinguish the B\*15:159 and the B\*15:01:01:01, 15:01:03, 15:01:06-15:01:13, 15:01:15-15:01:16, 15:01:18-15:01:30, 15:01:32-15:01:34, 15:217, 15:231-15:232, 15:244, 15:251, 15:257, 15:261, 15:264, 15:267, 15:276, 15:279-15:280, 15:286 and 15:296 alleles or the B\*15:260 and the B\*15:82 and 15:256 alleles. This has been corrected in the Specificity and Interpretation Tables.

Changes in revision R05 compared to R04:

1. Primer mix 77 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*15 resolution primer mixes. A foot note has been added in the Specificity Table.

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Well **96** 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>
							<b>36</b>
							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>
							<b>48</b>
							5'-gCA <sup>3'</sup>
							<b>48</b>
							5'-gCC <sup>3'</sup>
							<b>52</b>
							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\*15 SSP subtyping**

**CONTENT**

The primer set contains 5'- and 3'-primers for identifying the B\*15:01 to B\*15:304N alleles.

**PLATE LAYOUT**

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

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	NC

The 96 well cut PCR plate is marked with 'HLA-B\*15' in silver/gray ink.

Well No. 1 is marked with the Lot No. '66V'.

Wells 1 to 95 – HLA-B\*15 high resolution primers.

Well 96 – 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\*15 alleles will be amplified by primer mixes 1 to 3, 6 to 9, 11, 15, 16, 18, 20, 22 to 24, 27, 29 to 35, 37, 38, 41 to 51, 55, 56, 59 to 62, 66, 67, 70, 72 to 74, 78, 82 to 84, 87, 90, 92 and 95. In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 3, 7, 15, 18, 21, 22, 26, 27, 34 to 37, 39, 40, 50, 53, 59, 64, 68, 73, 78, 82, 84 and 85.

For further details see Specificity Table.

**UNIQUELY IDENTIFIED ALLELES**

All the HLA-B\*15 alleles, i.e. **B\*15:01 to B\*15:304N**, recognized by the HLA Nomenclature Committee in January 2014<sup>1</sup> will be amplified by the primers in the HLA-B\*15 subtyping kit<sup>2,3</sup>.

The HLA-B\*15 kit enables separation of the confirmed HLA- B\*15 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has

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been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA- B\*15 alleles is listed below.

The HLA- B\*15 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The following HLA-B\*15 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
B*15:92, 15:104	52	B*15:166, 15:193	86
B*15:120, 15:258N	93	B*15:169,15:225	87
B*15:142, 15:147	78	B*15:208, 15:230	70

The HLA-B\*15 subtyping kit cannot distinguish these silent mutations: the B\*15:01:01:01, 15:01:03, 15:01:06-15:01:13, 15:01:15-15:01:16, 15:01:18-15:01:30 and 15:01:32-15:01:34 alleles, the B\*15:02:01-15:02:08 alleles, the B\*15:03:01-15:03:02 and 15:03:04 alleles, the B\*15:05:01-15:05:02 alleles, the B\*15:07:01-15:07:03 alleles, the B\*15:11:01-15:11:02 and 15:11:05-15:11:06 alleles, the B\*15:13:01-15:13:02 alleles, the B\*15:16:01-15:16:03 alleles, the B\*15:17:01:01-15:17:02 alleles, the B\*15:18:01 and 15:18:04-15:18:06 alleles, the B\*15:24:01-15:24:02 alleles, the B\*15:25:01-15:25:03 alleles, the B\*15:27:01-15:27:03 alleles, the B\*15:32:01-15:32:02, the B\*15:38:01-15:38:02 alleles, the B\*15:39:01-15:39:02 alleles, the B\*15:47:01-15:47:02 alleles, the B\*15:64:01-15:64:02 alleles or the B\*15:78:01-15:78:03 alleles.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2014-January-14, release 3.15.0, [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>This lot of the B\*15 kit cannot distinguish the B\*15:159 and the B\*15:01:01:01, 15:01:03, 15:01:06-15:01:13, 15:01:15-15:01:16, 15:01:18-15:01:30, 15:01:32-15:01:34, 15:217, 15:231-15:232, 15:244, 15:251, 15:257, 15:261, 15:264, 15:267, 15:276, 15:279-15:280, 15:286 and 15:296 alleles or the B\*15:260 and the B\*15:82 and 15:256 alleles.

