

Lot No.: **5L6**

Lot-specific information  
**Olerup SSP® HLA-C\*06**

**Product number:** 101.614-12 – including *Taq* polymerase  
101.614-12u – without *Taq* polymerase  
**Lot number:** 5L6  
**Expiry date:** 2024-09-01  
**Number of tests:** 12  
**Number of wells per test:** 62+1  
**Storage - pre-aliquoted primers:** dark at -20°C  
- PCR Master Mix: -20°C  
- Adhesive PCR seals RT  
- Product Insert RT

**This Product Description is only valid for Lot No. 5L6.**

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-C\*06 LOT (4K6)**

- The product documentation has been updated for new alleles of IMGT 3.40.0
- The kit resolution focuses on common and well documented (CWD) alleles<sup>1</sup>.
- The kit was increased with two wells, 62 and 63.

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

The HLA-C\*06 primer set, specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP®* HLA-C\*06 lot was made (**Lot No. 4K6**).

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

Well	5'-primer	3'-primer	rationale
5	Removed	-	Removed superfluous 5'-primer.
31	Moved	Moved	Primer pair moved to mix 62 for reducing tendency of primer oligomer formation.
52	Added	-	5'-primer added for the *06:91 allele.
53	Added	-	5'-primer added for the *06:91 allele.
61	Added	-	Negative control primer pair moved to mix 63. Primer pair added for the *06:115 allele.
62	Added	Added	Primer pair added from mix 31.
63	-	-	Negative control primer pair added from mix 61.

<sup>1</sup>S. J. Mack, P. Cano, J. A. Hollenbach et al.  
Common and well-documented HLA alleles: 2012 update to the CWD catalogue. *Tissue Antigens*, 2013, 81, 194–203



**Lot No.: 5L6**

**Lot-specific information**

Changes in revision R01 compared to R00:

1. Primer mix 56 does not amplify the C\*06:37 allele. The correction has been implemented in the Specificity and Interpretation tables.

**Lot No.: 5L6**

**Lot-specific information**

Well **63** contains Negative Control primer pairs, that will amplify a majority 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 200 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.

Lot No.: **5L6**

Lot-specific information

## PRODUCT DESCRIPTION

### HLA-C\*06 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C\*06:02 to HLA-C\*06:294 alleles.

#### PLATE LAYOUT

Each test consists of 63 PCR reactions in a 64 well PCR plate. Well 64 is 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	47	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	NC	empty

The 64 well cut PCR plate is marked with ‘HLA-C\*06’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘5L6’.

Wells 1 to 62 – HLA-C\*06 high resolution primers.

Well 63 – 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-C alleles, non-HLA-C\*06 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-C\*06 alleles, i.e. **C\*06:02 to C\*06:294**, recognized by the HLA Nomenclature Committee in April 2020<sup>1</sup> will be amplified by the primers in the HLA-C\*06 SSP kit<sup>2,3</sup>.

The HLA-C\*06 kit enables separation of the confirmed HLA-C\*06 alleles as listed in the IMGT/HLA database 3.24.0. 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-C\*06 alleles is listed below.

The HLA-C\*06 kit also enables identification of many null and alternatively expressed alleles.

**Lot No.: 5L6**

**Lot-specific information**

The following HLA-C\*06 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

<b>Alleles</b>	<b>Primer mix</b>	<b>Alleles</b>	<b>Primer mix</b>
C*06:07, 06:33	7	C*06:49N, 06:148	37
C*06:15, 06:116N	15	C*06:54, 06:133	40
C*06:16N, 06:21	16	C*06:57, 06:58	36
C*06:20, 06:74Q	34	C*06:66, 06:71	32
C*06:25, 06:36	21	C*06:70:01-06:70:02, 06:73	38
C*06:27, 06:29	20		

<sup>1</sup>HLA-C alleles listed on the IMGT/HLA web page 2020-April-20, release 3.40.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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

<sup>3</sup>The HLA-C\*06 primer set cannot separate the following alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or HLA-C\*04 high resolution kit.

