

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

Visit <https://labproducts.caredx.com> for  
“Instructions for Use” (IFU)

Lot No.: **1H4**

Lot-specific information  
**Olerup SSP<sup>®</sup> HLA-C\*03**

Product number:	101.611-12 – including <i>Taq</i> polymerase 101.611-12u – without <i>Taq</i> polymerase
Lot number:	1H4
Expiry date:	2021-06-01
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. 1H4.**

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

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup>  
HLA-C\*03 LOT (6E9).**

The HLA-C\*03 kit is updated for new alleles to enable separation of:

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

Five wells have been added to HLA-C\*03, wells **59** to **63**.  
The format of the Worksheet has been changed.

The HLA-C\*03 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP<sup>®</sup>* HLA-C\*03 lot was made (**Lot No. 6E9**).

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

Well	5'-primer	3'-primer	rationale
2	Exchanged	-	5'-primer exchanged for the C*03:02:15 allele.
10	-	Added	3'-primer added for increased yield of the C*02:02:01 allele.
13	Exchanged	-	5'-primer exchanged for the C*03:02:15 allele.
22	-	Added	3'-primer added for increased yield of the C*03 alleles.
24	Moved	Moved	Primer pair moved to well 59 for decreased tendency of primer oligomer formation.
35	Moved	Moved	Primer pair moved to well 60 for decreased tendency of primer oligomer formation.
41	-	Added	3'-primer added for the C*03:380N allele.
42	Moved	Moved	Primer pair moved to well 62 for decreased tendency of primer oligomer formation.
52	-	Added	3'-primer added for the C*03:377N allele.
53	-	Added	3'-primer added for the C*03:380N allele.
56	-	Added	3'-primer added for the C*03:363N allele.
58	Added	Added	Negative control moved to well 63, primer pair added for improved allelic resolution.
59	Added	Added	Primer pair added from well 24.
60	Added	Added	Primer pair added from well 35.
61	New	New	New primer pair added for the C*03:366N allele.
62	Added	Added	Primer pair added from well 42.
63	-	-	Negative Control added from well 58.

Changes in revision R02 compared to R00:

1. In primer mix 10, the size of the positive control band has been corrected to 800 bp in the Product Insert and the Worksheet.

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Well **63** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP<sup>®</sup> HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

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

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

Length of PCR product	105	200	105	80	75	80	85
<b>5'-primer<sup>1</sup></b>	<b>164</b>	<b>340</b>	<b>440</b>	<b>45</b>	<b>45</b>	<b>43</b>	<b>36</b>
	5'-CAC <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-TAC <sup>3'</sup>
							<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-C\*03 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C\*03:02 to C\*03:390 alleles.

#### PLATE LAYOUT

Each test consists of 63 PCR reactions in a 64 well cut 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	44	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\*03' in silver/gray ink.

Well No. 1 is marked with the Lot Number '1H4'.

Wells 1 to 62 – HLA-C\*03 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 heat-sealed with a PCR-compatible foil.

#### INTERPRETATION

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

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-C\*03 alleles, i.e. **C\*03:02 to C\*03:390**, recognized by the HLA Nomenclature Committee in July 2018<sup>1,2</sup> will be amplified by the primers in the HLA-C\*03 subtyping kit<sup>3</sup>.

The HLA-C\*03 kit enables separation of the confirmed HLA-C\*03 alleles as listed in the IMGT/HLA database 3.25.0. 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\*05 alleles is listed below.

The HLA-C\*03 kit also enables identification of null and alternatively expressed alleles.

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**Lot-specific information**

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

Alleles	Primer mix	Alleles	Primer mix
C*03:04:19, 03:265N	12	C*03:44, 03:123, 03:209	31
C*03:06:01-03:06:02, 03:287	6	C*03:49, 03:103	23
C*03:23, 03:263:01-03:263:02	18	C*03:50, 03:122	36
C*03:24, 03:236	19	C*03:62, 03:346	33
C*03:28, 03:90	23	C*03:68, 03:205	41
C*03:37:01-03:37:02, 03:208N	27	C*03:72, 03:219	36
C*03:44, 03:123, 03:209	31		

<sup>1</sup>HLA-C alleles listed on the IMGT/HLA web page 2018-July-11, release 3.33.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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

<sup>3</sup>The C\*03:99:01 and C\*05:107 alleles give rise to identical amplification patterns with the HLA-C\*03 subtyping kit. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C\*05 subtyping kits.

The C\*03:135, 03:154, 03:260, 03:286 and 03:326 and the C\*15:43 give rise to identical amplification patterns with the HLA-C\*03 subtyping kit. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C\*15 subtyping kits.