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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*15:01:01:01	Confirmed	B*15:07:01	Confirmed	B*15:34	Confirmed	B*15:80	Unconfirmed
B*15:01:01:02N	Confirmed	B*15:07:02	Unconfirmed	B*15:35	Confirmed	B*15:81	Unconfirmed
B*15:01:02	Confirmed	B*15:07:03	Unconfirmed	B*15:36	Unconfirmed	B*15:82	Unconfirmed
B*15:01:03	Unconfirmed	B*15:08	Confirmed	B*15:37	Confirmed	B*15:83	Unconfirmed
B*15:01:04	Unconfirmed	B*15:09	Confirmed	B*15:38:01	Confirmed	B*15:84	Unconfirmed
B*15:01:06	Confirmed	B*15:10:01	Confirmed	B*15:38:02	Confirmed	B*15:85	Unconfirmed
B*15:01:07	Unconfirmed	B*15:10:02	Confirmed	B*15:39:01	Confirmed	B*15:86	Confirmed
B*15:01:08	Unconfirmed	B*15:11:01	Confirmed	B*15:39:02	Unconfirmed	B*15:87	Unconfirmed
B*15:01:09	Confirmed	B*15:11:02	Confirmed	B*15:40	Confirmed	B*15:88	Unconfirmed
B*15:01:10	Confirmed	B*15:11:03	Unconfirmed	B*15:42	Confirmed	B*15:89	Confirmed
B*15:01:11	Confirmed	B*15:11:04	Unconfirmed	B*15:43	Unconfirmed	B*15:90	Unconfirmed
B*15:01:12	Unconfirmed	B*15:11:05	Unconfirmed	B*15:44	Unconfirmed	B*15:91	Unconfirmed
B*15:01:13	Confirmed	B*15:11:06	Unconfirmed	B*15:45	Confirmed	B*15:92	Unconfirmed
B*15:01:14	Confirmed	B*15:12	Confirmed	B*15:46	Confirmed	B*15:93	Unconfirmed
B*15:01:15	Confirmed	B*15:13:01	Confirmed	B*15:47:01	Confirmed	B*15:94N	Unconfirmed
B*15:01:16	Confirmed	B*15:13:02	Unconfirmed	B*15:47:02	Confirmed	B*15:95	Unconfirmed
B*15:01:17	Unconfirmed	B*15:14	Confirmed	B*15:48	Confirmed	B*15:96	Unconfirmed
B*15:01:18	Unconfirmed	B*15:15	Confirmed	B*15:49	Unconfirmed	B*15:97	Unconfirmed
B*15:01:19	Unconfirmed	B*15:16:01	Confirmed	B*15:50	Confirmed	B*15:98	Unconfirmed
B*15:01:20	Unconfirmed	B*15:16:02	Unconfirmed	B*15:51	Unconfirmed	B*15:99	Unconfirmed
B*15:01:21	Unconfirmed	B*15:16:03	Unconfirmed	B*15:52	Confirmed	B*15:101	Unconfirmed
B*15:01:22	Unconfirmed	B*15:17:01:01	Confirmed	B*15:53	Confirmed	B*15:102	Unconfirmed
B*15:01:23	Unconfirmed	B*15:17:01:02	Unconfirmed	B*15:54	Confirmed	B*15:103	Unconfirmed
B*15:01:24	Unconfirmed	B*15:17:02	Confirmed	B*15:55	Confirmed	B*15:104	Unconfirmed
B*15:01:25	Unconfirmed	B*15:18:01	Confirmed	B*15:56	Confirmed	B*15:105	Unconfirmed
B*15:01:26	Unconfirmed	B*15:18:02	Confirmed	B*15:57	Unconfirmed	B*15:106	Confirmed
B*15:01:27	Unconfirmed	B*15:18:03	Confirmed	B*15:58	Confirmed	B*15:107	Unconfirmed
B*15:01:28	Unconfirmed	B*15:18:04	Confirmed	B*15:60	Unconfirmed	B*15:108	Unconfirmed
B*15:01:29	Unconfirmed	B*15:18:05	Unconfirmed	B*15:61	Confirmed	B*15:109	Unconfirmed
B*15:01:30	Unconfirmed	B*15:18:06	Unconfirmed	B*15:62	Confirmed	B*15:110	Unconfirmed
B*15:01:31	Unconfirmed	B*15:19	Unconfirmed	B*15:63	Confirmed	B*15:111N	Unconfirmed
B*15:01:32	Unconfirmed	B*15:20	Confirmed	B*15:64:01	Confirmed	B*15:112	Unconfirmed
B*15:01:33	Unconfirmed	B*15:21	Confirmed	B*15:64:02	Unconfirmed	B*15:113	Confirmed
B*15:01:34	Unconfirmed	B*15:23	Confirmed	B*15:65	Unconfirmed	B*15:114	Unconfirmed
B*15:02:01	Confirmed	B*15:24:01	Confirmed	B*15:66	Unconfirmed	B*15:115	Unconfirmed
B*15:02:02	Unconfirmed	B*15:24:02	Unconfirmed	B*15:67	Confirmed	B*15:116	Unconfirmed
B*15:02:03	Unconfirmed	B*15:25:01	Confirmed	B*15:68	Confirmed	B*15:117	Unconfirmed
B*15:02:04	Confirmed	B*15:25:02	Confirmed	B*15:69	Confirmed	B*15:118	Unconfirmed
B*15:02:05	Unconfirmed	B*15:25:03	Unconfirmed	B*15:70	Confirmed	B*15:119	Unconfirmed
B*15:02:06	Unconfirmed	B*15:26N	Unconfirmed	B*15:71	Confirmed	B*15:120	Unconfirmed
B*15:02:07	Unconfirmed	B*15:27:01	Confirmed	B*15:72	Unconfirmed	B*15:121	Unconfirmed
B*15:02:08	Unconfirmed	B*15:27:02	Unconfirmed	B*15:73	Confirmed	B*15:122	Unconfirmed
B*15:03:01	Confirmed	B*15:27:03	Unconfirmed	B*15:74	Confirmed	B*15:123	Unconfirmed
B*15:03:02	Confirmed	B*15:28	Unconfirmed	B*15:75	Confirmed	B*15:124	Unconfirmed
B*15:03:03	Confirmed	B*15:29	Confirmed	B*15:76	Unconfirmed	B*15:125	Confirmed
B*15:03:04	Confirmed	B*15:30	Confirmed	B*15:77	Unconfirmed	B*15:126	Unconfirmed
B*15:04	Confirmed	B*15:31	Confirmed	B*15:78:01	Confirmed	B*15:127	Unconfirmed
B*15:05:01	Confirmed	B*15:32:01	Confirmed	B*15:78:02	Unconfirmed	B*15:128	Unconfirmed
B*15:05:02	Confirmed	B*15:32:02	Unconfirmed	B*15:78:03	Unconfirmed	B*15:129	Unconfirmed
B*15:06	Confirmed	B*15:33	Confirmed	B*15:79N	Unconfirmed	B*15:131	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*15:132	Confirmed	B*15:182N	Unconfirmed	B*15:232	Unconfirmed	B*15:282	Unconfirmed
B*15:133	Unconfirmed	<b>B*15:183</b>	Confirmed	B*15:233	Unconfirmed	B*15:283	Unconfirmed
B*15:134	Unconfirmed	B*15:184	Unconfirmed	B*15:234	Unconfirmed	B*15:284	Unconfirmed
<b>B*15:135</b>	Confirmed	B*15:185	Unconfirmed	<b>B*15:235</b>	Confirmed	<b>B*15:285</b>	Confirmed
B*15:136	Unconfirmed	B*15:186	Unconfirmed	<b>B*15:236</b>	Confirmed	B*15:286	Unconfirmed
B*15:137	Unconfirmed	B*15:187	Unconfirmed	B*15:237	Unconfirmed	B*15:287	Unconfirmed
B*15:138	Unconfirmed	B*15:188	Unconfirmed	B*15:238	Unconfirmed	B*15:288	Unconfirmed
B*15:139	Unconfirmed	<b>B*15:189</b>	Confirmed	<b>B*15:239</b>	Confirmed	B*15:289	Unconfirmed
B*15:140	Unconfirmed	<b>B*15:190N</b>	Confirmed	B*15:240	Unconfirmed	B*15:290	Unconfirmed
<b>B*15:141</b>	Confirmed	B*15:191	Unconfirmed	<b>B*15:241</b>	Confirmed	B*15:291	Unconfirmed
B*15:142	Unconfirmed	B*15:192	Unconfirmed	B*15:242	Unconfirmed	B*15:292	Unconfirmed
B*15:143	Unconfirmed	B*15:193	Unconfirmed	B*15:243	Unconfirmed	B*15:293	Unconfirmed
B*15:144	Unconfirmed	B*15:194	Unconfirmed	B*15:244	Unconfirmed	B*15:294N	Unconfirmed
B*15:145	Unconfirmed	B*15:195	Unconfirmed	B*15:245Q	Unconfirmed	B*15:295	Unconfirmed
<b>B*15:146</b>	Confirmed	B*15:196	Unconfirmed	B*15:246N	Unconfirmed	B*15:296	Unconfirmed
<b>B*15:147</b>	Confirmed	B*15:197	Unconfirmed	B*15:247	Unconfirmed	B*15:297	Unconfirmed
B*15:148	Unconfirmed	B*15:198	Unconfirmed	B*15:248	Unconfirmed	B*15:298	Unconfirmed
B*15:149N	Unconfirmed	B*15:199	Unconfirmed	B*15:249	Unconfirmed	B*15:299	Unconfirmed
<b>B*15:150</b>	Confirmed	B*15:200	Unconfirmed	B*15:250	Unconfirmed	B*15:300	Unconfirmed
B*15:151	Unconfirmed	B*15:201	Unconfirmed	B*15:251	Unconfirmed	B*15:301	Unconfirmed
B*15:152	Unconfirmed	B*15:202	Unconfirmed	B*15:252	Unconfirmed	B*15:302N	Unconfirmed
<b>B*15:153</b>	Confirmed	B*15:203	Unconfirmed	B*15:253	Unconfirmed	B*15:303	Unconfirmed
<b>B*15:154</b>	Confirmed	<b>B*15:204</b>	Confirmed	B*15:254	Unconfirmed	B*15:304N	Unconfirmed
<b>B*15:155</b>	Confirmed	B*15:205	Unconfirmed	B*15:255	Unconfirmed		
B*15:156	Unconfirmed	B*15:206	Unconfirmed	B*15:256	Unconfirmed		
<b>B*15:157</b>	Confirmed	<b>B*15:207</b>	Confirmed	B*15:257	Unconfirmed		
<b>B*15:158</b>	Confirmed	<b>B*15:208</b>	Confirmed	B*15:258N	Unconfirmed		
<b>B*15:159</b>	Confirmed	B*15:209N	Unconfirmed	B*15:259	Unconfirmed		
<b>B*15:160</b>	Confirmed	B*15:210	Unconfirmed	B*15:260	Unconfirmed		
<b>B*15:161</b>	Confirmed	<b>B*15:211</b>	Confirmed	B*15:261	Unconfirmed		
<b>B*15:162</b>	Confirmed	B*15:212	Unconfirmed	B*15:262N	Unconfirmed		
B*15:163	Unconfirmed	B*15:213	Unconfirmed	<b>B*15:263</b>	Confirmed		
B*15:164	Unconfirmed	B*15:214	Unconfirmed	B*15:264	Unconfirmed		
B*15:165	Unconfirmed	B*15:215	Unconfirmed	B*15:265	Unconfirmed		
B*15:166	Unconfirmed	B*15:216	Unconfirmed	<b>B*15:266</b>	Confirmed		
<b>B*15:167</b>	Confirmed	B*15:217	Unconfirmed	B*15:267	Unconfirmed		
B*15:168	Unconfirmed	B*15:218Q	Unconfirmed	B*15:268	Unconfirmed		
B*15:169	Unconfirmed	B*15:219	Unconfirmed	B*15:269	Unconfirmed		
<b>B*15:170</b>	Confirmed	<b>B*15:220</b>	Confirmed	B*15:270	Unconfirmed		
<b>B*15:171</b>	Confirmed	B*15:221	Unconfirmed	<b>B*15:271</b>	Confirmed		
<b>B*15:172</b>	Confirmed	B*15:222	Unconfirmed	B*15:272N	Unconfirmed		
<b>B*15:173</b>	Confirmed	B*15:223	Unconfirmed	B*15:273	Unconfirmed		
B*15:174	Unconfirmed	B*15:224	Unconfirmed	B*15:274	Unconfirmed		
B*15:175	Unconfirmed	B*15:225	Unconfirmed	B*15:275	Unconfirmed		
<b>B*15:176</b>	Confirmed	B*15:226N	Unconfirmed	B*15:276	Unconfirmed		
B*15:177	Unconfirmed	B*15:227	Unconfirmed	<b>B*15:277</b>	Confirmed		
B*15:178	Unconfirmed	<b>B*15:228</b>	Confirmed	<b>B*15:278</b>	Confirmed		
B*15:179	Unconfirmed	<b>B*15:229</b>	Confirmed	B*15:279	Unconfirmed		
<b>B*15:180</b>	Confirmed	B*15:230	Unconfirmed	B*15:280	Unconfirmed		
<b>B*15:181N</b>	Confirmed	B*15:231	Unconfirmed	B*15:281	Unconfirmed		

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2014-January-17, release 3.15.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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Lot-specific information  
**SPECIFICITY TABLE**