**Alleles**

C\*06:76:02, C\*04:360  
 C\*06:127:01-06:127:02, 06:264, C\*04:220

**Lot No.: 5L6**

**Lot-specific information**

**ALLELE CONFIRMATION STATUS**

<b>Allele</b>	<b>Status<sup>1</sup></b>	<b>Allele</b>	<b>Status<sup>1</sup></b>	<b>Allele</b>	<b>Status<sup>1</sup></b>	<b>Allele</b>	<b>Status<sup>1</sup></b>
C*06:02:01:01	Confirmed	C*06:05	Unconfirmed	C*06:52	Unconfirmed	C*06:99	Unconfirmed
C*06:02:01:02	Confirmed	<b>C*06:06</b>	<b>Confirmed</b>	C*06:53:01	Unconfirmed	<b>C*06:100</b>	<b>Confirmed</b>
C*06:02:01:03	Confirmed	<b>C*06:07</b>	<b>Confirmed</b>	C*06:53:02	Unconfirmed	<b>C*06:101</b>	<b>Confirmed</b>
C*06:02:03	Confirmed	C*06:08	Unconfirmed	<b>C*06:54</b>	<b>Confirmed</b>	C*06:102	Unconfirmed
C*06:02:04	Confirmed	<b>C*06:09</b>	<b>Confirmed</b>	C*06:55	Unconfirmed	<b>C*06:103</b>	<b>Confirmed</b>
C*06:02:05	Confirmed	C*06:10	Unconfirmed	C*06:56	Unconfirmed	<b>C*06:104</b>	<b>Confirmed</b>
C*06:02:06	Confirmed	<b>C*06:11</b>	<b>Confirmed</b>	<b>C*06:57</b>	<b>Confirmed</b>	C*06:105	Unconfirmed
C*06:02:07	Confirmed	<b>C*06:12</b>	<b>Confirmed</b>	<b>C*06:58</b>	<b>Confirmed</b>	C*06:106:01	Unconfirmed
C*06:02:08	Confirmed	C*06:13	Unconfirmed	<b>C*06:59</b>	<b>Confirmed</b>	<b>C*06:106:02</b>	<b>Confirmed</b>
C*06:02:09	Confirmed	<b>C*06:14</b>	<b>Confirmed</b>	<b>C*06:60</b>	<b>Confirmed</b>	<b>C*06:107</b>	<b>Confirmed</b>
C*06:02:10	Unconfirmed	<b>C*06:15</b>	<b>Confirmed</b>	C*06:61	Unconfirmed	C*06:108	Unconfirmed
C*06:02:11	Unconfirmed	C*06:16N	Unconfirmed	C*06:62	Unconfirmed	C*06:109	Unconfirmed
<b>C*06:02:12</b>	<b>Confirmed</b>	C*06:17	Unconfirmed	C*06:63	Unconfirmed	C*06:110	Unconfirmed
C*06:02:13	Unconfirmed	<b>C*06:18</b>	<b>Confirmed</b>	C*06:64	Unconfirmed	C*06:111	Unconfirmed
C*06:02:14	Unconfirmed	C*06:19	Unconfirmed	<b>C*06:65</b>	<b>Confirmed</b>	C*06:112	Unconfirmed
<b>C*06:02:15</b>	<b>Confirmed</b>	C*06:20	Unconfirmed	<b>C*06:66</b>	<b>Confirmed</b>	C*06:113	Unconfirmed
<b>C*06:02:16</b>	<b>Confirmed</b>	C*06:21	Unconfirmed	C*06:67	Unconfirmed	C*06:114	Unconfirmed
C*06:02:17	Unconfirmed	C*06:22	Unconfirmed	C*06:68	Unconfirmed	C*06:115	Unconfirmed
C*06:02:18	Unconfirmed	<b>C*06:23</b>	<b>Confirmed</b>	<b>C*06:69</b>	<b>Confirmed</b>	C*06:116N	Unconfirmed
C*06:02:19	Unconfirmed	<b>C*06:24</b>	<b>Confirmed</b>	<b>C*06:70:01</b>	<b>Confirmed</b>	C*06:117	Unconfirmed
C*06:02:20	Unconfirmed	C*06:25	Unconfirmed	C*06:70:02	Unconfirmed	C*06:118	Unconfirmed
C*06:02:21	Unconfirmed	<b>C*06:26</b>	<b>Confirmed</b>	<b>C*06:71</b>	<b>Confirmed</b>	C*06:119	Unconfirmed
<b>C*06:02:22</b>	<b>Confirmed</b>	<b>C*06:27</b>	<b>Confirmed</b>	C*06:72	Unconfirmed	<b>C*06:120</b>	<b>Confirmed</b>
C*06:02:23	Unconfirmed	<b>C*06:28</b>	<b>Confirmed</b>	C*06:73	Unconfirmed	C*06:121	Unconfirmed
C*06:02:24	Unconfirmed	C*06:29	Unconfirmed	C*06:74Q	Unconfirmed	<b>C*06:122</b>	<b>Confirmed</b>
C*06:02:25	Unconfirmed	<b>C*06:30</b>	<b>Confirmed</b>	C*06:75	Unconfirmed	C*06:123	Unconfirmed
C*06:02:26	Unconfirmed	C*06:31	Unconfirmed	<b>C*06:76:01</b>	<b>Confirmed</b>	<b>C*06:124</b>	<b>Confirmed</b>
C*06:02:27	Unconfirmed	<b>C*06:32</b>	<b>Confirmed</b>	C*06:76:02	Unconfirmed	C*06:125	Unconfirmed
C*06:02:28	Unconfirmed	<b>C*06:33</b>	<b>Confirmed</b>	C*06:77	Unconfirmed	<b>C*06:126</b>	<b>Confirmed</b>
C*06:02:29	Unconfirmed	<b>C*06:34:01</b>	<b>Confirmed</b>	C*06:78	Unconfirmed	<b>C*06:127:01</b>	<b>Confirmed</b>
C*06:02:30	Unconfirmed	C*06:34:02	Unconfirmed	C*06:79N	Unconfirmed	C*06:127:02	Unconfirmed
<b>C*06:02:31</b>	<b>Confirmed</b>	<b>C*06:35</b>	<b>Confirmed</b>	C*06:80	Unconfirmed	C*06:128N	Unconfirmed
<b>C*06:02:32</b>	<b>Confirmed</b>	C*06:36	Unconfirmed	<b>C*06:81</b>	<b>Confirmed</b>	<b>C*06:129</b>	<b>Confirmed</b>
<b>C*06:02:33</b>	<b>Confirmed</b>	<b>C*06:37</b>	<b>Confirmed</b>	C*06:82	Unconfirmed	C*06:130	Unconfirmed
<b>C*06:02:34</b>	<b>Confirmed</b>	<b>C*06:38</b>	<b>Confirmed</b>	C*06:83	Unconfirmed	C*06:131	Unconfirmed
C*06:02:35	Unconfirmed	C*06:39	Unconfirmed	C*06:84	Unconfirmed	<b>C*06:132:01</b>	<b>Confirmed</b>
C*06:02:36	Unconfirmed	C*06:40	Unconfirmed	C*06:85	Unconfirmed	C*06:132:02	Unconfirmed
<b>C*06:02:37</b>	<b>Confirmed</b>	C*06:41	Unconfirmed	<b>C*06:86</b>	<b>Confirmed</b>	<b>C*06:133</b>	<b>Confirmed</b>
C*06:02:38	Unconfirmed	C*06:42:01	Unconfirmed	<b>C*06:87</b>	<b>Confirmed</b>	C*06:134N	Unconfirmed
C*06:02:39	Unconfirmed	C*06:42:02	Unconfirmed	C*06:88	Unconfirmed	C*06:135	Unconfirmed
C*06:02:40	Unconfirmed	<b>C*06:43:01</b>	<b>Confirmed</b>	C*06:89	Unconfirmed	<b>C*06:136</b>	<b>Confirmed</b>
C*06:02:41	Unconfirmed	C*06:43:02	Unconfirmed	C*06:90	Unconfirmed	C*06:137	Unconfirmed
C*06:02:42	Unconfirmed	C*06:44	Unconfirmed	C*06:91	Unconfirmed	<b>C*06:138</b>	<b>Confirmed</b>
C*06:02:43	Unconfirmed	C*06:45	Unconfirmed	C*06:92	Unconfirmed	<b>C*06:139</b>	<b>Confirmed</b>
C*06:02:44	Unconfirmed	C*06:46N	Unconfirmed	<b>C*06:93</b>	<b>Confirmed</b>	<b>C*06:140</b>	<b>Confirmed</b>
C*06:02:45	Unconfirmed	<b>C*06:47</b>	<b>Confirmed</b>	C*06:94	Unconfirmed	C*06:141	Unconfirmed
C*06:03:01	Unconfirmed	C*06:48	Unconfirmed	C*06:95	Unconfirmed	<b>C*06:142</b>	<b>Confirmed</b>
<b>C*06:03:02</b>	<b>Confirmed</b>	<b>C*06:49N</b>	<b>Confirmed</b>	<b>C*06:96</b>	<b>Confirmed</b>	C*06:143	Unconfirmed
<b>C*06:04:01</b>	<b>Confirmed</b>	<b>C*06:50</b>	<b>Confirmed</b>	C*06:97	Unconfirmed	C*06:144	Unconfirmed
<b>C*06:04:02</b>	<b>Confirmed</b>	C*06:51	Unconfirmed	C*06:98	Unconfirmed	C*06:145	Unconfirmed

Lot No.: **5L6**

Lot-specific information

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
C*06:146	Unconfirmed	C*06:156	Unconfirmed	C*06:166	Unconfirmed
C*06:147	Unconfirmed	C*06:157	Unconfirmed	C*06:167	Unconfirmed
<b>C*06:148</b>	<b>Confirmed</b>	<b>C*06:158</b>	<b>Confirmed</b>	C*06:168	Unconfirmed
C*06:149	Unconfirmed	C*06:159	Unconfirmed	C*06:169	Unconfirmed
C*06:150	Unconfirmed	C*06:160	Unconfirmed	C*06:170	Unconfirmed
<b>C*06:151</b>	<b>Confirmed</b>	C*06:161	Unconfirmed	C*06:171N	Unconfirmed
C*06:152N	Unconfirmed	C*06:162	Unconfirmed	C*06:172	Unconfirmed
C*06:153	Unconfirmed	C*06:163	Unconfirmed	C*06:173	Unconfirmed
C*06:154	Unconfirmed	C*06:164	Unconfirmed	C*06:174	Unconfirmed
C*06:155	Unconfirmed	C*06:165	Unconfirmed	C*06:175N	Unconfirmed

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-April-15, release 3.24.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**RESOLUTION IN HOMO- AND HETEROZYGOTES**

Results file with resolution in HLA-C\*06 homo- and heterozygotes is available upon request.