**RESOLUTION IN HOMO- AND HETEROZYGOTES**

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

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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>C*03:02:01</b>	<b>Confirmed</b>	<b>C*03:04:01:01</b>	<b>Confirmed</b>	C*03:04:50	Unconfirmed	<b>C*03:43:01</b>	<b>Confirmed</b>
<b>C*03:02:02:01</b>	<b>Confirmed</b>	<b>C*03:04:01:02</b>	<b>Confirmed</b>	C*03:04:51	Unconfirmed	C*03:43:02	Unconfirmed
C*03:02:02:02	Unconfirmed	<b>C*03:04:02</b>	<b>Confirmed</b>	<b>C*03:05</b>	<b>Confirmed</b>	<b>C*03:44</b>	<b>Confirmed</b>
C*03:02:02:03	Unconfirmed	C*03:04:03	Unconfirmed	<b>C*03:06:01</b>	<b>Confirmed</b>	C*03:45	Unconfirmed
C*03:02:03	Unconfirmed	<b>C*03:04:04</b>	<b>Confirmed</b>	C*03:06:02	Unconfirmed	<b>C*03:46</b>	<b>Confirmed</b>
C*03:02:04	Unconfirmed	C*03:04:05	Unconfirmed	<b>C*03:07</b>	<b>Confirmed</b>	<b>C*03:47</b>	<b>Confirmed</b>
C*03:02:05	Unconfirmed	C*03:04:06	Unconfirmed	<b>C*03:08</b>	<b>Confirmed</b>	C*03:48	Unconfirmed
<b>C*03:02:06</b>	<b>Confirmed</b>	C*03:04:07	Unconfirmed	<b>C*03:09</b>	<b>Confirmed</b>	<b>C*03:49</b>	<b>Confirmed</b>
C*03:02:07	Unconfirmed	<b>C*03:04:08</b>	<b>Confirmed</b>	<b>C*03:10</b>	<b>Confirmed</b>	C*03:50	Unconfirmed
C*03:02:08	Unconfirmed	<b>C*03:04:09</b>	<b>Confirmed</b>	C*03:11:01	Unconfirmed	<b>C*03:51</b>	<b>Confirmed</b>
<b>C*03:02:09</b>	<b>Confirmed</b>	<b>C*03:04:10</b>	<b>Confirmed</b>	<b>C*03:11:02</b>	<b>Confirmed</b>	C*03:52	Unconfirmed
<b>C*03:02:10</b>	<b>Confirmed</b>	<b>C*03:04:11</b>	<b>Confirmed</b>	C*03:13:01	Unconfirmed	<b>C*03:53</b>	<b>Confirmed</b>
C*03:02:11	Unconfirmed	C*03:04:12	Unconfirmed	C*03:13:02	Unconfirmed	<b>C*03:54</b>	<b>Confirmed</b>
C*03:02:12	Unconfirmed	<b>C*03:04:13</b>	<b>Confirmed</b>	<b>C*03:14</b>	<b>Confirmed</b>	<b>C*03:55</b>	<b>Confirmed</b>
C*03:02:13	Unconfirmed	C*03:04:14	Unconfirmed	C*03:15	Unconfirmed	<b>C*03:56</b>	<b>Confirmed</b>
C*03:02:14	Unconfirmed	<b>C*03:04:15</b>	<b>Confirmed</b>	<b>C*03:16</b>	<b>Confirmed</b>	C*03:57:01	Unconfirmed
C*03:02:15	Unconfirmed	<b>C*03:04:16</b>	<b>Confirmed</b>	<b>C*03:17</b>	<b>Confirmed</b>	C*03:57:02	Unconfirmed
<b>C*03:03:01:01</b>	<b>Confirmed</b>	<b>C*03:04:17</b>	<b>Confirmed</b>	C*03:18:01	Unconfirmed	C*03:58	Unconfirmed
C*03:03:01:02	Unconfirmed	<b>C*03:04:18</b>	<b>Confirmed</b>	C*03:18:02	Unconfirmed	<b>C*03:59</b>	<b>Confirmed</b>
<b>C*03:03:02</b>	<b>Confirmed</b>	<b>C*03:04:19</b>	<b>Confirmed</b>	<b>C*03:19</b>	<b>Confirmed</b>	C*03:60	Unconfirmed
C*03:03:03	Unconfirmed	C*03:04:20	Unconfirmed	C*03:20N	Unconfirmed	C*03:61	Unconfirmed
<b>C*03:03:04</b>	<b>Confirmed</b>	<b>C*03:04:21</b>	<b>Confirmed</b>	<b>C*03:21</b>	<b>Confirmed</b>	<b>C*03:62</b>	<b>Confirmed</b>
<b>C*03:03:05</b>	<b>Confirmed</b>	<b>C*03:04:22</b>	<b>Confirmed</b>	C*03:22Q	Unconfirmed	<b>C*03:63</b>	<b>Confirmed</b>
C*03:03:06	Unconfirmed	<b>C*03:04:23</b>	<b>Confirmed</b>	<b>C*03:23</b>	<b>Confirmed</b>	<b>C*03:64:01</b>	<b>Confirmed</b>