**HLA-B\*15 SSP subtyping**

Specificities and sizes of the PCR products of the 95+1 primer mixes used for HLA-B\*15 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-B*15 alleles <sup>3</sup>	Other amplified Class I alleles <sup>4</sup>
1	395 bp	800 bp	*15:01:01:01-15:01:04, 15:01:06-15:07:03, 15:12-15:15, 15:19-15:20, 15:24:01-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:43, 15:45-15:50, 15:53-15:55, 15:57-15:58, 15:60-15:65, 15:69-15:71, 15:73, 15:75, 15:77-15:79N, 15:81-15:89, 15:91-15:92, 15:94N, 15:96, 15:98, 15:102-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:123, 15:125-15:129, 15:131-15:132, 15:135-15:138, 15:140-15:142, 15:144-15:147, 15:150-15:151, 15:154-15:160, 15:163-15:167, 15:169-15:175, 15:178-15:179:01, 15:181N-15:185, 15:187-15:188, 15:190N, 15:192-15:195, 15:199, 15:201-15:207, 15:210-15:214, 15:217-15:220, 15:223-15:225, 15:227-15:228, 15:231-15:235, 15:237, 15:239-15:242, 15:244-15:251, 15:253, 15:256-15:262N, 15:264-15:267, 15:269-15:272N, 15:274, 15:276-15:283, 15:285-15:289, 15:291, 15:295-15:302N, 15:304N	*40:12
2	290 bp	1070 bp	*15:01:01:01-15:01:03, 15:01:06-15:02:08, 15:03:03, 15:04:01-15:08:01, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:02, 15:19-15:21, 15:24:01-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135-15:150, 15:152, 15:154-15:155, 15:157, 15:159-15:160, 15:162-15:172, 15:174-15:175, 15:177-15:179:01, 15:181N-15:185, 15:187-15:196, 15:199, 15:201-15:209N, 15:211, 15:213-15:219, 15:223-15:225, 15:227-15:228, 15:230-15:234, 15:236-15:237, 15:239-15:241, 15:244-15:251, 15:256-15:262N, 15:264-15:265, 15:267-15:273, 15:276-15:280, 15:283-15:289, 15:291, 15:295-15:304N	*46:01:01-46:57, <b>C*01:73, C*07:02:30, C*08:16:02</b>



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<b>3<sup>5</sup></b>	120 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:17 <sup>w</sup> , 15:01:18-15:01:30, 15:01:32-15:01:34, 15:04:01, 15:07:01-15:08:01, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24:01-15:24:02, 15:26N-15:28, 15:30, 15:32:01-15:32:02, 15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:90, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:201-15:203, 15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 15:239, 15:241, 15:244-15:247, 15:251, 15:256-15:262N, 15:264, 15:267, 15:269-15:270, 15:272N, 15:276-15:280, 15:284-15:286, 15:296, 15:298-15:299, 15:303-15:304N	*07:100, 13:31, 13:41, 18:19, 27:25, 27:115, 35:14:01-35:14:02, 35:43:01-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 35:213, 39:36, 44:146, 45:05, 46:01:01-46:02, 46:04-46:05, 46:07N, 46:09-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:26-46:32, 46:34-46:42, 46:44, 46:46-46:53, 46:55N-46:57, 51:61:01-51:61:02, 52:21, 54:06, 55:21, 56:03, 56:43, <b>A*26:68, A*68:56, C*02:56, C*06:20, C*12:50</b>
<b>4</b>	180 bp 390 bp	<b>800 bp</b>	*15:01:01:02N *15:285	
<b>5<sup>8</sup></b>	385 bp	1070 bp	*15:02:01-15:02:08, 15:08:01-15:11:06, 15:13:01-15:13:02, 15:15, 15:18:01-15:18:06, 15:21, 15:23, 15:29, 15:31, 15:37, 15:44, 15:51-15:52, 15:55, 15:64:01-15:64:02, 15:72, 15:76, 15:80, 15:88-15:90, 15:93, 15:99, 15:108, 15:112, 15:114-15:115, 15:119, 15:121, 15:124, 15:133-15:134, 15:139, 15:143-15:144, 15:148, 15:153, 15:161, 15:170, 15:176, 15:186, 15:189, 15:191, 15:194, 15:197-15:198, 15:200, 15:209N, 15:213-15:215, 15:221, 15:223, 15:226N, 15:229, 15:238, 15:252, 15:263, 15:265, 15:275, 15:283-15:284, 15:290-15:294N, 15:297, 15:301-15:303	
<b>6</b>	525 bp	1070 bp	*15:02:01-15:02:08, 15:13:01-15:13:02, 15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:88-15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 15:250, 15:265, 15:271, 15:283, 15:289, 15:291, 15:297, 15:301-15:302N	*46:33
<b>7</b>	330 bp	1070 bp	*15:03:01-15:03:04, 15:09-15:10:02, 15:18:01-15:18:06, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64:01-15:64:02, 15:69,	*40:12, <b>C*07:46</b>

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Lot-specific information

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			15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197-15:198, 15:200, 15:210, 15:212, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242-15:243, 15:252-15:253, 15:255, 15:259, 15:263, 15:266, 15:274-15:275, 15:281-15:282, 15:290, 15:292-15:294N
<b>8<sup>s</sup></b>	105 bp      1070 bp	*15:04:01, 15:16:01-15:16:03, 15:67, 15:95, 15:137, 15:155, 15:222, 15:254, 15:293	*13:04, 13:46, 13:72, 35:37, 35:235, 39:06:01-39:06:04, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 40:86, 40:159, 41:30, 45:02, 45:09, 46:32, 49:04-49:05, 50:09, 50:33, 51:13:01-51:13:02, 51:37, 51:63, 51:92, 51:97, 52:14, 54:14, 55:13, 55:23, 55:32, 55:58, 56:22, 59:03, 73:01-73:02
<b>9</b>	365 bp      1070 bp	*15:05:01-15:05:02, 15:31, 15:52, 15:55, 15:84 <sup>w</sup> , 15:86, 15:91, 15:107, 15:114, 15:123-15:124, 15:151, 15:155, 15:185, 15:188, 15:222, 15:224, 15:237 <sup>w</sup> , 15:275, 15:283	*46:06, 46:11, 46:13:01-46:13:03, 46:18, 46:21:01-46:21:02, 46:25, 46:33, 46:43
<b>10</b>	300 bp 515 bp      1070 bp	*15:37-15:38:02, 15:185 *15:06, 15:27:01-15:27:03, 15:84, 15:109, 15:112, 15:195	
<b>11<sup>8</sup></b>	140 bp <b>800 bp</b>	*15:07:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:207	*07:68:01-07:68:03, 07:100, 08:71, 14:05, 14:13, 18:14, 27:32, 35:05:01-35:05:03, 35:22, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 35:199, 35:232, 38:19, 39:03, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 39:76, 40:35:01, 40:71, 41:24, 42:10, 42:17, 44:54, 44:106, 44:135, 44:158, 46:12, 48:12, 48:14, 48:29, 51:64, 53:14, 58:18
<b>12<sup>7</sup></b>	400 bp      1070 bp	*15:08:01, 15:29, 15:49, 15:56, 15:191, 15:236	
<b>13</b>	395 bp <b>800 bp</b>	*15:09-15:10:02, 15:18:01-15:18:06, 15:21, 15:23, 15:37, 15:44, 15:51-15:52, 15:66, 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, 15:189, 15:197-15:198, 15:200, 15:221, 15:226N, 15:229, 15:238, 15:243, 15:252, 15:263, 15:275, 15:290, 15:292-15:294N	
	435 bp	*15:79N	

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<b>14</b>	465 bp	1070 bp	*15:09-15:10:02, 15:30, 15:37, 15:45, 15:48, 15:63, 15:83, 15:90, 15:99, 15:150, 15:188, 15:243, 15:248, 15:252, 15:287	
	515 bp		*15:110	
<b>15<sup>5,7</sup></b>	105 bp	1070 bp	*15:01:02, 15:09, 15:243, 15:252, 15:277-15:278	*07:02:11, 07:05:03, 40:01:06, 40:26, 51:06:01, 51:59, 51:64, 51:135, <b>C*02:02:23</b>
<b>16<sup>5</sup></b>	120 bp	1070 bp	*15:116, 15:124	*40:52, 40:59, 46:06, 46:43, 48:23, 57:59
	190 bp		*15:12, 15:19, 15:270, 15:298, 15:304N	
<b>17</b>	435 bp	1070 bp	*15:13:01-15:13:02, 15:16:01-15:17:02, 15:23-15:24:02, 15:67, 15:87, 15:95, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:254, 15:268, 15:273	
<b>18</b>	195 bp	1070 bp	*15:14, 15:91, 15:131, 15:161	*18:56, 35:45, 35:71, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 46:17, 53:22, 58:07, <b>C*14:61</b>
<b>19<sup>8</sup></b>	395 bp	<b>800 bp</b>	*15:16:01-15:17:02, 15:67, 15:74, 15:95, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:254, 15:268, 15:273	
<b>20</b>	360 bp 505 bp	1070 bp	*15:105 *15:16:01-15:16:03, 15:34, 15:62, 15:67, 15:85-15:86, 15:95, 15:137, 15:194, 15:222, 15:254, 15:303	*46:11, 46:18, 46:33, 46:53
<b>21</b>	205 bp 425 bp	1070 bp	*15:16:01-15:16:03, 15:67, 15:95, 15:222, 15:254 *15:43	<b>C*03:158</b>
<b>22</b>	190 bp	<b>800 bp</b>	*15:01:01:01-15:01:04, 15:01:06-15:01:34, 15:03:01-15:05:02, 15:07:01-15:11:06, 15:12 <sup>w</sup> , 15:14-15:16:03, 15:18:01-15:18:06, 15:19 <sup>w</sup> , 15:20, 15:23-15:24:02, 15:26N-15:30, 15:32:01-15:35, 15:37-15:39:02, 15:43, 15:45-15:46, 15:48, 15:51, 15:53-15:54, 15:56-15:58, 15:60-15:68, 15:70-15:76, 15:78:01-15:82, 15:84-15:85, 15:87, 15:90-15:92, 15:94N-15:99, 15:101-15:105, 15:107-15:111N, 15:113, 15:115-15:116, 15:118-15:120, 15:122-15:123, 15:125-15:127, 15:129, 15:131-15:136, 15:140-15:143, 15:145-15:155, 15:157-15:161, 15:163-15:167, 15:169, 15:171-15:176, 15:178-15:185, 15:187, 15:189-15:195, 15:197-15:198, 15:200-15:203, 15:205-15:206, 15:209N-15:210, 15:212, 15:215, 15:217, 15:219-15:223, 15:225-15:229, 15:231-15:232, 15:234-15:237, 15:239, 15:242-15:244, 15:246N-15:249, 15:251, 15:253-15:264, 15:266-15:269, 15:270 <sup>w</sup> , 15:272N, 15:274-15:282, 15:284-15:288, 15:290, 15:292-15:296,	*07:20, 07:24, 07:60, 07:100, 07:131, 08:21, 08:25, 13:03-13:04, 13:48, 13:62, 18:36, 18:56-18:58, 35:01:01:01-35:01:35, 35:01:37-35:03:05, 35:03:07-35:14:02, 35:16-35:30, 35:32:01-35:32:02, 35:34, 35:36-35:59, 35:61:01-35:64:02, 35:67-35:72, 35:74-35:85, 35:89-35:92, 35:94-35:95, 35:97-35:130N, 35:132-35:156, 35:158-35:163, 35:165N-35:187, 35:189, 35:191-35:212, 35:214, 35:216N-35:229, 35:231-35:233, 35:235-35:248, 38:30, 39:32-39:33, 39:74, 40:05, 40:26, 40:28, 40:63, 40:71, 40:92, 40:174, 41:17, 44:10, 44:14, 44:17, 44:43:01-44:43:02, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 44:135, 45:09, 45:14, 46:01:01-46:02, 46:04-46:05, 46:07N-46:17, 46:19-46:20, 46:22-46:28, 46:31-46:50, 46:52-46:57, 48:02:01-48:02:03, 48:25, 49:04, 51:01:01-51:01:31, 51:01:33-51:01:38, 51:01:40-51:09:02, 51:11N-51:15,