Lot No.: 5L6

Lot-specific information  
**SPECIFICITY TABLE**

**HLA-C\*06 SSP subtyping**

Specificities and sizes of the PCR products of the 62+1 primer mixes used for HLA-C\*06 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-C*06 alleles <sup>3</sup>	Other amplified HLA Class I alleles
1	240 bp	800 bp	*06:02:01:01-06:02:01:45, 06:02:03-06:02:82, 06:04:01-06:16N, 06:18-06:75, 06:78-06:131, 06:133-06:187, 06:189-06:235, 06:237-06:243, 06:245-06:294	*03:39, 03:67, 03:344:01:01-03:344:01:02, 04:42:01-04:42:02, 04:220, 05:43, 08:37, 12:16:01-12:16:02, 12:147, 12:195:01-12:195:03, 12:217, 16:21, 16:80, 17:20 <sup>?</sup>
2	220 bp	800 bp	*06:02:01:01-06:02:01:45, 06:02:03-06:03:02, 06:07-06:13, 06:15-06:34:02, 06:36-06:39, 06:41-06:71, 06:73-06:78, 06:80, 06:82-06:100, 06:102:01-06:117, 06:119-06:122, 06:124-06:126, 06:128N-06:135, 06:137-06:142, 06:145-06:152N, 06:154-06:196, 06:198-06:202, 06:205-06:263N, 06:265-06:270, 06:272-06:294	*01:04, 01:09:01-01:09:02, 02:05:01-02:05:03, 02:17, 04:360, 12:03:01:01-12:07, 12:11-12:13:01:02, 12:15, 12:23, 12:25-12:26, 12:28-12:29, 12:31:01-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:50-12:55, 12:57:01-12:63, 12:65-12:66, 12:70-12:71, 12:75-12:79, 12:81-12:82, 12:87-12:95, 12:97-12:102, 12:107-12:111, 12:113, 12:115-12:116, 12:119-12:122, 12:125, 12:129, 12:131, 12:133, 12:135, 12:138-12:141, 12:143-12:144, 12:147, 12:149-12:150, 12:152, 12:154, 12:156-12:160, 12:163, 12:165, 12:167, 12:170-12:174, 12:176, 12:178, 12:180, 12:182, 12:184-12:187, 12:189-12:192, 12:194-12:195:03, 12:197, 12:199, 12:201-12:203, 12:205-12:206, 12:209-12:211, 12:213, 12:215-12:216, 12:218, 12:220, 12:223, 12:225, 12:227, 12:229-12:230, 12:232N, 12:235, 12:237-12:238, 12:242, 12:244-12:246, 12:248-12:249, 12:253-12:254, 12:256-12:257, 12:259-12:260, 12:262, 12:264-12:267, 12:269, 12:271-12:274:01N, 12:276-12:278, 12:282-12:284, 12:286, 12:288-12:293, 12:295N, 12:297, 12:300-12:302, 12:305-12:306, 14:16, 16:04:01:01-16:04:01:03, 16:04:03-16:04:05, 16:29, 16:33, 16:42, 16:55, 16:61, 16:66, 16:78, 16:82, 16:91, 16:109, 16:124, 16:149-16:150, <b>B*15:510, B*35:475</b>
3	135 bp	1070 bp	*06:03:01, 06:18, 06:132:01-06:132:02	*01:169:02, 02:02:13, 02:02:29, 03:02:01-03:02:09, 03:02:11-03:03:20, 03:03:22-03:03:50, 03:03:52-03:04:14, 03:04:16-03:04:24, 03:04:27-03:11:02, 03:13:01:01-03:17:02, 03:18:02-03:38:02, 03:40:01-03:64:01, 03:65-03:66, 03:67 <sup>w</sup> , 03:68-03:98, 03:100-03:117, 03:119:01-03:136, 03:138-03:143, 03:146-03:155, 03:157-03:165:02, 03:167-03:169Q, 03:171, 03:173-03:181, 03:183-03:194, 03:196-03:230, 03:232-03:247, 03:249-03:263:03, 03:265N-03:277N, 03:278 <sup>w</sup> , 03:279-03:294, 03:295 <sup>w</sup> , 03:296:01-03:323N,



Lot No.: **5L6**

Lot-specific information

				03:325-03:341, 03:343, 03:345-03:453, 03:455-03:458, 03:460-03:478, 03:480-03:503, 03:505-03:517, 07:96:01-07:96:02, 07:272, 07:314:02, 07:326, 07:578, 07:756, 15:02:10, 15:02:17, 15:43, <b>B*46:77</b>
<b>4</b>	250 bp	1070 bp	*06:04:01-06:04:02, 06:118, 06:153, 06:197	*01:22, 01:35, 01:131, 01:160, 05:11, 05:17, 05:27, 05:68, 05:79, 05:115, 05:134, 05:151, 05:184, 08:01:01-08:01:29, 08:03:01-08:04:03, 08:06, 08:08:01-08:11, 08:13-08:14, 08:16:01-08:16:02, 08:20-08:22:01:02, 08:24, 08:26N, 08:36N, 08:38-08:42, 08:44, 08:46, 08:50, 08:54, 08:56-08:61, 08:65-08:66, 08:72:01-08:72:02, 08:78-08:89N, 08:91, 08:93, 08:95-08:97, 08:99, 08:101-08:102, 08:104-08:106, 08:109, 08:113, 08:117, 08:119, 08:121N-08:122, 08:124, 08:127N-08:131, 08:133, 08:135-08:139, 08:141Q, 08:143-08:145, 08:147-08:148, 08:153-08:155, 08:157, 08:162-08:165, 08:168, 08:173N-08:178, 08:182, 08:186-08:190, 08:192-08:194, 08:196-08:197, 08:199, 08:203-08:205, 08:208N-08:210, 12:14:01-12:14:02, 12:18:01-12:18:02, 12:20, 12:83, 12:169, 12:175, 12:181, 14:06, 14:15, 14:53, 14:77, 14:87, 15:02:01-15:02:43, 15:02:45-15:05:07, 15:05:09-15:07:01:02, 15:09:01-15:13:01:02, 15:15-15:19, 15:21-15:24, 15:26-15:50, 15:52:01-15:73, 15:76-15:83, 15:85-15:101, 15:103-15:142, 15:144-15:147, 15:149-15:213N, 15:215-15:217, 16:35, 16:40, 16:48, 16:110, 17:01:01-17:16:02, 17:18-17:51:02
<b>5</b>	160 bp	<b>800 bp</b>	*06:05, 06:67, 06:103	*02:94, 04:129, 05:01:01-05:01:27, 05:01:28 <sup>w</sup> , 05:01:29-05:01:51, 05:03-05:28, 05:30-05:47, 05:49-05:91N, 05:93-05:128N, 05:130-05:154N, 05:156-05:189, 05:191-05:194, 05:196, 05:198-05:232, 08:10, 12:21, 12:33, 15:107, 15:178, 17:05
	220 bp		*06:18, 06:23, 06:179	*01:04, 01:09:01-01:09:02, 02:21, 12:178
<b>6</b>	250 bp	1070 bp	*06:05-06:06, 06:204, 06:271	*01:02:01-01:01:03, 01:05-01:07:01, 01:08, 01:10-01:20, 01:23-01:34, 01:36:01-01:130, 01:132-01:159, 01:161-01:168, 01:169:02-01:191, 04:110 <sup>?</sup> , 05:01:01-05:01:51, 05:03-05:07N, 05:09:01-05:10, 05:12-05:16, 05:18:01-05:26, 05:28-05:50, 05:53-05:61, 05:63-05:67, 05:69, 05:71-05:78:02, 05:80-05:88, 05:90-05:105, 05:107-05:111, 05:113N-05:114, 05:116-05:133, 05:135-05:145, 05:147-05:150, 05:152-05:162, 05:164-05:183, 05:185-05:232, 08:02:01-08:02:29, 08:05, 08:07, 08:12:01-08:12:01:02, 08:15:01-08:15:02, 08:17-08:19:02, 08:23, 08:25, 08:28, 08:30, 08:32-08:35, 08:37, 08:43, 08:45, 08:47-08:49, 08:51-08:53, 08:55N, 08:62:01-08:63, 08:67-08:71, 08:73-08:77, 08:90, 08:92, 08:94, 08:100, 08:103, 08:107-08:108, 08:110-08:112, 08:114-08:116, 08:118, 08:120, 08:123, 08:125-08:126, 08:132, 08:134, 08:140, 08:146, 08:149-08:152, 08:156, 08:158-08:159, 08:161N, 08:166-08:167, 08:169-08:172, 08:179-08:181N,