<b>C*03:03:07</b>	<b>Confirmed</b>	<b>C*03:04:24</b>	<b>Confirmed</b>	C*03:24	Unconfirmed	C*03:64:02	Unconfirmed
<b>C*03:03:08</b>	<b>Confirmed</b>	C*03:04:25	Unconfirmed	<b>C*03:25</b>	<b>Confirmed</b>	<b>C*03:65</b>	<b>Confirmed</b>
C*03:03:09	Unconfirmed	C*03:04:26	Unconfirmed	<b>C*03:26</b>	<b>Confirmed</b>	C*03:66	Unconfirmed
<b>C*03:03:10</b>	<b>Confirmed</b>	C*03:04:27	Unconfirmed	<b>C*03:27</b>	<b>Confirmed</b>	C*03:67	Unconfirmed
C*03:03:11	Unconfirmed	<b>C*03:04:28</b>	<b>Confirmed</b>	<b>C*03:28</b>	<b>Confirmed</b>	C*03:68	Unconfirmed
<b>C*03:03:12</b>	<b>Confirmed</b>	C*03:04:29	Unconfirmed	<b>C*03:29</b>	<b>Confirmed</b>	<b>C*03:69</b>	<b>Confirmed</b>
C*03:03:13	Unconfirmed	<b>C*03:04:30</b>	<b>Confirmed</b>	<b>C*03:30</b>	<b>Confirmed</b>	<b>C*03:70</b>	<b>Confirmed</b>
C*03:03:14	Unconfirmed	C*03:04:31	Unconfirmed	C*03:31	Unconfirmed	C*03:71	Unconfirmed
C*03:03:15	Unconfirmed	C*03:04:32	Unconfirmed	<b>C*03:32</b>	<b>Confirmed</b>	C*03:72	Unconfirmed
<b>C*03:03:16</b>	<b>Confirmed</b>	C*03:04:33	Unconfirmed	C*03:33	Unconfirmed	C*03:73	Unconfirmed
C*03:03:17	Unconfirmed	C*03:04:34	Unconfirmed	<b>C*03:34</b>	<b>Confirmed</b>	<b>C*03:74</b>	<b>Confirmed</b>
C*03:03:18	Unconfirmed	C*03:04:35	Unconfirmed	<b>C*03:35:01</b>	<b>Confirmed</b>	<b>C*03:75</b>	<b>Confirmed</b>
<b>C*03:03:19</b>	<b>Confirmed</b>	C*03:04:36	Unconfirmed	<b>C*03:35:02</b>	<b>Confirmed</b>	<b>C*03:76</b>	<b>Confirmed</b>
C*03:03:20	Unconfirmed	C*03:04:37	Unconfirmed	<b>C*03:36</b>	<b>Confirmed</b>	C*03:77	Unconfirmed
C*03:03:21	Unconfirmed	C*03:04:38	Unconfirmed	<b>C*03:37:01</b>	<b>Confirmed</b>	<b>C*03:78</b>	<b>Confirmed</b>
<b>C*03:03:22</b>	<b>Confirmed</b>	<b>C*03:04:39</b>	<b>Confirmed</b>	<b>C*03:37:02</b>	<b>Confirmed</b>	<b>C*03:79</b>	<b>Confirmed</b>
C*03:03:23	Unconfirmed	C*03:04:40	Unconfirmed	<b>C*03:38:01</b>	<b>Confirmed</b>	C*03:80	Unconfirmed
C*03:03:24	Unconfirmed	<b>C*03:04:41</b>	<b>Confirmed</b>	<b>C*03:38:02</b>	<b>Confirmed</b>	<b>C*03:81</b>	<b>Confirmed</b>
C*03:03:25	Unconfirmed	C*03:04:42	Unconfirmed	C*03:39	Unconfirmed	<b>C*03:82</b>	<b>Confirmed</b>
C*03:03:26	Unconfirmed	C*03:04:43	Unconfirmed	<b>C*03:40:01</b>	<b>Confirmed</b>	C*03:83	Unconfirmed
<b>C*03:03:27</b>	<b>Confirmed</b>	C*03:04:44	Unconfirmed	C*03:40:02	Unconfirmed	C*03:84	Unconfirmed
C*03:03:28	Unconfirmed	C*03:04:45	Unconfirmed	C*03:40:03	Unconfirmed	<b>C*03:85</b>	<b>Confirmed</b>
<b>C*03:03:29</b>	<b>Confirmed</b>	C*03:04:46	Unconfirmed	C*03:40:04	Unconfirmed	<b>C*03:86</b>	<b>Confirmed</b>
C*03:03:30	Unconfirmed	C*03:04:47	Unconfirmed	<b>C*03:41:01</b>	<b>Confirmed</b>	<b>C*03:87:01</b>	<b>Confirmed</b>
C*03:03:31	Unconfirmed	C*03:04:48	Unconfirmed	<b>C*03:41:02</b>	<b>Confirmed</b>	<b>C*03:87:02</b>	<b>Confirmed</b>
C*03:03:32	Unconfirmed	C*03:04:49	Unconfirmed	<b>C*03:42</b>	<b>Confirmed</b>	<b>C*03:88</b>	<b>Confirmed</b>