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Lot-specific information

Lot No.: <b>66V</b>		Lot-specific information	
		15:298 <sup>w</sup> , 15:299-15:300, 15:303, 15:304N <sup>w</sup>	51:19-51:20, 51:22-51:24:05, 51:26-51:30, 51:32-51:33, 51:35, 51:37-51:41N, 51:43-51:46, 51:48-51:80, 51:83-51:84, 51:86-51:92, 51:94-51:100, 51:102-51:142, 51:145-51:152, 51:154-51:156, 51:158-51:166, 52:01:01:01-52:01:10, 52:01:12-52:07, 52:09-52:25, 52:27-52:36, 53:01:01-53:01:06, 53:01:08-53:06, 53:08:01-53:31, 54:03, 54:06, 55:08, 55:51, 56:01:01-56:09, 56:11, 56:13-56:17, 56:20:01-56:22, 56:24-56:30, 56:33-56:43, 57:01:01-57:01:02, 57:01:04-57:03:02, 57:06-57:12, 57:14-57:24, 57:27-57:31, 57:33-57:40, 57:42, 57:44-57:69, 58:01:01-58:02, 58:04, 58:06-58:19, 58:21-58:26, 58:28-58:29, 58:31N-58:34, 58:36, 58:38-58:58, 59:04, 78:01:01-78:06, 82:01-82:03, <b>C*03:81, C*03:175, C*03:199, C*15:15</b>
<b>23<sup>6</sup></b>	230 bp	1070 bp	*15:19, 15:304N *46:24
<b>24</b>	205 bp 305 bp	1070 bp	*15:26N *15:33, 15:72, 15:78:01-15:78:03, 15:107, 15:116, 15:141, 15:150, 15:188, 15:209N, 15:248, 15:287 *46:06, 46:45
<b>25</b>	315 bp 385 bp	1070 bp	*15:46, 15:53, 15:106, 15:212 *15:28
<b>26</b>	230 bp	1070 bp	*15:32:01-15:32:02, 15:299 <b>C*03:178, C*07:186, 07:242, 07:265</b>
<b>27<sup>5</sup></b>	115 bp	1070 bp	*15:33, 15:248 *49:22, 51:126, 57:54, <b>C*03:87, C*05:27, 05:39</b>
<b>28</b>	240 bp	1070 bp	*15:35, 15:141, 15:290
<b>29</b>	255 bp	1070 bp	*15:37-15:38:02, 15:185 *14:05-14:06:01, 14:13, 18:01:01:01-18:01:05, 18:01:07-18:01:19, 18:03-18:07:02, 18:09, 18:12-18:15, 18:17N, 18:19-18:20, 18:23N-18:26, 18:28-18:34, 18:36-18:44:01, 18:45-18:51, 18:53-18:55, 18:57, 18:59-18:96, 39:32, 39:43, 39:48, 40:51, 40:113, 40:163, 40:174, 51:06:01, 51:45, 51:62, 51:64, 51:135, 56:31
<b>30<sup>8</sup></b>	320 bp  355 bp	1070 bp	*15:40, 15:47:01-15:47:02, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 15:238, 15:241 *15:75 *46:06, 46:25, 46:30
<b>31</b>	320 bp  395 bp	1070 bp	*15:44, 15:50, 15:69, 15:83, 15:86, 15:93, 15:121, 15:186, 15:188, 15:199, 15:218Q, 15:224, 15:252, 15:265 *15:114, 15:153 *46:03, 46:18, 46:21:01-46:21:02, 46:29
<b>32<sup>7</sup></b>	275 bp 350 bp 380 bp	1070 bp	*15:196 *15:190N *15:48, 15:108, 15:136, 15:235, 15:249 *46:19

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<b>33</b>	200 bp 255 bp  340 bp	1070 bp	*15:118 *15:18:03, 15:42, 15:73, 15:86, 15:224, 15:303 *15:192, 15:281	*46:11, 46:18
<b>34<sup>8</sup></b>	160 bp	1070 bp	*15:51, 15:179:01, 15:199, 15:218Q	*08:28, 08:35, 08:37, 08:89, 08:107, 18:56, 35:115, 37:35, 41:24, 41:30, 42:09, 44:17, 45:09, 51:97, 53:22, 57:24, <b>C*07:68, C*07:140, C*07:151, C*07:302</b>
<b>35</b>	165 bp	1070 bp	*15:30, 15:58, 15:73, 15:150, 15:303	*08:70, 13:31, 13:41, 35:44, 39:36, 48:19, 51:61:01-51:61:02, 52:21, 55:21, 56:43, <b>C*02:68</b>
<b>36</b>	360 bp 435 bp	<b>800 bp</b>	*15:82, 15:260 *15:36, 15:89, 15:115, 15:256	<b>C*03:186:01</b>
<b>37</b>	170 bp	1070 bp	*15:47:01-15:47:02, 15:49, 15:65, 15:84, 15:99, 15:221, 15:237	*07:02:01-07:02:17, 07:02:19- 07:02:25, 07:02:27-07:03, 07:05:01- 07:13, 07:15-07:16, 07:18:01- 07:18:02, 07:20-07:24, 07:27, 07:29- 07:33:02, 07:35-07:42, 07:44, 07:45 <sup>w</sup> , 07:46-07:47, 07:49N-07:51, 07:52 <sup>w</sup> , 07:53-07:54, 07:56:01-07:65, 07:67N- 07:79, 07:81-07:95, 07:97-07:99, 07:101-07:114, 07:116-07:130, 07:132-07:145, 07:148-07:163, 07:165-07:171, 07:173-07:177, 07:179-07:196, 07:198-07:208, 07:210, 08:20, 08:40, 08:79, 13:18, 13:73, 18:13, 18:21, 18:30, 35:08:01- 35:08:06, 35:18, 35:45, 35:61:01- 35:61:02, 35:66, 35:80, 35:99-35:100, 35:105, 35:142, 35:156, 35:158, 35:172, 35:174, 35:176, 35:187, 35:192, 35:206, 35:225, 35:229, 35:232, 37:07, 39:08 <sup>w</sup> , 39:11 <sup>w</sup> , 39:33, 40:15-40:16, 40:23, 40:32, 40:98, 40:128, 40:161, 40:198, 46:03, 48:05, 48:08, 51:05, 51:29, 51:54, 51:82, 52:24, 53:11, 53:16, 53:24, 54:10, 54:20, 55:09, 55:37, 55:52, 57:02:01- 57:02:02, 57:12-57:13, 57:19, 57:28N, 57:30, 57:42, 57:63, 58:22, <b>C*01:90, C*04:108, C*15:08</b>
<b>38<sup>6</sup></b>	225 bp	1070 bp	*15:61, 15:70, 15:76, 15:101, 15:180 <sup>w</sup> , 15:189, 15:236, 15:255	*07:29 <sup>w</sup> , 07:65, 07:72, 07:86, 08:01:01 <sup>w</sup> -08:01:23 <sup>w</sup> , 08:04 <sup>w</sup> -08:05 <sup>w</sup> , 08:07 <sup>w</sup> -08:22 <sup>w</sup> , 08:24 <sup>w</sup> -08:25 <sup>w</sup> , 08:26, 08:27 <sup>w</sup> -08:49 <sup>w</sup> , 08:50, 08:51 <sup>w</sup> - 08:53:02 <sup>w</sup> , 08:55 <sup>w</sup> -08:65 <sup>w</sup> , 08:67N <sup>w</sup> - 08:71 <sup>w</sup> , 08:73 <sup>w</sup> -08:93 <sup>w</sup> , 08:95 <sup>w</sup> - 08:109 <sup>w</sup> , 08:111 <sup>w</sup> -08:115 <sup>w</sup> , 14:11, 14:28 <sup>w</sup> , 27:106 <sup>w</sup> , 35:29:01-35:29:02, 35:69, 35:76, 35:136, 35:186 <sup>w</sup> , 35:198, 35:229, 39:04, 39:63, 40:43 <sup>w</sup> , 40:166 <sup>w</sup> , 41:27 <sup>w</sup> , 44:90, 45:06 <sup>w</sup> , 46:01:01 <sup>w</sup> , 46:01:03 <sup>w</sup> -46:01:15 <sup>w</sup> , 46:03 <sup>w</sup> -46:04 <sup>w</sup> , 46:06 <sup>w</sup> -46:34 <sup>w</sup> , 46:36 <sup>w</sup> -46:49 <sup>w</sup> ,