Lot No.: **5L6**

Lot-specific information

				08:183-08:185, 08:191, 08:195, 08:198, 08:200-08:202, 08:206-08:207, 12:09, 12:24, 12:85, 12:233, 14:02:01:01-14:02:31, 14:02:33-14:05, 14:07N-14:14, 14:17-14:52, 14:54-14:62, 14:64-14:76, 14:78-14:86, 14:88-14:89, 14:91-14:104, 14:106-14:117N, 15:08:01-15:08:02, 15:102, 15:143, 15:148, 16:53, 16:68, 16:88, 17:17, 18:01:01:01-18:02:05, 18:04-18:14
	290 bp		*06:50	*12:53
<b>7<sup>4</sup></b>	110 bp	1070 bp	*06:07	*04:353
	185 bp		*06:19	
	235 bp		*06:33, 06:104	
<b>8</b>	240 bp	1070 bp	*06:08	*01:10, 02:05:01-02:05:03, 02:17, 12:119, 14:25, 16:29, 16:50, 17:21, <b>B*07:239, B*14:46, B*40:243</b>
<b>9</b>	165 bp	1070 bp	*06:09:01-06:09:02, 06:144	*02:22, 02:118, 04:94:01-04:94:02, 05:08, 05:52, 05:89, 05:106:01-05:106:02, 08:27, 08:29, 08:31, 08:160, 12:31:01-12:31:02, 12:144, 18:03, <b>B*15:137, B*15:488, B*37:66, B*50:47</b>
	210 bp		*06:23, 06:179	*01:04, 01:09:01-01:09:02, 12:178
	435 bp		*06:17	*04:397, 07:07, 07:09, 07:76:01-07:76:02, 07:315, 07:328, 07:406, 07:559, 07:598, 07:656, 18:01:01:01-18:14
<b>10</b>	190 bp	<b>800 bp</b>	*06:10, 06:22	*07:107, 07:224, 12:293, 16:31, <b>B*15:193, B*35:283</b>
<b>11</b>	130 bp	1070 bp	*06:11, 06:122 <sup>w</sup> , 06:124 <sup>w</sup> , 06:147, 06:217, 06:248, 06:252	*07:01:13, 07:04:01:01-07:04:11, 07:04:13-07:04:20, 07:11-07:12, 07:45, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:272, 07:302, 07:323-07:324, 07:329N, 07:338, 07:354-07:355, 07:358, 07:364-07:365, 07:378, 07:394-07:395, 07:420, 07:426, 07:428, 07:447, 07:459, 07:466-07:467, 07:480, 07:487, 07:501, 07:523, 07:534-07:535, 07:552, 07:562-07:563, 07:569, 07:585-07:586, 07:600:01N-07:600:02N, 07:622, 07:626, 07:651, 07:655, 07:656 <sup>w</sup> , 07:664, 07:672N, 07:674, 07:693, 07:742, 07:751N, 07:780, 07:797N, 07:831, 07:838-07:839N, 12:02:11, 12:03:09, 16:01:16, <b>B*15:434</b>
	185 bp		*06:22	*07:107, 07:224, 12:293, 16:31, <b>B*15:193, B*35:283</b>
<b>12</b>	205 bp	1070 bp	*06:12	
<b>13</b>	155 bp	1070 bp	*06:13	
	210 bp		*06:59	
<b>14<sup>7</sup></b>	225 bp	1070 bp	*06:55	
	305 bp		*06:14, 06:143	*03:32, 03:45, 03:136, 03:297, 04:80, 04:100, 04:110 <sup>w</sup> , 04:178, 04:370, 07:10 <sup>w</sup> , 07:43:01, 07:196, 07:568, 15:25, 15:62, 15:169, <b>B*15:357, B*35:178, B*35:282, B*35:316</b>
<b>15</b>	135 bp	<b>800 bp</b>	*06:116N	
	360 bp		*06:15	*03:428, 07:709
<b>16</b>	235 bp	1070 bp	*06:16N	
	340 bp		*06:21	*02:125, 15:91
<b>17<sup>5</sup></b>	220 bp	<b>800 bp</b>	*06:24, 06:59	*14:91, 16:93
<b>18</b>	225 bp	1070 bp	*06:26, 06:104	

Lot No.: **5L6**

Lot-specific information

19 <sup>4,6</sup>	85 bp	800 bp	*06:28	*02:14:01-02:14:02, 02:164, 03:67, 04:42:01-04:42:02, 05:43, 07:20:01-07:20:02, 07:73:01-07:73:02, 07:172:01-07:172:02, 07:390, 08:37, 12:195:01-12:195:03, 12:217, 15:23:01-15:23:02, 15:138, 15:158, 16:21, 17:20, 18:04, <b>B*08:56:01-08:56:03, B*08:180, B*15:142, B*35:218, B*35:256, B*51:68, B*57:49</b>
	160 bp		*06:32	
	245 bp		*06:122, 06:124	*07:559, 07:656
20 <sup>4,6</sup>	115 bp	1070 bp	*06:29	*07:134
	235 bp		*06:05 <sup>w</sup> , 06:44 <sup>w</sup> , 06:124, 06:138 <sup>w</sup> , 06:198 <sup>w</sup> , 06:217, 06:248	*02:14:01 <sup>w</sup> -02:14:02 <sup>w</sup> , 02:107 <sup>w</sup> , 02:164 <sup>w</sup> , 03:39, 03:67, 03:344:01:01-03:344:01:02, 05:43 <sup>w</sup> , 07:39-07:40, 07:177, 07:210 <sup>w</sup> , 07:238 <sup>w</sup> , 07:328 <sup>w</sup> , 07:335, 07:563, 08:37, 15:23:01 <sup>w</sup> -15:23:02 <sup>w</sup> , 15:63 <sup>w</sup> , 15:138 <sup>w</sup> , 15:158 <sup>w</sup> , 16:21, 16:80, <b>B*08:15</b>
	275 bp		*06:27	*16:47, 16:128
21 <sup>6</sup>	190 bp	1070 bp	*06:36, 06:87	*02:113, 02:159, 02:161, 12:45, 12:56, 12:166, 16:61, <b>A*02:817, A*68:76:01-68:76:02</b>
	215 bp		*06:72	
	380 bp		*06:25	*04:81
22 <sup>6</sup>	165 bp	1070 bp	*06:30, 06:86, 06:171:01:01N-06:171:01:02N, 06:198, 06:204, 06:210, 06:217	*02:02:13, 02:02:29, 07:181, 07:328, 12:02:11, 12:03:09, 16:01:16, <b>B*15:434</b>
23	210 bp	1070 bp	*06:31, 06:79N	*12:176, 14:02:32, 16:04:01:01-16:04:01:03, 16:04:03-16:04:05, 16:29, 16:33, 16:42, 16:55, 16:61, 16:66, 16:78, 16:82, 16:91, 16:109, 16:124, 16:149-16:150, <b>B*58:02:02</b>
24	160 bp	1070 bp	*06:09:01-06:09:02, 06:34:01-06:34:02, 06:144, 06:168	*02:22, 02:47, 02:111, 04:94:01-04:94:02, 05:08, 05:52, 05:89, 05:106:01-05:106:02, 07:447, 08:27, 08:29, 08:31, 08:160, 12:31:01-12:31:02, 12:144, 12:298, 18:03, <b>B*13:31, B*13:41, B*13:131, B*15:58, B*15:73:01:01-15:73:01:02, B*15:137, B*15:303, B*15:486, B*15:488, B*35:413, B*37:66, B*39:36, B*46:61, B*50:47, B*54:33, B*54:40, B*55:21, B*56:43</b>
	210 bp		*06:35	<b>B*37:66</b>
25 <sup>4</sup>	85 bp	1070 bp	*06:38	
	190 bp		*06:118	*01:60, 07:31:01-07:31:02, 07:177, 07:364, 07:514, 12:176, 14:17, 17:21
26 <sup>4</sup>	120 bp	1070 bp	*06:39, 06:128N	*02:100, 04:205N, 04:288, 15:115N, 15:150
	225 bp		*06:146	
27	190 bp	1070 bp	*06:42:01-06:42:02	*14:29
	225 bp		*06:40	*14:63, <b>B*39:79</b>
28 <sup>4</sup>	90 bp	1070 bp	*06:41	*12:32
	215 bp		*06:47, 06:123	*02:57, 07:447, 12:11, <b>B*15:554</b>
29 <sup>4</sup>	125 bp	1070 bp	*06:152N	<b>A*66:39N, B*15:528N</b>
	170 bp		*06:43:01-06:43:02, 06:107, 06:179	*01:09:01-01:09:02, 02:19, 02:119, 03:21, 03:80:01-03:80:02, 03:142, 03:287:01-03:287:02, 03:413, 03:512, 12:222, 12:235, <b>A*26:79, A*68:114, B*15:207, B*15:349:01-15:349:02</b>
30 <sup>4</sup>	210 bp		*06:47	*12:11
	100 bp	1070 bp	*06:44, 06:252	*07:01:13
	160 bp		*06:126, 06:171:01:01N-06:171:01:02N	