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Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
C*03:89	Unconfirmed	<b>C*03:136</b>	<b>Confirmed</b>	C*03:185	Unconfirmed	C*03:233	Unconfirmed
<b>C*03:90</b>	<b>Confirmed</b>	<b>C*03:137</b>	<b>Confirmed</b>	C*03:186:01	Unconfirmed	C*03:234	Unconfirmed
C*03:91:01	Unconfirmed	C*03:138	Unconfirmed	C*03:186:02	Unconfirmed	C*03:235	Unconfirmed
C*03:91:02	Unconfirmed	<b>C*03:139</b>	<b>Confirmed</b>	C*03:187	Unconfirmed	C*03:236	Unconfirmed
C*03:92	Unconfirmed	<b>C*03:140</b>	<b>Confirmed</b>	C*03:188	Unconfirmed	C*03:237	Unconfirmed
C*03:93	Unconfirmed	C*03:141	Unconfirmed	C*03:189N	Unconfirmed	C*03:238	Unconfirmed
C*03:94	Unconfirmed	C*03:142	Unconfirmed	C*03:190	Unconfirmed	C*03:239	Unconfirmed
<b>C*03:95</b>	<b>Confirmed</b>	C*03:143	Unconfirmed	C*03:191	Unconfirmed	C*03:240	Unconfirmed
<b>C*03:96</b>	<b>Confirmed</b>	C*03:144	Unconfirmed	<b>C*03:192</b>	<b>Confirmed</b>	C*03:241	Unconfirmed
C*03:97	Unconfirmed	<b>C*03:145</b>	<b>Confirmed</b>	C*03:193	Unconfirmed	C*03:242	Unconfirmed
C*03:98	Unconfirmed	C*03:146	Unconfirmed	C*03:194	Unconfirmed	<b>C*03:243</b>	<b>Confirmed</b>
C*03:99	Unconfirmed	<b>C*03:147</b>	<b>Confirmed</b>	C*03:195	Unconfirmed	C*03:244Q	Unconfirmed
<b>C*03:100</b>	<b>Confirmed</b>	C*03:148	Unconfirmed	C*03:196	Unconfirmed	C*03:245	Unconfirmed
<b>C*03:101</b>	<b>Confirmed</b>	C*03:149	Unconfirmed	C*03:197	Unconfirmed	C*03:246	Unconfirmed
C*03:102	Unconfirmed	C*03:150	Unconfirmed	<b>C*03:198</b>	<b>Confirmed</b>	C*03:247	Unconfirmed
C*03:103	Unconfirmed	<b>C*03:151</b>	<b>Confirmed</b>	C*03:199	Unconfirmed	C*03:248	Unconfirmed
C*03:104	Unconfirmed	C*03:152	Unconfirmed	C*03:200	Unconfirmed	C*03:249	Unconfirmed
C*03:105	Unconfirmed	<b>C*03:153</b>	<b>Confirmed</b>	C*03:201N	Unconfirmed	<b>C*03:250</b>	<b>Confirmed</b>
C*03:106	Unconfirmed	C*03:154	Unconfirmed	C*03:202	Unconfirmed	<b>C*03:251</b>	<b>Confirmed</b>
C*03:107	Unconfirmed	<b>C*03:155</b>	<b>Confirmed</b>	C*03:203	Unconfirmed	C*03:252	Unconfirmed
C*03:108	Unconfirmed	C*03:156	Unconfirmed	C*03:204	Unconfirmed	C*03:253	Unconfirmed
<b>C*03:109</b>	<b>Confirmed</b>	C*03:157	Unconfirmed	C*03:205	Unconfirmed	C*03:254	Unconfirmed
C*03:110	Unconfirmed	C*03:158	Unconfirmed	<b>C*03:206</b>	<b>Confirmed</b>	C*03:255	Unconfirmed
C*03:111	Unconfirmed	C*03:159	Unconfirmed	C*03:207	Unconfirmed	C*03:256	Unconfirmed
C*03:112	Unconfirmed	C*03:160	Unconfirmed	C*03:208N	Unconfirmed	C*03:257	Unconfirmed
<b>C*03:113:01</b>	<b>Confirmed</b>	C*03:161	Unconfirmed	<b>C*03:209</b>	<b>Confirmed</b>	<b>C*03:258</b>	<b>Confirmed</b>
C*03:113:02	Unconfirmed	C*03:162	Unconfirmed	C*03:210	Unconfirmed	C*03:259	Unconfirmed
C*03:114	Unconfirmed	C*03:163	Unconfirmed	<b>C*03:211:01</b>	<b>Confirmed</b>	C*03:260	Unconfirmed
<b>C*03:115</b>	<b>Confirmed</b>	C*03:164	Unconfirmed	C*03:211:02	Unconfirmed	C*03:261	Unconfirmed
<b>C*03:116:01</b>	<b>Confirmed</b>	<b>C*03:165</b>	<b>Confirmed</b>	<b>C*03:212</b>	<b>Confirmed</b>	C*03:262	Unconfirmed
C*03:116:02	Unconfirmed	C*03:166	Unconfirmed	C*03:213	Unconfirmed	C*03:263:01	Unconfirmed
C*03:117	Unconfirmed	<b>C*03:167</b>	<b>Confirmed</b>	<b>C*03:214</b>	<b>Confirmed</b>	C*03:263:02	Unconfirmed
C*03:118	Unconfirmed	C*03:168	Unconfirmed	C*03:215	Unconfirmed	C*03:264	Unconfirmed
C*03:119	Unconfirmed	C*03:169Q	Unconfirmed	C*03:216	Unconfirmed	C*03:265N	Unconfirmed
<b>C*03:120</b>	<b>Confirmed</b>	C*03:170	Unconfirmed	C*03:217	Unconfirmed	C*03:266	Unconfirmed
C*03:121N	Unconfirmed	C*03:171	Unconfirmed	C*03:218	Unconfirmed	C*03:267	Unconfirmed
<b>C*03:122</b>	<b>Confirmed</b>	C*03:172	Unconfirmed	C*03:219	Unconfirmed	C*03:268	Unconfirmed
<b>C*03:123</b>	<b>Confirmed</b>	C*03:173	Unconfirmed	C*03:220	Unconfirmed	C*03:269	Unconfirmed
C*03:124	Unconfirmed	<b>C*03:174</b>	<b>Confirmed</b>	<b>C*03:221</b>	<b>Confirmed</b>	C*03:270	Unconfirmed
C*03:125	Unconfirmed	C*03:175	Unconfirmed	C*03:222	Unconfirmed	C*03:271	Unconfirmed
<b>C*03:126</b>	<b>Confirmed</b>	<b>C*03:176</b>	<b>Confirmed</b>	C*03:223	Unconfirmed	<b>C*03:272</b>	<b>Confirmed</b>
C*03:127	Unconfirmed	C*03:177	Unconfirmed	C*03:224N	Unconfirmed	C*03:273	Unconfirmed
C*03:128	Unconfirmed	C*03:178	Unconfirmed	C*03:225	Unconfirmed	C*03:274	Unconfirmed
C*03:129	Unconfirmed	C*03:179	Unconfirmed	C*03:226	Unconfirmed	C*03:275	Unconfirmed
C*03:130	Unconfirmed	C*03:180	Unconfirmed	C*03:227	Unconfirmed	C*03:276	Unconfirmed
C*03:131	Unconfirmed	C*03:181	Unconfirmed	C*03:228	Unconfirmed	C*03:277N	Unconfirmed
C*03:132	Unconfirmed	C*03:182	Unconfirmed	C*03:229N	Unconfirmed	C*03:278	Unconfirmed
C*03:133	Unconfirmed	C*03:183	Unconfirmed	C*03:230	Unconfirmed	C*03:279	Unconfirmed
C*03:134	Unconfirmed	<b>C*03:184:01</b>	<b>Confirmed</b>	C*03:231	Unconfirmed	C*03:280	Unconfirmed
C*03:135	Unconfirmed	C*03:184:02	Unconfirmed	C*03:232	Unconfirmed	C*03:281	Unconfirmed