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<b>39</b>	315 bp 385 bp	<b>800 bp</b>	*15:60, 15:119 *15:95, 15:285	<b>C*07:213</b>
<b>40<sup>7</sup></b>	220 bp 425 bp	1070 bp	*15:71, 15:175 *15:13:01-15:13:02, 15:16:01-15:17:02, 15:23-15:24:02, 15:67, 15:95, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:254, 15:268, 15:273	<b>C*06:77</b>
<b>41</b>	465 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06- 15:08:01, 15:11:01-15:16:03, 15:18:01- 15:19, 15:21, 15:23-15:29, 15:31-15:36, 15:38:01-15:40, 15:43-15:44, 15:46- 15:47:02, 15:49-15:57, 15:60-15:62, 15:64:01-15:72, 15:74-15:76, 15:78:01- 15:82, 15:84-15:85, 15:87-15:89, 15:91- 15:98, 15:101-15:129, 15:131-15:132, 15:134-15:136, 15:138-15:149N, 15:151- 15:161, 15:163-15:167, 15:169-15:176, 15:178-15:187, 15:189-15:195, 15:197- 15:207, 15:209N-15:215, 15:217-15:223, 15:225-15:227, 15:228 <sup>?</sup> , 15:231-15:232, 15:234-15:242, 15:244-15:247, 15:249- 15:251, 15:254-15:268, 15:270-15:272N, 15:274-15:286, 15:288-15:302N, 15:304N	*35:43:01, 35:185, 46:01:01-46:10, 46:12-46:17, 46:19-46:57, 56:03
<b>42</b>	345 bp	1070 bp	*15:02:01-15:03:04, 15:05:01-15:06, 15:09-15:10:02, 15:13:01-15:13:02, 15:16:01-15:18:06, 15:21, 15:23, 15:25:01-15:25:03, 15:29, 15:31, 15:36- 15:37, 15:39:01-15:40, 15:44, 15:48, 15:52, 15:55, 15:61-15:62, 15:64:01- 15:64:02, 15:67, 15:69, 15:72, 15:74, 15:80, 15:86, 15:88 <sup>w</sup> , 15:89-15:91, 15:93, 15:95, 15:98, 15:103, 15:106- 15:108, 15:112, 15:114-15:115, 15:119, 15:121, 15:123-15:124, 15:127, 15:131- 15:134, 15:136, 15:138-15:139, 15:151, 15:153, 15:155-15:156, 15:158, 15:161- 15:162, 15:170, 15:173, 15:176 <sup>w</sup> , 15:177, 15:185-15:186, 15:188, 15:194-15:198, 15:200 <sup>w</sup> , 15:204, 15:208, 15:210,	*46:06, 46:08, 46:11, 46:13:01- 46:13:03, 46:18-46:19, 46:21:01- 46:21:02, 46:25-46:26, 46:33, 46:43

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	460 bp		*15:73, 15:86, 15:224, 15:303
<b>43</b>	525 bp	1070 bp	*15:04:01, 15:16:01-15:16:03, 15:67, 15:83, 15:95, 15:137, 15:155, 15:222, 15:254, 15:293, 15:303
			46:11, 46:18
			*46:11, 46:18, 46:32
<b>44</b>	515 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:13, 15:01:15-15:01:34, 15:03:01-15:03:04, 15:05:01-15:05:02, 15:07:01-15:11:02, 15:11:04-15:12, 15:14-15:15, 15:17:01:01-15:18:01, 15:18:03-15:19, 15:23-15:24:02, 15:26N <sup>w</sup> , 15:28-15:31, 15:33-15:35, 15:37-15:40, 15:43, 15:45-15:58, 15:60-15:61, 15:63-15:66, 15:68-15:76, 15:78:01-15:79N, 15:81-15:82, 15:87, 15:90-15:94N, 15:96-15:99, 15:101-15:105, 15:107-15:108, 15:111N, 15:113-15:120, 15:122-15:128, 15:131-15:136, 15:138, 15:140-15:143, 15:145-15:153, 15:156-15:169, 15:171-15:183, 15:185-15:193, 15:196-15:203, 15:205-15:212, 15:215-15:221, 15:224-15:227, 15:228 <sup>?</sup> , 15:229-15:239, 15:241-15:249, 15:251-15:253, 15:255-15:264, 15:266-15:270, 15:272N-15:282, 15:284-15:288, 15:290, 15:292, 15:294N-15:296, 15:298, 15:300, 15:304N
			*35:43:01, 35:185, 46:01:01-46:10, 46:12-46:17, 46:19-46:31, 46:34-46:57, 56:03
<b>45</b>	475 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:34, 15:03:01-15:05:02, 15:07:01-15:12, 15:14-15:16:03, 15:18:01-15:19, 15:23-15:24:02, 15:26N-15:30, 15:32:01-15:35, 15:37-15:40, 15:43, 15:45-15:54, 15:56-15:58, 15:60-15:76, 15:78:01-15:87, 15:90-15:99, 15:101-15:105, 15:107-15:111N, 15:113-15:120, 15:122-15:127, 15:129, 15:131-15:136, 15:138, 15:140-15:143, 15:145-15:155, 15:157-15:161, 15:163-15:167, 15:169, 15:171-15:176, 15:178-15:195, 15:197-15:203, 15:205-15:206, 15:209N-15:210, 15:212, 15:215, 15:217-15:227, 15:228 <sup>?</sup> , 15:229, 15:231-15:232, 15:234-15:239, 15:241-15:249, 15:251-15:264, 15:266-15:270, 15:272N, 15:274-15:282, 15:284-15:288, 15:290, 15:292-15:296, 15:298-15:300, 15:303-15:304N
			*35:43:01, 35:185, 46:01:01-46:57, 56:03
<b>46</b>	355 bp	<b>800 bp</b>	*15:01:01:01-15:01:04, 15:01:06-15:04:01, 15:06-15:19, 15:21, 15:23-15:30, 15:32:01-15:40, 15:43-15:47:02, 15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:74, 15:76-15:82, 15:85, 15:87,
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<b>47</b>	320 bp      1070 bp	*15:01:01:01-15:01:04, 15:01:06- 15:01:30, 15:01:32-15:19, 15:21, 15:23- 15:39:02, 15:43, 15:45-15:46, 15:48, 15:51, 15:53-15:58, 15:60-15:68, 15:70- 15:82, 15:84-15:85, 15:87-15:92, 15:94N-15:99, 15:101-15:113, 15:115- 15:116, 15:118-15:120, 15:122-15:123, 15:125-15:129, 15:131-15:137, 15:139- 15:185, 15:187, 15:189-15:198, 15:200- 15:217, 15:219-15:223, 15:225-15:227. 15:228 <sup>?</sup> , 15:229-15:237, 15:239-15:240, 15:242-15:251, 15:253-15:264, 15:266- 15:304N	*35:43:01, 35:185, 46:01:01-46:02, 46:04-46:05, 46:07N-46:17, 46:19- 46:20, 46:22-46:28, 46:31-46:57, 56:03
<b>48</b>	420 bp      1070 bp	*15:01:01:01-15:01:04, 15:01:06- 15:01:16, 15:01:17 <sup>w</sup> , 15:01:18-15:19, 15:21, 15:23-15:32:02, 15:34-15:40, 15:43-15:58, 15:60-15:71, 15:73-15:77, 15:79N-15:99, 15:101-15:106, 15:108- 15:115, 15:117-15:129, 15:131-15:140, 15:142-15:149N, 15:151-15:187, 15:189- 15:227, 15:228 <sup>?</sup> , 15:229-15:247, 15:249- 15:286, 15:288-15:294N, 15:296- 15:304N	*35:43:01, 35:185, 46:01:01-46:05, 46:07N-46:44, 46:46-46:53, 46:55N- 46:57, 56:03
<b>49</b>	135 bp      1070 bp	*15:57, 15:135	*13:39, 13:67
<b>50<sup>s</sup></b>	85 bp      1070 bp	*15:67	*35:110, <b>A*68:56</b>
	185 bp	*15:206	
<b>51</b>	135 bp      1070 bp	*15:98, 15:109, 15:163	
	175 bp	*15:277-15:278	*35:122, 56:29
	200 bp	*15:246N	
<b>52</b>	195 bp <b>800 bp</b>	*15:104	
	345 bp	*15:92, 15:213	
<b>53</b>	210 bp <b>800 bp</b>	*15:96	<b>C*03:175, 03:199</b>
<b>54</b>	250 bp <b>800 bp</b>	*15:187	<b>C*12:36</b>
	410 bp	*15:97	
<b>55</b>	175 bp      1070 bp	*15:214	*07:120, 18:81, 40:150, 51:165, 57:29
	255 bp	*15:102, 15:284	*51:30, 73:01-73:02
<b>56<sup>s</sup></b>	70 bp      1070 bp	*15:103	
	260 bp	*15:227,	*27:69, 37:23, 40:213
<b>57</b>	345 bp      1070 bp	*15:111N	
<b>58</b>	170 bp      1070 bp	*15:113	