Lot No.: **5L6**

Lot-specific information

<b>31<sup>4,5</sup></b>	110 bp 155 bp	1070 bp	*06:128N *06:45	*04:205N, 15:115N *02:85
<b>32<sup>4</sup></b>	85 bp 195 bp	1070 bp	*06:71 *06:19, 06:66	*02:144
<b>33<sup>4</sup></b>	105 bp 240 bp	1070 bp	*06:60 *06:69, 06:93, 06:122, 06:124	*07:427, <b>B*08:138</b> *07:559, 07:571, 07:656
<b>34</b>	175 bp 275 bp	1070 bp	*06:74Q *06:20	*15:32Q *01:32:01-01:32:02, 02:56, 03:102, 03:263:01- 03:263:02, 03:514, 04:180:01, 05:217, 07:81, 07:168, 07:450, 08:123, 08:139, 12:50, 14:82, 14:92, 15:126, 16:98, 16:102, 16:110
<b>35</b>	210 bp 235 bp 380 bp	1070 bp	*06:134N *06:65, 06:93 *06:46N	*07:571 *02:150N
<b>36<sup>4</sup></b>	120 bp 195 bp	1070 bp	*06:57 *06:87	*02:159, 02:161, 12:45, 12:166, 16:61, <b>A*02:817,</b> <b>A*68:76:01-68:76:02</b>
<b>37<sup>4</sup></b>	220 bp 115 bp 210 bp	1070 bp	*06:58, 06:81 *06:148, 06:151 *06:49N, 06:101	*02:37, 12:251, <b>B*15:417</b> <b>B*15:432</b> *02:182, 04:94:01-04:94:02, 12:10:01-12:10:02, 18:03, <b>B*15:27:01-15:27:03, B*15:109,</b> <b>B*15:327, B*15:344, B*15:398</b>
<b>38</b>	130 bp 225 bp 470 bp	1070 bp	*06:70:01-06:70:02, 06:120, 06:132:01 *06:211:01:01N- 06:211:01:02N *06:73	*02:02:13, 02:02:29, 07:562, 18:12 *02:170, 03:171, 03:211:01, 04:144, 05:93, 08:20, 08:40, 12:109
<b>39<sup>6</sup></b>	270 bp	1070 bp	*06:96, 06:197	*01:31, 01:35, 01:107, 01:131, 02:58, 04:08, 04:34, 04:85, 04:147, 04:212, 05:27, 05:39, 05:151, 05:184, 08:41, 08:115, 08:138, 08:182, 12:83, 12:106, 12:122, 12:158, 14:20, 14:38, 15:15, 15:77, 15:159, 15:195, 16:149, 17:07, 18:08, <b>B*58:02:01:01</b>
<b>40</b>	140 bp 260 bp	1070 bp	*06:133 *06:54, 06:220N	*16:52
<b>41</b>	150 bp	1070 bp	*06:03:01-06:03:02, 06:76:01, 06:120, 06:132:01	*02:02:13, 02:02:29, 12:02:11, 12:03:09, 12:03:26, 16:01:16, 18:09, 18:12, <b>B*13:132,</b> <b>B*15:434, B*51:39</b>
<b>42<sup>6</sup></b>	165 bp	1070 bp	*06:53:01-06:53:02, 06:86, 06:126	
<b>43</b>	190 bp	1070 bp	*06:28, 06:76:01- 06:76:02, 06:132:01- 06:132:02	*02:12, 02:49, 02:55:01-02:55:02, 02:115, 03:15, 03:27, 03:38:01-03:38:02, 03:69, 03:130, 03:136, 03:163, 03:246, 03:274, 03:297, 03:431, 03:461, 04:01:01:01-04:01:01:29, 04:01:01:31-04:01:28, 04:01:30-04:01:120, 04:03:01:01-04:03:01:02, 04:03:03-04:09N, 04:12 <sup>w</sup> , 04:13:01:01-04:20, 04:23-04:35:02, 04:37-04:54:02, 04:56-04:139, 04:141-04:152, 04:154-04:165, 04:167-04:168, 04:170N-04:191N, 04:193, 04:195-04:209, 04:211-04:213, 04:216-04:219, 04:221-04:226, 04:228-04:248, 04:250-04:255N, 04:257-04:277, 04:279N <sup>w</sup> , 04:280-04:298, 04:300N-04:346, 04:348-04:413, 05:42, 05:46:01:01-05:46:01:02, 07:20:01-07:20:02, 07:64, 07:73:01-07:73:02,