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
C*03:282	Unconfirmed	C*03:302	Unconfirmed	C*03:322	Unconfirmed
C*03:283	Unconfirmed	C*03:303	Unconfirmed	C*03:323N	Unconfirmed
C*03:284	Unconfirmed	C*03:304	Unconfirmed	C*03:324	Unconfirmed
C*03:285	Unconfirmed	C*03:305	Unconfirmed		
C*03:286	Unconfirmed	C*03:306	Unconfirmed		
C*03:287	Unconfirmed	C*03:307	Unconfirmed		
C*03:288	Unconfirmed	C*03:308	Unconfirmed		
C*03:289	Unconfirmed	C*03:309	Unconfirmed		
C*03:290	Unconfirmed	C*03:310	Unconfirmed		
C*03:291	Unconfirmed	<b>C*03:311</b>	<b>Confirmed</b>		
C*03:292	Unconfirmed	C*03:312	Unconfirmed		
C*03:293	Unconfirmed	C*03:313	Unconfirmed		
C*03:294	Unconfirmed	C*03:314	Unconfirmed		
C*03:295	Unconfirmed	C*03:315	Unconfirmed		
C*03:296	Unconfirmed	C*03:316N	Unconfirmed		
C*03:297	Unconfirmed	C*03:317	Unconfirmed		
C*03:298	Unconfirmed	C*03:318N	Unconfirmed		
C*03:299	Unconfirmed	C*03:319	Unconfirmed		
C*03:300	Unconfirmed	C*03:320	Unconfirmed		
C*03:301	Unconfirmed	C*03:321	Unconfirmed		