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<b>59<sup>7</sup></b>	230 bp 375 bp 420 bp	<b>800 bp</b>	*15:191, 15:234 *15:198 *15:94N, 15:294N	<b>C*06:33</b> *35:161
<b>60</b>	160 bp	<b>800 bp</b>	*15:20, 15:228, 15:271	*35:01:01:01-35:01:27, 35:01:29-35:30, 35:32:01-35:42:02, 35:44-35:56, 35:58-35:59, 35:61:01-35:72, 35:74-35:78, 35:80-35:86, 35:88-35:184, 35:186-35:248, 48:02:01-48:02:03, 51:01:01-51:24:05, 51:26-51:41N, 51:43-51:46, 51:48-51:156, 51:158-51:163, 51:165-51:166, 52:01:01:01-52:06:02, 52:08-52:36, 53:01:01-53:31, 56:05:01-56:05:02, 56:21, 56:36, 58:01:01-58:02, 58:04-58:10N, 58:12-58:19, 58:21-58:29, 58:31N-58:58, 78:01:01-78:07, 81:03, 83:01 <sup>?</sup>
<b>61</b>	160 bp 205 bp	1070 bp	*15:175 *15:125	*44:22, 44:105, 49:24
<b>62<sup>5</sup></b>	105 bp	1070 bp	*15:126	*07:175
<b>63</b>	175 bp	1070 bp	*15:127	
<b>64<sup>5</sup></b>	90 bp 365 bp	<b>800 bp</b>	*15:302N *15:122	<b>C*03:48, C*06:85</b>
<b>65</b>	520 bp	1070 bp	*15:129	
<b>66<sup>6</sup></b>	435 bp	1070 bp	*15:02:01-15:02:08, 15:13:01-15:13:02, 15:20-15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:77, 15:85, 15:88-15:89, 15:112, 15:118, 15:121, 15:139, 15:144, 15:154, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 15:250, 15:265, 15:271, 15:283, 15:289, 15:291, 15:297, 15:301-15:302N	*13:01:01-13:01:08, 13:06-13:07N, 13:12:01-13:13, 13:17, 13:20-13:23, 13:25-13:26:02, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 13:60-13:61, 13:63N, 13:73, 35:46, 35:207, 40:137, 44:08, 44:57, 44:60, 46:33, 57:01:01-57:10, 57:12-57:15, 57:17-57:33, 57:34 <sup>w</sup> , 57:35-57:44, 57:46-57:50, 57:52-57:66, 57:68, 58:36
<b>67</b>	265 bp 300 bp	<b>800 bp</b>	*15:53, 15:183, 15:212 *15:132	*46:10
<b>68</b>	215 bp 380 bp	1070 bp	*15:134 *15:247	<b>C*05:03</b>
<b>69</b>	130 bp	1070 bp	*15:57	
<b>70<sup>5</sup></b>	90 bp 185 bp	1070 bp	*15:208 *15:138, 15:230, 15:241, 15:297	*07:68:01-07:68:03, 18:35, 35:66, 40:77, 40:87:01-40:87:02, 40:121, 40:158, 40:222, 40:237, 44:150, 48:12, 48:14, 48:26, 48:29
<b>71</b>	315 bp 400 bp	1070 bp	*15:205 *15:139	
<b>72<sup>5</sup></b>	110 bp 295 bp 390 bp	1070 bp	*15:226N *15:140 *15:201	*35:216N, 39:87N *51:166

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73	155 bp	1070 bp	*15:09, 15:30 <sup>w</sup> , 15:42, 15:58 <sup>w</sup> , 15:73 <sup>w</sup> , 15:150 <sup>w</sup> , 15:229, 15:243, 15:252, 15:303 <sup>w</sup>	*07:05:01-07:06, 07:32, 07:34, 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, 07:210, 08:20, 08:79, 13:16, 13:20, 13:31 <sup>w</sup> , 13:48, 13:62, 14:13, 27:20, 27:24, 35:44 <sup>w</sup> , 38:10, 38:32, 39:35, 39:36 <sup>w</sup> , 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:51, 40:95, 40:148, 40:158, 40:161, 40:174, 40:183, 40:198, 42:19, 48:05, 48:15, 51:01:01- 51:01:18, 51:01:19 <sup>w</sup> , 51:01:20- 51:01:30, 51:01:32-51:02:02, 51:02:04-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16, 51:21-51:24:05, 51:26-51:30, 51:32-51:35, 51:38- 51:39, 51:41N, 51:43, 51:46, 51:48- 51:53, 51:55-51:60, 51:61:01 <sup>w</sup> - 51:61:02 <sup>w</sup> , 51:62-51:71, 51:74-51:80, 51:82-51:84, 51:86, 51:88-51:89, 51:95-51:96, 51:98N-51:107, 51:109- 51:114, 51:116-51:121, 51:123- 51:134, 51:136-51:138, 51:140, 51:142-51:145, 51:147, 51:149N- 51:152, 51:154-51:156, 51:158- 51:166, 52:01:01:01-52:01:10, 52:01:12-52:02:02, 52:04-52:09, 52:11, 52:13-52:18, 52:20, 52:21 <sup>w</sup> , 52:22-52:25, 52:27-52:36, 54:20, 55:01:01-55:01:11, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21 <sup>w</sup> , 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44- 55:45, 55:52-55:55N, 55:59-55:60, 56:05:01-56:06, 56:21, 56:25, 56:37, 57:57, 57:63, 58:08:01-58:08:02, 78:01:01-78:03, 78:05-78:07, <b>C*01:90,</b> <b>C*02:68<sup>w</sup>, C*15:24</b>
74 <sup>5</sup>	75 bp 230 bp	<b>800 bp</b>	*15:145, 15:176 *15:262N	*35:237, 52:28
75	280 bp 390 bp	1070 bp	*15:146 *15:201	
76	475 bp	1070 bp	*15:02:01-15:02:08, 15:06, 15:13:01- 15:13:02, 15:17:01:01-15:17:02, 15:21, 15:25:01-15:25:03, 15:31, 15:36, 15:44, 15:55, 15:77, 15:88-15:89, 15:106, 15:112, 15:121, 15:128, 15:137, 15:139, 15:144, 15:156, 15:162, 15:168, 15:170, 15:177, 15:196, 15:204, 15:208, 15:213- 15:214, 15:216, 15:230, 15:233, 15:240, 15:250, 15:265, 15:271, 15:273, 15:283, 15:289, 15:291, 15:297, 15:301-15:302N	
77 <sup>6</sup>	185 bp 230 bp	1070 bp	*15:174 *15:123, 15:220	

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78 <sup>5</sup>	110 bp	1070 bp	*15:142	*07:29, 07:186, 08:01:11, 08:56:01, 35:218, 51:68, 57:49, <b>C*07:02:30</b> *46:42
	385 bp		*15:147	
79	135 bp	<b>800 bp</b>	*15:270	
	215 bp		*15:182N	
	420 bp		*15:148	
80 <sup>5,7</sup>	85 bp	1070 bp	*15:149N	
	225 bp		*15:263	
81 <sup>8</sup>	395 bp	1070 bp	*15:11:01-15:11:06, 15:143, 15:148- 15:149N, 15:152, 15:209N, 15:215, 15:284, 15:303	
82 <sup>5,7</sup>	80 bp	1070 bp	*15:81	*58:47
	200 bp		*15:246N	*35:222, 40:76, <b>C*05:30</b>
	245 bp		*15:277	
83 <sup>8</sup>	210 bp	1070 bp		
84 <sup>7</sup>	155 bp	1070 bp	*15:167	<b>C*03:168</b> *35:117
	195 bp		*15:211	
	235 bp		*15:197, 15:215	
85 <sup>7</sup>	340 bp	1070 bp	*15:157	<b>C*07:335</b>
	395 bp		*15:76, 15:101, 15:255	
	420 bp		*15:164	
86	230 bp	1070 bp	*15:166	
	260 bp		*15:272N	
	400 bp		*15:193	
87 <sup>5</sup>	85 bp	1070 bp	*15:71, 15:175, 15:204, 15:225	*18:29, 35:50, 35:231, 37:22, 40:248, 41:12, 46:14, 49:03, 51:151, 54:02, 55:16, 56:35, 57:39, 58:41
	295 bp		*15:169	
88	240 bp	<b>800 bp</b>	*15:171	
	445 bp		*15:158	
89	370 bp	1070 bp	*15:160	
	420 bp		*15:94N, 15:294N	
90 <sup>5</sup>	95 bp	1070 bp	*15:202, 15:239	*13:58, 18:12, 35:10, 35:13, 35:16, 35:28, 35:69, 35:80, 35:226, 37:01:01- 37:01:05, 37:01:07-37:05, 37:07, 37:09-37:27, 37:29-37:47, 40:185, 40:209, 44:83, 44:134, 49:03, 52:01:01:01-52:01:20, 52:03-52:15, 52:17, 52:19-52:31:01, 52:33-52:36, 53:17:01-53:17:02, 53:28, 78:05-78:06 *18:63, 50:11
	195 bp		*15:173	
91 <sup>9</sup>	135 bp	1070 bp	*15:184, 15:203	
	325 bp		*15:170	
92 <sup>5</sup>	95 bp	1070 bp	*15:266	*13:37, 38:49
	155 bp		*15:172	
93	255 bp	1070 bp	*15:258N, 15:304N	
	295 bp		*15:177	
	385 bp		*15:120	
94	260 bp	1070 bp	*15:272N	
	285 bp		*15:123	
	325 bp		*15:178	