Lot No.: **5L6**

Lot-specific information

				07:92, 07:96:01-07:96:02, 07:172:01-07:172:02, 07:390, 07:578, 07:583, 07:723, 08:05, 08:21, 08:25, 08:137, 12:02:01-12:04:02:02, 12:06-12:08, 12:10:01-12:15, 12:17-12:20, 12:22-12:32, 12:34-12:48, 12:50-12:70, 12:72-12:97, 12:99:01-12:146, 12:148N-12:187, 12:189-12:226, 12:228-12:278, 12:280-12:298, 12:300, 12:302-12:308, 14:04, 14:49, 14:64, 14:73, 14:77, 15:03, 15:16, 15:25, 16:15:01-16:15:02, 16:25, 16:64, 17:01:01:02-17:01:07, 17:01:09-17:03:02, 17:04-17:26, 17:27N <sup>w</sup> , 17:28-17:39, 17:42-17:51:02, 18:04, <b>A*25:55</b>
<b>44<sup>4</sup></b>	120 bp	1070 bp	*06:77	*03:278, 03:504, 07:714, 07:724, 16:86, <b>A*11:47, A*11:221, A*26:89, B*18:01:20, B*18:72:02, B*37:01:04, B*40:94, B*54:02</b>
	215 bp		*06:100	
<b>45</b>	375 bp	1070 bp	*06:101, 06:127:01:01- 06:127:02, 06:136, 06:144, 06:264	*01:05, 01:21, 01:36:01-01:36:02, 01:55, 01:79:01-01:79:02, 01:120, 02:02:01-02:02:03, 02:02:06-02:02:08, 02:02:10-02:02:30, 02:02:32-02:02:48, 02:02:50-02:04, 02:06:01-02:16:02, 02:18-02:36:02, 02:38:01N-02:40:02, 02:42-02:56, 02:58-02:61:02, 02:63-02:73, 02:75-02:80, 02:82-02:122, 02:124-02:189, 03:05, 03:13:01:01-03:13:02, 03:25, 03:27, 03:35:01-03:35:02:02, 03:135, 03:167, 03:178, 03:198, 03:267, 03:292, 03:296:01-03:296:02, 03:335, 03:386, 03:407, 03:474, 03:482, 03:494, 04:01:01:01-04:01:01:29, 04:01:01:31-04:01:23, 04:01:25-04:01:120, 04:03:01:01-04:20, 04:23-04:36, 04:38-04:39, 04:41-04:79, 04:81-04:99, 04:101-04:109, 04:111-04:116, 04:118-04:177, 04:179-04:223:02, 04:225N-04:229, 04:231, 04:233N-04:241, 04:243-04:262, 04:264-04:341, 04:343-04:359, 04:361-04:369N, 04:371N-04:385N, 04:387-04:407, 04:409-04:413, 05:01:01:01-05:01:20, 05:01:22-05:01:51, 05:03-05:06, 05:08-05:09:03, 05:11-05:15, 05:17-05:30, 05:32-05:84, 05:86-05:95, 05:97-05:103:02, 05:105-05:106:02, 05:108-05:147, 05:149-05:151, 05:153N-05:174, 05:176-05:213N, 05:215-05:232, 07:01:01:01-07:01:02:08, 07:01:04-07:01:10, 07:01:12-07:01:27, 07:01:29-07:02:97, 07:02:99-07:03, 07:05-07:06:01:08, 07:06:03-07:09, 07:13:01:01-07:30, 07:32N-07:33N, 07:35-07:42, 07:44, 07:46-07:62, 07:64-07:100, 07:102-07:138, 07:140-07:141:02, 07:143-07:176, 07:178-07:180, 07:182-07:183, 07:185-07:194, 07:197-07:271, 07:273-07:294, 07:296-07:301, 07:303-07:322, 07:325-07:327, 07:330:01-07:331, 07:333-07:335, 07:337, 07:339-07:345, 07:347N-07:353, 07:356, 07:359-07:360, 07:362-07:363, 07:368:01-07:377, 07:379-07:393N, 07:396-07:402, 07:404-07:405, 07:407-07:419, 07:421-07:425, 07:427, 07:429-07:443, 07:445-07:446, 07:448-07:458, 07:460-07:462, 07:464-07:465, 07:468-07:479, 07:481-07:484N, 07:486, 07:488-07:500, 07:502-07:510, 07:512-07:513Q, 07:515-07:522, 07:524-07:533, 07:536-07:551N, 07:553-07:561, 07:564-07:567,

Lot No.: **5L6**

Lot-specific information

				07:570-07:584, 07:588, 07:590-07:599, 07:601-07:608, 07:610, 07:612-07:621, 07:623-07:625, 07:627-07:650:02, 07:652-07:654, 07:657-07:663Q, 07:665-07:671, 07:673, 07:675N-07:692, 07:694-07:697Q, 07:699-07:725, 07:727, 07:729:01:01-07:730, 07:732-07:741, 07:743N, 07:745N, 07:748-07:750N, 07:752N-07:757, 07:759-07:775, 07:777-07:779, 07:781-07:796N, 07:798-07:830, 07:832-07:837, 07:840N-07:851, 08:01:01:01-08:01:10, 08:01:12-08:11, 08:13-08:33:04, 08:35-08:43, 08:45-08:60, 08:62:01-08:63, 08:65-08:81, 08:83-08:125, 08:127N-08:170, 08:172-08:179, 08:181N-08:208N, 08:210, 12:02:01-12:02:11, 12:02:13-12:02:37, 12:08, 12:10:01-12:10:02, 12:14:01-12:14:02, 12:16:01-12:18:02, 12:21-12:22, 12:27, 12:30, 12:36, 12:40-12:41, 12:49, 12:56, 12:64, 12:67-12:69, 12:72-12:74, 12:80N, 12:83-12:86, 12:96, 12:103-12:106, 12:112, 12:114, 12:117-12:118, 12:123-12:124, 12:126-12:128, 12:130, 12:132, 12:136-12:137, 12:142, 12:145-12:146, 12:148N, 12:151, 12:155Q, 12:161-12:162, 12:164, 12:166, 12:168-12:169, 12:177, 12:179, 12:181, 12:188, 12:193, 12:196, 12:198, 12:204, 12:207-12:208, 12:212, 12:214, 12:217, 12:219N, 12:221-12:222, 12:224, 12:226, 12:228, 12:231, 12:233-12:234, 12:236N, 12:239-12:241, 12:243, 12:247, 12:250, 12:252, 12:255, 12:261, 12:263, 12:268, 12:274:02N-12:275, 12:279-12:281, 12:285, 12:287, 12:294, 12:296, 12:298, 12:303-12:304, 12:307-12:308, 14:09, 14:28:02, 15:22, 15:65, 15:72, 15:190, 16:06-16:07:02, 16:117, 17:16:01-17:16:02, 18:01:01:01-18:14
46 <sup>4</sup>	95 bp	1070 bp	*06:30, 06:204, 06:210	*01:17, 01:21, 01:128, 01:152, 01:157, 02:12, 02:55:01-02:55:02, 03:27, 03:38:01-03:38:02, 03:130, 03:163, 03:246, 03:431, 04:33, 04:107, 04:172, 04:231, 05:46:01:01-05:46:01:02, 07:07, 07:16, 07:51, 07:181, 07:367, 07:598, 07:723, 08:05, 08:21, 08:25, 12:02:01-12:04:02:02, 12:06-12:08, 12:10:01-12:20, 12:22-12:27, 12:29-12:32, 12:34-12:48, 12:50-12:57:02, 12:59-12:62, 12:64-12:97, 12:99:01-12:107, 12:109-12:131, 12:133-12:134, 12:136-12:145, 12:147-12:187, 12:189-12:251, 12:253-12:286, 12:288-12:298, 12:300, 12:302-12:308, 14:04, 14:73, 14:77, 15:03, 15:16, 16:15:01-16:15:02, 16:25, 17:01:01:02-17:01:14, 17:02-17:10, 17:12-17:14, 17:16:01-17:25, 17:27N-17:39, 17:41-17:51:02, <b>B*07:13, B*67:02:01:01-67:02:01:02</b>
47 <sup>6</sup>	220 bp	1070 bp	*06:83, 06:146	
48 <sup>6</sup>	370 bp	1070 bp	*06:106:01-06:106:02	*02:61:01, 03:07:01:01-03:07:02, 03:15, 03:45, 03:130, 03:140:01:01-03:140:01:02, 03:163, 03:243, 03:268, 03:297, 03:461, 04:80, 04:100, 05:05:01-05:05:02, 05:135, 05:147-05:148, 15:26, 15:69, 17:29
49	195 bp 250 bp	1070 bp	*06:175N *06:220N	