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-July-14, release 3.25.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).



101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot-specific information  
**SPECIFICITY TABLE**

**HLA-C\*03 SSP subtyping**

**Specificities and sizes of the PCR products of the 62+1 primer mixes used for HLA-C\*03 SSP subtyping**

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-C*03 alleles <sup>3</sup>	Other amplified HLA Class I alleles
1	280 bp	800 bp	*03:02:01-03:02:09, 03:02:11-03:02:18, 03:04:01:01-03:04:25, 03:04:27-03:10, 03:14-03:17:02, 03:19, 03:23-03:29, 03:32-03:38:02, 03:40:01-03:42, 03:44-03:48, 03:51, 03:54, 03:57:01-03:57:02, 03:60, 03:63-03:64:01, 03:65, 03:70-03:74, 03:77-03:78, 03:80:01-03:80:02, 03:82, 03:84, 03:87:01-03:87:02, 03:89-03:95, 03:98, 03:99:02-03:101, 03:104-03:111, 03:113:01-03:115, 03:117-03:118, 03:121N, 03:123, 03:125, 03:128-03:131, 03:134-03:136, 03:138-03:140, 03:143, 03:145-03:149, 03:153-03:155, 03:157, 03:159, 03:162-03:164, 03:169Q, 03:172-03:174, 03:178-03:181, 03:183-03:184:02, 03:186:01-03:186:02, 03:190-03:191, 03:193-03:194, 03:197-03:201N, 03:208N-03:213, 03:215-03:216, 03:218-03:219, 03:221-03:222, 03:224N-03:226, 03:232-03:236, 03:238-03:240, 03:244Q-03:250, 03:252, 03:255-03:261, 03:263:01-03:263:02, 03:265N-03:266, 03:269-03:270, 03:277N, 03:278 <sup>w</sup> , 03:279-03:283, 03:286-03:287, 03:292-03:294, 03:296:01-03:303, 03:305-03:306, 03:309-03:311, 03:313-03:315, 03:317-03:318N, 03:322-03:323N, 03:326, 03:328-03:335, 03:337-03:338, 03:340, 03:342-03:343, 03:347-03:350, 03:353-03:355, 03:358-03:359, 03:361-03:362, 03:365-03:366N, 03:368-03:369, 03:371, 03:373, 03:376, 03:379, 03:381-03:382, 03:384-03:388, 03:390	*02:02:01-02:02:03, 02:02:05-02:02:29, 02:02:31-02:02:39, 02:03, 02:04 <sup>w</sup> , 02:05:01-02:13, 02:14:01 <sup>w</sup> , 02:15-02:25Q, 02:26:02-02:32, 02:34-02:40:02, 02:42-02:86, 02:88-02:106, 02:108-02:133, 02:135N-02:140, 04:03:01-04:03:04, 04:06:01-04:06:02, 04:16, 04:80, 04:107, 04:147, 04:160, 04:171, 04:256, 04:286, 05:58:01, 05:58:03, 06:03:01, 06:132:01-06:132:02, 07:02:10 <sup>w</sup> , 07:96:01-07:96:02, 07:127 <sup>w</sup> , 07:314:02, 07:578, 12:02:17, 12:03:23, 15:02:01-01-15:02:20, 15:02:22-15:02:24, 15:02:26-15:05:08, 15:05:10-15:09, 15:10:02-15:11, 15:13:01:01-15:13:01:02, 15:15-15:19, 15:21-15:22, 15:24-15:35, 15:37-15:60, 15:62, 15:64-15:106, 15:108-15:137, 15:139-15:143, 15:145N-15:157, 16:34, 16:70, 16:121, <b>B*40:164, B*44:02:44, B*56:01:09, B*58:74, B*82:01:01:02, B*82:02:01:02</b>
2	210 bp	1070 bp	*03:02:01-03:02:18, 03:14-03:15, 03:33, 03:36, 03:40:01-03:40:04, 03:42-03:43:02, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108, 03:110, 03:119:01-03:119:02, 03:121N, 03:132, 03:139, 03:146, 03:169Q,	*07:133, 07:242, 07:330:01, <b>B*15:96</b>