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95	340 bp 395 bp	1070 bp	*15:181N *15:40, 15:47:01-15:47:02, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 15:238, 15:241	*46:06, 46:25, 46:30
96 <sup>10</sup>	Negative Control			

<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\*15 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 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>Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B\*15 alleles will be amplified by primer mixes 1 to 3, 6 to 9, 11, 15, 16, 18, 20, 22 to 24, 27, 29 to 35, 37, 38, 41 to 51, 55, 56, 59 to 62, 66, 67, 70, 72 to 74, 78, 82 to 84, 87, 90, 92 and 95. In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 3, 7, 15, 18, 21, 22, 26, 27, 34 to 37, 39, 40, 50, 53, 59, 64, 68, 73, 78, 82, 84 and 85.

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

<sup>6</sup>Primer mix 23, 38, 66 and 77 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*15 primer mixes.

<sup>7</sup>Primer mixes 12, 15, 32, 40, 59, 80, 82, 84 and 85 have a tendency to giving rise to primer oligomer formation.

<sup>8</sup>Primer mixes 5, 11, 19, 30, 34, 81 and 83 may have tendencies of unspecific amplifications.

<sup>9</sup>Primer mix 91 may give rise to a long unspecific amplification product of approximately 800 bp. This should be disregarded when interpreting the B\*15 typings.

<sup>10</sup>Primer mix 96 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

'w', might be weakly amplified.

'?', 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. PCR product	395	290	120	180	385	525	330	105	365	300	140	400
Length of int. pos. control <sup>1</sup>	800	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070
5'-primer(s) <sup>2</sup>	45 5'-ggA 3'	45 5'-ggA 3'	463 5'-TgA 3'	45 5'-ggA 3'	45 5'-ggA 3'	355 5'-TCA 3'	45 5'-ggA 3'	357 5'-Tgg 3'	2 <sup>nd</sup>   5'-CAA 3'	360 5'-CAC 3'	363 5'-AgC 3'	45 5'-ggA 3'
										368 5'-gTT 3'		
										583 5'-gAC 3'		
3'-primer(s) <sup>3</sup>	272 5'-Tgg 3'	165 5'-Tgg 3'	538 5'-CCA 3'	2 <sup>nd</sup>   5'-gAC 3'	259 5'-gTT 3'	3 <sup>rd</sup>   5'-ATC 3'	206 5'-CCT 3'	419 5'-Cgg 3'	527 5'-CCA 3'	3 <sup>rd</sup>   5'-ATC 3'	463 5'-gCT 3'	272 5'-TgA 3'
			545 5'-AgA 3'	267 5'-ATg 3'				419 5'-CgA 3'				287 5'-TCC 3'
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	395	465	105	120	435	195	395	360	205	190	230	205
Length of int. pos. control <sup>1</sup>	800	1070	1070	1070	1070	1070	800	1070	1070	800	1070	1070
5'-primer(s) <sup>2</sup>	45 5'-ggA 3'	368 5'-gTg 3'	369 5'-TAC 3'	419 5'-gTC 3'	45 5'-ggA 3'	419 5'-gTC 3'	45 5'-ggA 3'	379 5'-ACC 3'	45 5'-ggA 3'	409 5'-ggC 3'	821 5'-gCT 3'	2 <sup>nd</sup>   5'-CAA 3'
		419 5'-gTA 3'						523 5'-CCT 3'				
3'-primer(s) <sup>3</sup>	272 5'-TgC 3'	3 <sup>rd</sup>   5'-ATC 3'	435 5'-TCT 3'	499 5'-ggA 3'	309 5'-ATC 3'	572 5'-gCg 3'	266 5'-TCC 3'	3 <sup>rd</sup>   5'-ATC 3'	83 5'-TgA 3'	559 5'-CAg 3'	916 5'-gAT 3'	369 5'-CCT 3'
	311 5'-ggT 3'			570 5'-CCg 3'			278 5'-TgA 3'		301 5'-gTC 3'			463 5'-gCg 3'
												471 5'-gTT 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product	315	230	115	240	255	320	320	275	200	160	165	360
						355	395	350	255			435
								380	340			
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	800
5'-primer(s) <sup>2</sup>	45 5'-ggA 3'	368 5'-gTC 3'	485 5'-CAA 3'	362 5'-gAC 3'	369 5'-TAC 3'	526 5'-gTC 3'	488 5'-ggg 3'	2 <sup>nd</sup>   5'-CAA 3'	2 <sup>nd</sup>   5'-CAA 3'	419 5'-gTC 3'	412 5'-ATA 3'	45 5'-ggA 3'
						560 5'-CgA 3'	560 5'-CAC 3'					
3'-primer(s) <sup>3</sup>	193 5'-CgT 3'	558 5'-Agg 3'	559 5'-CAg 3'	559 5'-CAg 3'	583 5'-gTg 3'	3 <sup>rd</sup>   5'-ATC 3'	3 <sup>rd</sup>   5'-ATC 3'	437 5'-AAA 3'	362 5'-TCA 3'	538 5'-gTC 3'	538 5'-CCA 3'	238 5'-CCT 3'
	263 5'-gTA 3'							513 5'-TCT 3'	420 5'-gCT 3'			309 5'-gTg 3'
								544 5'-ggT 3'	505 5'-gCT 3'			
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

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Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product	170	225	315	220	465	345	525	515	475	355	320	420
			385	425		460						
Length of int. pos. control <sup>1</sup>	1070	1070	<b>800</b>	1070	1070	1070	1070	1070	1070	<b>800</b>	1070	1070
5'-primer(s) <sup>2</sup>	409 5'-ggC <sup>3'</sup>	106 5'-CCA <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	419 5'-gTC <sup>3'</sup>	420 5'-TTA <sup>3'</sup>	357 5'-Tgg <sup>3'</sup>	369 5'-TAC <sup>3'</sup>	409 5'-ggC <sup>3'</sup>	527 5'-TgA <sup>3'</sup>	560 5'-CCT <sup>3'</sup>	463 5'-TgA <sup>3'</sup>
						539 5'-gCT <sup>3'</sup>						
3'-primer(s) <sup>3</sup>	538 5'-CCg <sup>3'</sup>	292 5'-gTC <sup>3'</sup>	181 5'-gTT <sup>3'</sup>	97 5'-gTg <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>
			203 5'-CTg <sup>3'</sup>	302 5'-ggT <sup>3'</sup>								
			257 5'-CCT <sup>3'</sup>									
			267 5'-ATg <sup>3'</sup>									
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product	135	85	135	195	210	250	175	70	345	170	230	160
		185	175	345		410	255	260			375	
			200								420	
Length of int. pos. control <sup>1</sup>	1070	1070	1070	<b>800</b>	<b>800</b>	<b>800</b>	1070	1070	1070	1070	<b>800</b>	<b>800</b>
5'-primer(s) <sup>2</sup>	209 5'-ggC <sup>3'</sup>	463 5'-TgA <sup>3'</sup>	106 5'-CCA <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	419 5'-gTC <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	3 <sup>rd</sup>   5'-Agg <sup>3'</sup>	25 5'-CCg <sup>3'</sup>	539 5'-gTg <sup>3'</sup>	145 5'-CAA <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	652 5'-CCg <sup>3'</sup>
				3 <sup>rd</sup>   5'-Agg <sup>3'</sup>				652 5'-CCA <sup>3'</sup>			673 5'-CCA <sup>3'</sup>	661 5'-ACg <sup>3'</sup>
3'-primer(s) <sup>3</sup>	302 5'-ggT <sup>3'</sup>	506 5'-TgT <sup>3'</sup>	200 5'-TCA <sup>3'</sup>	221 5'-ATA <sup>3'</sup>	589 5'-CTT <sup>3'</sup>	127 5'-CTg <sup>3'</sup>	704 5'-CCA <sup>3'</sup>	56 5'-TCg <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>	272 5'-Tgg <sup>3'</sup>	107 5'-ACT <sup>3'</sup>	774 5'-ggT <sup>3'</sup>
		608 5'-gCC <sup>3'</sup>	200 5'-TCA <sup>3'</sup>	723 5'-Tgg <sup>3'</sup>		288 5'-gTg <sup>3'</sup>	779 5'-CTA <sup>3'</sup>	872 5'-TCA <sup>3'</sup>			295 5'-TCA <sup>3'</sup>	
			239 5'-gCT <sup>3'</sup>				787 5'-TCC <sup>3'</sup>				916 5'-gAT <sup>3'</sup>	
			263 5'-..g <sup>3'</sup>									
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec. PCR product	160	105	175	90	520	435	265	215	130	90	315	110
	205			365			300	380		185	400	295
												390
Length of int. pos. control <sup>1</sup>	1070	1070	1070	<b>800</b>	1070	1070	<b>800</b>	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	106 5'-CCg <sup>3'</sup>	363 5'-AgC <sup>3'</sup>	419 5'-gTC <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	363 5'-AAT <sup>3'</sup>	209 5'-ggC <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	419 5'-gTC <sup>3'</sup>	209 5'-ggC <sup>3'</sup>	463 5'-TgA <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	261 5'-AAC <sup>3'</sup>
	151 5'-gCC <sup>3'</sup>			724 5'-g.C <sup>3'</sup>		209 5'-ggC <sup>3'</sup>		668 5'-ggT <sup>3'</sup>				662 5'-CCT <sup>3'</sup>
												754 5'-ACg <sup>3'</sup>
3'-primer(s) <sup>3</sup>	272 5'-Tgg <sup>3'</sup>	425 5'-CgC <sup>3'</sup>	554 5'-CCg <sup>3'</sup>	242 5'-CCA <sup>3'</sup>	3 <sup>rd</sup>   5'-ATC <sup>3'</sup>	353 5'-TgA <sup>3'</sup>	142 5'-ggT <sup>3'</sup>	593 5'-CgC <sup>3'</sup>	299 5'-TCA <sup>3'</sup>	510 5'-CAA <sup>3'</sup>	189 5'-gCT <sup>3'</sup>	331 5'-CTA <sup>3'</sup>
				774 5'-ggT <sup>3'</sup>		362 5'-TCA <sup>3'</sup>	177 5'-AAA <sup>3'</sup>	916 5'-gAT <sup>3'</sup>		605 5'-gCT <sup>3'</sup>	277 5'-ggC <sup>3'</sup>	916 5'-gAT <sup>3'</sup>
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