Lot No.: **5L6**

Lot-specific information

	280 bp		*06:129	*05:16, 05:85, 05:107, 07:364, 08:12:01:01-08:12:01:02, <b>B*14:32</b>
<b>50</b>	160 bp	1070 bp	*06:158	
	195 bp		*06:175N	
<b>51</b>	235 bp	1070 bp	*06:05, 06:44, 06:124 <sup>w</sup> , 06:138, 06:198, 06:217 <sup>w</sup> , 06:248 <sup>w</sup>	*02:14:01-02:14:02, 02:107, 02:164, 03:39 <sup>w</sup> , 03:67 <sup>w</sup> , 03:344:01:01 <sup>w</sup> -03:344:01:02 <sup>w</sup> , 05:43, 07:39 <sup>w</sup> -07:40 <sup>w</sup> , 07:177 <sup>w</sup> , 07:210, 07:238, 07:328, 07:335 <sup>w</sup> , 07:563 <sup>w</sup> , 08:37 <sup>w</sup> , 15:23:01-15:23:02, 15:63, 15:138, 15:158, 16:21 <sup>w</sup> , 16:80 <sup>w</sup> , <b>B*08:15<sup>w</sup>, B*08:229</b>
<b>52<sup>4</sup></b>	120 bp	1070 bp	*06:91, 06:151	*02:11, <b>B*15:432</b>
	210 bp		*06:47, 06:136, 06:142	*02:17, 02:77, 07:138, 12:11, 12:118, 12:156, 14:16, <b>B*15:32:01-15:32:02, B*15:299</b>
<b>53</b>	130 bp	1070 bp	*06:91, 06:140, 06:152N	*02:11, <b>A*66:39N, B*15:528N</b>
<b>54<sup>4</sup></b>	85 bp	1070 bp	*06:139	
<b>55<sup>4</sup></b>	80 bp	1070 bp	*06:02:01:01-06:02:01:45, 06:02:03-06:10, 06:12-06:29, 06:31-06:52, 06:54-06:60, 06:62-06:64, 06:66-06:68, 06:70:01-06:92, 06:94-06:121, 06:123, 06:125-06:146, 06:148-06:182, 06:184-06:197, 06:199-06:203, 06:205-06:209, 06:211:01:01N-06:216, 06:218-06:234, 06:236-06:246, 06:249-06:251, 06:253-06:292, 06:294	*02:49, 02:75, 03:15, 03:45, 03:297, 04:01:01:01-04:01:01:29, 04:01:01:31-04:01:51, 04:01:53-04:01:120, 04:03:01:01-04:03:01:02, 04:03:03-04:10, 04:13:01:01-04:20, 04:23-04:26, 04:28, 04:30-04:32, 04:34-04:35:02, 04:37-04:51, 04:53-04:54:02, 04:56-04:106, 04:108-04:115N, 04:117-04:168, 04:170N-04:171, 04:173N-04:213, 04:215N-04:226, 04:228-04:230, 04:232-04:277, 04:279N-04:282, 04:284-04:404, 04:406-04:413, 05:25, 05:42, 07:09, 07:49, 07:76:01-07:76:02, 07:210, 07:238, 07:247, 07:315, 07:403, 07:406, 12:146, 14:49, 14:64, 15:62, 15:169, 16:46, 17:11, 18:01:01:01-18:14
<b>56<sup>4</sup></b>	100 bp	<b>800 bp</b>		*02:162, 07:505, <b>B*58:23</b>
<b>57<sup>4</sup></b>	110 bp	1070 bp	*06:90	*01:108, 16:28, 16:156
	265 bp		*06:208N	
<b>58</b>	255 bp	1070 bp	*06:200Q, 06:208N	
<b>59</b>	245 bp	1070 bp	*06:215N	
<b>60<sup>4</sup></b>	90 bp	1070 bp	*06:134N	*04:225N, 15:95N
<b>61</b>	160 bp	1070 bp	*06:115	*04:119
<b>62</b>	225 bp	1070 bp	*06:211:01:01N-06:211:01:02N	
	260 bp		*06:111	*01:183, 03:354, 05:108
<b>63<sup>8</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-C\*06 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.

**Lot No.: 5L6**

**Lot-specific information**

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>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 17 and 31 have tendencies to give rise to primer oligomer formation.

<sup>6</sup>Primer mixes 19, 20, 21, 22, 39, 42, 47 and 48 may have tendencies of unspecific amplification.

<sup>7</sup>Primer mix 14 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C\*06 resolution primer mixes in the C\*03 alleles.

<sup>8</sup>Primer mix 63 contains a negative control, which will amplify a majority 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 200 base pairs.

Abbreviations

'w', might be weakly amplified.

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



Lot No.: 5L6

Lot-specific information  
**PRIMER SPECIFICATION**

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	240	220	135	250	160	250	110	240	165	190	130	205
PCR product					220	290	185		210		185	
							235		435			
Length of int.	800	800	1070	1070	800	1070	1070	1070	1070	800	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	28	361	105	2 <sup>nd</sup> I	113	2 <sup>nd</sup> I	107	361	47	142	213	529
	5'-TCA 3'	5'-AgT 3'	5'-gCT 3'	5'-CCA 3'	5'-CCA 3'	5'-CCA 3'	5'-CgA 3'	5'-AgT 3'	5'-Agg 3'	5'-TCC 3'	5'-CCC 3'	5'-AgA 3'
		361	113		176		109		368	419	419	
		5'-AgT 3'	5'-CCA 3'		5'-gCA 3'		5'-TgA 3'		5'-gTg 3'	5'-gTC 3'	5'-gTC 3'	
		361			368		157		412			
		5'-AAT 3'			5'-gTg 3'		5'-TgA 3'		5'-ATA 3'			
					420		232					
					5'-TAT 3'		5'-AgA 3'					
3'-primer(s) <sup>3</sup>	97	538	201	539	302	538	302	559	312	302	302	3 <sup>rd</sup> I
	5'-gTC 3'	5'-CCA 3'	5'-CTC 3'	5'-TCA 3'	5'-ggT 3'	5'-CCg 3'	5'-ggT 3'	5'-CTC 3'	5'-AgT 3'	5'-ggT 3'	5'-ggC 3'	5'-CTC 3'
					538	578			538	565	565	
					5'-CCA 3'	5'-TgT 3'			5'-CCA 3'	5'-CAT 3'	5'-CAT 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.	155	225	135	235	220	225	85	115	190	165	210	160
PCR product	210	305	360	340			160	235	215			210
							245	275	380			
Length of int.	1070	1070	800	1070	800	1070	800	1070	1070	1070	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	361	341	376	397	361	109	97	97	28	213	361	368
	5'-AgT 3'	5'-ggA 3'	5'-gCT 3'	5'-gCT 3'	5'-AgT 3'	5'-TgA 3'	5'-TCg 3'	5'-TCg 3'	5'-TCA 3'	5'-CCC 3'	5'-AgT 3'	5'-gTC 3'
		894	601	501		122		361	362			419
		5'-TgC 3'	5'-Agg 3'	5'-..C 3'		5'-CCT 3'		5'-AgT 3'	5'-ggT 3'			5'-gTT 3'
									385			419
									5'-ggT 3'			5'-gTA 3'
									388			420
									5'-CCA 3'			5'-TAT 3'
3'-primer(s) <sup>3</sup>												
	475	353	3 <sup>rd</sup> I	3 <sup>rd</sup> I	532	302	142	172	239	327	527	538
	5'-ggT 3'	5'-TgA 3'	5'-CTC 3'	5'-CTC 3'	5'-CTg 3'	5'-ggT 3'	5'-TgC 3'	5'-CAT 3'	5'-gCT 3'	5'-TTT 3'	5'-CCg 3'	5'-CCA 3'
	532	353			547		214	289	538	339	540	
	5'-CTg 3'	5'-TgA 3'			5'-gTg 3'		5'-CCA 3'	5'-AgT 3'	5'-CCA 3'	5'-TCg 3'	5'-CTT 3'	
		956					302	595		341		
		5'-CAg 3'					5'-ggC 3'	5'-CCA 3'		5'-Cgg 3'		
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Lot No.: 5L6