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

Lot No.: <b>1H4</b>		Lot-specific information	
			03:175, 03:190, 03:194, 03:197-03:201N, 03:216, 03:221-03:222, 03:224N-03:226, 03:238, 03:240, 03:245, 03:248, 03:258, 03:264, 03:271, 03:279, 03:298-03:301, 03:315, 03:329-03:330, 03:332, 03:338, 03:349-03:350, 03:361, 03:365, 03:371, 03:373
<b>3</b>	280 bp	<b>800 bp</b>	*03:03:01:01-03:03:20, 03:03:22-03:03:43, 03:11:01-03:11:02, 03:13:01-03:13:02, 03:18:02, 03:20N-03:22Q, 03:30-03:31, 03:43:01-03:43:02, 03:49-03:50, 03:52-03:53, 03:55-03:56, 03:58-03:59, 03:61-03:62, 03:66, 03:67 <sup>w</sup> , 03:68-03:69, 03:75-03:76, 03:79, 03:81, 03:83, 03:85-03:86, 03:88, 03:96-03:97, 03:102-03:103, 03:112, 03:116:01-03:116:02, 03:119:01-03:120, 03:122, 03:124, 03:126-03:127, 03:132-03:133, 03:141-03:142, 03:150-03:152, 03:158, 03:160-03:161, 03:165:01-03:165:02, 03:167-03:168, 03:171, 03:175-03:177, 03:185, 03:187-03:189N, 03:192, 03:196, 03:202-03:207, 03:214, 03:217, 03:220, 03:223, 03:227-03:230, 03:237, 03:241-03:243, 03:251, 03:253-03:254, 03:262, 03:267-03:268, 03:271-03:276, 03:284-03:285, 03:288-03:291, 03:295 <sup>w</sup> , 03:304, 03:307-03:308, 03:312, 03:316N, 03:319-03:321, 03:324-03:325, 03:327, 03:336, 03:339, 03:341, 03:345-03:346, 03:351-03:352, 03:356-03:357, 03:360, 03:363N-03:364, 03:367, 03:370, 03:372, 03:374-03:375, 03:377N-03:378, 03:380N, 03:383, 03:389
			*15:12, 15:144
<b>4</b>	275 bp	1070 bp	*03:03:01:01-03:04:59, 03:06:01-03:11:02, 03:14, 03:18:01-03:24, 03:26, 03:28-03:32, 03:34, 03:37:01-03:40:04, 03:42-03:57:02, 03:59, 03:61-03:70, 03:72-03:83, 03:85, 03:87:01-03:88, 03:90-03:93, 03:96, 03:98, 03:100-03:107, 03:109, 03:111-03:112, 03:114-03:120, 03:122-03:131, 03:133-03:134, 03:136-03:138, 03:140-03:145, 03:147-03:150, 03:152-03:153, 03:155-03:164, 03:166, 03:168, 03:170-03:176, 03:179-03:189N, 03:191-03:193, 03:195-03:196, 03:202-03:215, 03:217-03:220, 03:223, 03:227-03:237, 03:239-03:244Q, 03:246-03:247, 03:250, 03:252-03:257, 03:259, 03:261,
			*01:131, <b>B*44:274</b>

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

			03:262 <sup>?</sup> , 03:263:01-03:263:02, 03:265N-03:266, 03:268-03:270, 03:272-03:285, 03:287-03:291, 03:294-03:295, 03:297, 03:303- 03:314, 03:316N-03:325, 03:327- 03:328, 03:331, 03:333-03:334, 03:336-03:337, 03:339-03:348, 03:351-03:364, 03:366N-03:370, 03:372, 03:374-03:383, 03:385, 03:387-03:390	
<b>5</b>	275 bp	1070 bp	*03:05, 03:13:01-03:13:02, 03:17:01- 03:17:02, 03:25, 03:27, 03:35:01- 03:35:02, 03:71, 03:167, 03:178, 03:198, 03:249, 03:267, 03:271, 03:292, 03:296:01-03:296:02, 03:302, 03:335, 03:386	*01:65, 04:201:02, 04:212, 05:86, 07:133, 07:242, 07:330:01, <b>B*15:96</b>
<b>6<sup>4</sup></b>	90 bp 215 bp	<b>800 bp</b>	*03:21, 03:80:02, 03:142, 03:287 *03:06:01-03:06:02	<b>B*15:96</b>
<b>7<sup>4,5</sup></b>	110 bp	1070 bp	*03:08, 03:29, 03:31, 03:246	*01:118, 01:128, 06:44, 07:01:01:01-07:01:24, 07:01:26- 07:01:61, 07:06:01:01-07:07, 07:09, 07:16, 07:18-07:20, 07:22, 07:24, 07:26:01-07:26:03, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:60, 07:65, 07:70-07:71, 07:73:01-07:73:02, 07:77-07:78:02, 07:81-07:83, 07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:108:01-07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131:01-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:162, 07:164N-07:166, 07:170, 07:173, 07:176, 07:179- 07:180, 07:182, 07:188- 07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:224, 07:227N-07:228, 07:230-07:231, 07:235Q-07:237, 07:246:01- 07:250, 07:253-07:257:04, 07:263, 07:266-07:269, 07:276- 07:282, 07:292-07:293, 07:296- 07:301, 07:303-07:304, 07:310- 07:311, 07:313, 07:317, 07:330:01-07:332, 07:337, 07:343, 07:353, 07:362, 07:366, 07:369-07:371, 07:377, 07:385- 07:387, 07:404, 07:407-07:408, 07:410, 07:412, 07:417, 07:419, 07:421-07:422, 07:424, 07:427, 07:430-07:431, 07:435,