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101.516-24u/04u – without *Taq* polymerase, IFU-02

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Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec. PCR product	155	75 230	280 390	475	185 230	110 385	135 215 420	85 225	395	80 200 245	210	155 195 235
Length of int. pos. control <sup>1</sup>	1070	<b>800</b>	1070	1070	1070	1070	<b>800</b>	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	412 5'-ATA 3'	368 5'-gTA 3' 523 5'-CCg 3'	662 5'-CCT 3' 769 5'-Agg 3'	409 5'-ggT 3'	47 5'-AgT 3' 463 5'-TgA 3'	97 5'-TCg 3' 495 5'-CAC 3'	45 5'-ggA 3' 679 5'-ggC 3'	267 5'-Ag 3' 824 5'-TTg 3'	45 5'-ggA 3'	106 5'-CCA 3'	322 5'-gCC 3'	363 5'-AgT 3' 404 5'-CCT 3' 446 5'-CgT 3'
3'-primer(s) <sup>3</sup>	527 5'-CCT 3'	559 5'-CAg 3'	916 5'-gAT 3'	3 <sup>rd</sup>   5'-ATC 3'	106 5'-CAT 3' 605 5'-gCA 3'	165 5'-Tgg 3' 3 <sup>rd</sup>   5'-ATC 3'	93 5'-AAC 3' 296 5'-CTT 3' 774 5'-ggT 3'	311 5'-ggT 3'	272 5'-TgT 3'	146 5'-CCg 3'	2 <sup>nd</sup>   5'-TCg 3'	559 5'-CAg 3'
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86	87	88	89	90	91	92	93	94	95
Length of spec. PCR product	340 395 420	230 260 400	85 295	240 445	370 420	95 195	135 325	95 155	255 295 385	260 285 325	340 395
Length of int. pos. control <sup>1</sup>	1070	1070	1070	<b>800</b>	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	45 5'-ggA 3'	2 <sup>nd</sup>   5'-CAA 3'	97 5'-TCC 3' 2 <sup>nd</sup>   5'-CAA 3'	45 5'-ggA 3'	45 5'-ggA 3'	206 5'-gAC 3' 463 5'-TgA 3'	45 5'-ggA 3' 365 5'-gAC 3' 376 5'-gCA 3'	463 5'-TgA 3'	45 5'-ggA 3' 369 5'-TAC 3'	2 <sup>nd</sup>   5'-CAA 3'	2 <sup>nd</sup>   5'-CAA 3'
3'-primer(s) <sup>3</sup>	218 5'-gCA 3' 272 5'-TgT 3' 296 5'-CTg 3'	394 5'-gCT 3' 426 5'-TCC 3' 565 5'-CAT 3'	142 5'-TgC 3' 457 5'-gTA 3'	118 5'-gCT 3' 323 5'-AgA 3'	247 5'-ATg 3' 295 5'-TCA 3'	259 5'-CTC 3' 616 5'-CgT 3'	203 5'-TCT 3' 463 5'-gCT 3'	515 5'-CCC 3' 578 5'-TgT 3'	135 5'-Ag 3' 173 5'-TCC 3' 261 5'-gTA 3' 585 5'-AgT 3'	426 5'-TCC 3'	502 5'-CTA 3' 487 5'-CgT 3' 916 5'-gAT 3'
Well No.	85	86	87	88	89	90	91	92	93	94	95

<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.

101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **66V**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-B*15 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.:	200967201	200967202	200849903	201434204	200849905	200849906	200967207	200849908	201203409	201203410	201203411	200849912	200967213	201184014	200849915	200849916
<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	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	+	+	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **66V**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*15 SSP subtyping kit <sup>2</sup>																				
				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	200849917	200849918	200849919	200849920	200967221	200849922	201314223	201184024	200849925	200849926	200849927	200849928	200849929	200849930	200849931	201184032
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	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTV3953540	*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	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-

101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **66V**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*15 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.:	201184033	200849934	200849935	200967236	200849937	200849938	201434239	200967240	200849941	200849942	200849943	200967244	200967245	200849946	201434247	200849948
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	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	+	+	-	+	+	+	+	+	+
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTV3953540	*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 DHF	*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	-	-	-	-	-	W	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **66V**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-B*15 SSP subtyping kit<sup>2</sup></b>																				
				<b>Well</b>																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201203449	201203450	201434251	201434252	200849953	201184054	201434255	201203456	200849957	200849958	201184059	201434260	200967261	200849962	200849963	201434264
<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	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-

101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **66V**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-B*15 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.:	200849965	200967266	201314267	201314268	200849969	201184070	201184071	201203472	201314273	201434274	201184075	200849976	201434296	201314278	201434279	201314280
<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	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **66V**

Lot-specific information

CELL LINE VALIDATION SHEET																		
HLA-B*15 SSP subtyping kit <sup>2</sup>																		
			Well															
			81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	
			Prod. No.:															
			200967281	201434282	201434283	201203484	201184085	201434286	201184087	201203488	201203489	201203490	201184091	201434292	201434293	201434294	201184095	
	IHWC 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	9004 JESTHOM	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075 DKB	*40:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037 SWEIG007	*40:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282 CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	9257 32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038 BM16	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059 SLE005	*40:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064 AMALA	*15:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056 KOSE	*35:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035 JBUSH	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049 IBW9	*14:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285 WT49	*58:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	9320 BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050 MOU	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021 RSH	*42:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	9019 DUCAF	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297 HAG	*41:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098 MT14B	*40:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104 DHIF	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302 SSTO	*44:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024 KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065 HHKB	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	9099 LZL	*15:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	9134 WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055 H0301	*14:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	9066 TAB089	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076 T7526	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057 TEM	*38:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013 SCHU	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045 TUBO	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	9303 TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

<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.

101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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**Lot No.: 66V**

**Lot-specific information**

<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 4, 9, 10, 18, 24 to 27, 30 to 34, 36, 39, 49 to 54, 56 to 59, 61 to 65, 67 to 72, 74, 75, 77 to 80, 82 to 89 and 91 to 95 were available. The specificities of the primers in primer solutions 9, 10, 18, 24 to 27, 30, 31, 33, 34, 36, 49, 53, 59, 61, 64, 65, 67, 68, 70, 72, 77 to 79, 82, 85, 87, 91, 94 and 95 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 4, 32, 39, 50 to 52, 54 to 56, 62, 63, 69, 71, 86, 88, 89, 92 and 93 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 57, 58, 74, 75, 80, 83 and 84 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 3, 12, 13, 19, 21, 24, 25, 33, 36, 59, 64, 67, 68, 70, 72, 77, 79, 82, 85, 87, 90, 91, 94 and 95 one or two 3'-primers were not possible to test.

In primer solutions 10, 14, 20, 30, 31, 59 to 61, 64, 72, 77, 78, 79, 91 and 94 one or two 5'-primers were not possible to test. Additional primers in primer solutions 16, 40, 42 and 90 were tested by separately adding one additional 5'-primer or one additional 3'-primer.

101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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101.516-24/04 – including *Taq* polymerase, IFU-01  
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **66V**

Lot-specific information

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