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	85	120	190	90	125	100	110	85	105	175	210	120
PCR product	190	225	225	215	170	160	155	195	240	275	235	195
					210						380	220
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	361	211	361	355	368	213	187	157	97	463	97	359
	5'-AgT 3'	5'-AgT 3'	5'-AgT 3'	5'-CCT 3'	5'-gTC 3'	5'-CCC 3'	5'-gCT 3'	5'-TgA 3'	5'-TCg 3'	5'-TgA 3'	5'-TCg 3'	5'-CCg 3'
		232		368	406		232	257		562	742	366
		5'-AgT 3'		5'-gTC 3'	5'-gCC 3'		5'-AgT 3'	5'-CCC 3'		5'-Cgg 3'	5'-ACT 3'	5'-ATA 3'
		3 <sup>rd</sup> I		490	406			361				385
		5'-Cgg 3'		5'-CgT 3'	5'-gCA 3'			5'-AgT 3'				5'-ggT 3'
					419							458
					5'-gTA 3'							5'-ggg 3'
					454							
					5'-ACT 3'							
3'-primer(s) <sup>3</sup>	404	302	511	538	538	270	302	302	160	3 <sup>rd</sup> I	265	538
	5'-CAA 3'	5'-ggT 3'	5'-CCg 3'	5'-CCA 3'	5'-CCA 3'	5'-TAG 3'	5'-ggT 3'	5'-ggT 3'	5'-gTg 3'	5'-CTC 3'	5'-CTA 3'	5'-CCA 3'
	512	776	511			327		523	295		288	
	5'-CCA 3'	5'-CTC 3'	5'-CCT 3'			5'-TTT 3'		5'-ACA 3'	5'-TCC 3'		5'-gCA 3'	
			544			337			299		295	
			5'-ggT 3'			5'-CTT 3'			5'-TCT 3'		5'-TCC 3'	
									302		956	
									5'-ggC 3'		5'-CAg 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.	115	130	270	140	150	165	190	120	375	95	220	370
PCR product	210	225		260				215				
		470										
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	368	112	2 <sup>nd</sup> I	361	97	213	142	97	361	289	56	302
	5'-gTT 3'	5'-CCT 3'	5'-CCA 3'	5'-AgT 3'	5'-TCT 3'	5'-CCC 3'	5'-TCg 3'	5'-TCC 3'	5'-AgA 3'	5'-Agg 3'	5'-CCA 3'	5'-gAA 3'
	375	134			112			671			3 <sup>rd</sup> I	
	5'-TgA 3'	5'-CCA 3'			5'-CCT 3'			5'-CAA 3'			5'-Cgg 3'	
	464	652										
	5'-gCC 3'	5'-CCA 3'										
	466	894										
	5'-gCC 3'	5'-TgA 3'										
3'-primer(s) <sup>3</sup>	538	213	560	461	213	337	289	175	3 <sup>rd</sup> I	341	97	379
	5'-CCA 3'	5'-Cgg 3'	5'-ACA 3'	5'-gCT 3'	5'-Cgg 3'	5'-CTT 3'	5'-AgC 3'	5'-CCg 3'	5'-CTC 3'	5'-Cgg 3'	5'-gTC 3'	5'-CAC 3'
		956		571		339	289	846			776	
		5'-CAg 3'		5'-CCA 3'		5'-TCg 3'	5'-AgC 3'	5'-CAC 3'			5'-CTC 3'	
				594		341						
				5'-CCC 3'		5'-ggT 3'						
						343						
						5'-T 3'						
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

Lot No.: **5L6**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60	61	62
Length of spec.	195	160	235	120	130	85	80	100	110	255	245	90	160	225
PCR product	250	195		210					265					260
	280													
Length of int.	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070
pos. control <sup>1</sup>														
5'-primer(s) <sup>2</sup>	361	361	97	368	449	376	302	419	361	361	361	265	194	862
	5'-AgT 3'	5'-AgT 3'	5'-TCg 3'	5'-gTC 3'	5'-CCC 3'	5'-gCA 3'	5'-gAA 3'	5'-gTC 3'	5'-AgT 3'	5'-AgT 3'	5'-AgT 3'	5'-CAT 3'	5'-Cgg 3'	5'-ACA 3'
				368	449		302							894
				5'-gTT 3'	5'-CCA 3'		5'-AAA 3'							5'-TgA 3'
				449	454									
				5'-CCA 3'	5'-ACT 3'									
				466										
				5'-gCC 3'										
3'-primer(s) <sup>3</sup>	513	481	289	538	538	419	341	479	430	563	566	312	312	956
	5'-TCT 3'	5'-gTA 3'	5'-AgT 3'	5'-CCA 3'	5'-CCA 3'	5'-Cgg 3'	5'-CgT 3'	5'-CCA 3'	5'-gCg 3'	5'-CgA 3'	5'-CA 3'	5'-AgT 3'	5'-AgT 3'	5'-CAG 3'
	571	513								585	585			
	5'-CCA 3'	5'-TCT 3'							5'-AgC 3'	5'-AgC 3'				
	601													
	5'-CTT 3'													
Well No.	49	50	51	52	53	54	55	56	57	58	59	60	61	62

<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.

Lot No.: **5L6**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-C*06 SSP subtyping kit<sup>2</sup></b>																			
			Prod. No.:	Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	IHWC cell line <sup>1</sup>	C*		201551601	201671302	201551603	201551604	202024305	201551606	201551607	201551608	201551609	201551610	201551611	201551612	201551613	201671314	201551615	201551616
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	+	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: **5L6**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-C*06 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.:	201671317	201551618	201551619	201905020	201551621	201905022	201551623	201889524	201551625	201551626	201671327	201889528	201671329	201671330	202024331	201551632
	<b>IHWC cell line<sup>1</sup></b>		<b>C*</b>																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CVML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: 5L6

Lot-specific information

CELL LINE VALIDATION SHEET				Well																
HLA-C*06 SSP subtyping kit <sup>2</sup>																				
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201551633	201551634	201551635	201551636	201671337	201912038	201551639	201905040	201551641	201905042	201551643	201551644	201551645	201551646	201551647	201889548
IHC cell line <sup>1</sup>		C*																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	

Lot No.: 5L6

Lot-specific information

CELL LINE VALIDATION SHEET					Well													
HLA-C*06 SSP subtyping kit <sup>2</sup>					49	50	51	52	53	54	55	56	57	58	59	60	61	62
				Prod. No.:	201905049	201671350	201671351	202024352	202024353	201671354	201905055	201671356	201905057	201905058	201905059	201905060	202024361	202024362
	IHWC cell line <sup>1</sup>		C*															
1	9001 SA		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*03:04	*04:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-
5	9009 KAS011		*06:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-
6	9353 SM		*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL		*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU		*04:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-
9	9026 YAR		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*06:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-
13	9004 JESTHOM		*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB		*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU		*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF		*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B		*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*03:03	*04:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-
37	9065 HHKB		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL		*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199		*01:02	*06:02	-	-	-	-	-	-	+	-	-	-	-	-	-	-
41	9055 H0301		*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*06:02	*17:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-
46	9013 SCHU		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND		*04:01	*16:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-

**Lot No.: 5L6**

**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, 8, 10, 12 to 22, 24 to 36, 38 to 42, 44, 47 to 54 and 56 to 62 were available.

The specificity of the primers in primer solutions 8, 10, 14, 16, 19 to 22, 24 to 30, 32, 34, 35, 38, 39, 41, 42, 44, 47 to 49, 51 and 52 were tested by separately adding one, two or three 5'-primers, respectively one, two or three 3'-primers.

In primer solutions 13, 17, 33, 40, 50 and 56 to 59 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 7, 12, 15, 18, 31, 36, 53, 54, 60, 61 and 62 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 2, 3, 5, 10, 14, 16, 21, 24, 26, 28, 29, 32, 34, 35, 37, 38, 41, 44, 47, 52 and 55 one or more 5'-primers were not possible to test.

In primer solutions 6, 10, 11, 19 to 23, 25 to 27, 30, 32, 35, 42, 47 and 49 one or more 3'-primers were not possible to test.

In addition, one or more 3' -and/or 5' primers in primer solutions 5, 9 and 11 were tested by separately adding one 5'-primer and/or one 3'-primer.



Lot No.: **5L6**

Lot-specific information

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