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot No.: **1H4**

Lot-specific information

			07:437N, 07:440-07:444, 07:448, 07:450, 07:453-07:455, 07:458, 07:460-07:463, 07:468- 07:471, 07:475-07:476N, 07:479, 07:481, 07:488, 07:490- 07:492, 07:498-07:499, 07:502, 07:506, 07:508, 07:512, 07:514- 07:515, 07:517, 07:521-07:522, 07:526-07:527, 07:531, 07:536- 07:537, 07:540, 07:545-07:547, 07:549-07:550, 07:554, 07:555 <sup>w</sup> , 07:557, 07:559, 07:561, 07:568, 07:570-07:571, 07:579, 07:581, 07:587-07:589, 07:591, 07:602- 07:604, 07:607, 07:610, 07:613- 07:615, 07:617-07:621, 07:623- 07:624, 07:627, 07:633N- 07:634, 14:73, 15:02:10, 15:02:17, 15:99, 18:05, <b>B*07:259</b>	
185 bp		03:03:01:01-03:03:43, 03:11:01- 03:11:02, 03:13:01-03:13:02, 03:18:01-03:18:02, 03:20N-03:22Q, 03:30-03:31, 03:39, 03:43:01- 03:43:02, 03:49-03:50, 03:52-03:53, 03:55-03:56, 03:58-03:59, 03:61- 03:62, 03:66-03:69, 03:75-03:76, 03:79, 03:81, 03:83, 03:85-03:86, 03:88, 03:96-03:97, 03:102-03:103, 03:112, 03:116:01-03:116:02, 03:119:01-03:120, 03:122, 03:124, 03:126-03:127, 03:132-03:133, 03:141-03:142, 03:144, 03:150- 03:152, 03:158, 03:160-03:161, 03:165:01-03:165:02, 03:167-03:168, 03:171, 03:175-03:177, 03:182, 03:185, 03:187-03:189N, 03:192, 03:195-03:196, 03:202-03:207, 03:214, 03:217, 03:220, 03:223, 03:227-03:231, 03:237, 03:241- 03:243, 03:251, 03:253-03:254, 03:262, 03:267-03:268, 03:271- 03:276, 03:284-03:285, 03:288- 03:291, 03:295, 03:304, 03:307- 03:308, 03:312, 03:316N, 03:319- 03:321, 03:324-03:325, 03:327, 03:336, 03:339, 03:341, 03:345- 03:346, 03:351-03:352, 03:356- 03:357, 03:360, 03:363N, 03:367, 03:370, 03:372, 03:375, 03:377N- 03:378, 03:380N, 03:383, 03:389	*01:51, 06:53:01, 07:56:01, 07:60, 07:79, 07:109:01, 14:46:02, 17:26, <b>B*07:93</b> , <b>B*08:39</b> , <b>B*27:155</b> , <b>B*35:101:02</b> , <b>B*35:195</b> , <b>B*35:211</b> , <b>B*38:27</b> , <b>B*51:76</b> , <b>B*54:34</b>	
<b>8</b>	255 bp	1070 bp	*03:09, 03:22Q, 03:42, 03:71, 03:89, 03:116:01-03:116:02, 03:119:01- 03:119:02, 03:139, 03:169Q, 03:199, 03:240, 03:249, 03:267, 03:292, 03:300	*04:201:02, 04:212, 05:86, 07:133, 07:242, 07:330:01, <b>B*56:37</b>

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101.611-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

<b>9</b>	240 bp	1070 bp	*03:07:01-03:07:02, 03:15, 03:45, 03:130, 03:140, 03:163, 03:243, 03:268, 03:297	*02:02:01-02:02:03, 02:02:05- 02:02:11, 02:02:13-02:02:29, 02:02:31-02:02:39, 02:03, 02:04 <sup>w</sup> , 02:05:01-02:11, 02:13, 02:14:01 <sup>w</sup> , 02:15-02:25Q, 02:26:02-02:26:03, 02:28- 02:40:02, 02:42-02:86, 02:88- 02:106, 02:108-02:114, 02:116- 02:125, 02:127-02:128, 02:130, 02:132-02:133, 02:135N-02:140, 04:03:01-04:03:04, 04:06:01- 04:06:02, 04:16, 04:80, 04:107, 04:147, 04:160, 04:171, 04:256, 04:286, 05:58:01, 05:58:03, 06:03:01, 06:132:01-06:132:02, 15:02:01:01-15:02:20, 15:02:22- 15:02:24, 15:02:26-15:05:08, 15:05:10, 15:06:01-15:06:03, 15:08-15:09, 15:10:02- 15:13:01:02, 15:15-15:19, 15:22, 15:24, 15:26-15:35, 15:37- 15:42, 15:44:01-15:60, 15:62, 15:64-15:106, 15:108-15:115N, 15:117-15:137, 15:139-15:143, 15:145N-15:157, 16:70, 16:121
<b>10</b>	245 bp	<b>800 bp</b>	*03:07:01-03:07:02, 03:10, 03:15, 03:29, 03:45, 03:115, 03:163, 03:268, 03:297	*02:02:01-02:02:03, 02:02:05- 02:02:29, 02:02:31-02:02:39, 02:03, 02:04 <sup>w</sup> , 02:05:01-02:13, 02:14:01 <sup>w</sup> , 02:15-02:25Q, 02:26:02-02:26:03, 02:28- 02:40:02, 02:42-02:64, 02:66- 02:86, 02:88-02:106, 02:108- 02:114, 02:116-02:130, 02:132- 02:133, 02:135N-02:140, 04:03:01-04:03:04, 04:06:01- 04:06:02, 04:16, 04:80, 04:107, 04:147, 04:160, 04:171, 04:256, 04:286, 05:58:01, 05:58:03, 06:03:01, 06:132:01-06:132:02, 15:02:01:01-15:02:20, 15:02:22- 15:02:24, 15:02:26-15:05:08, 15:05:10-15:06:03, 15:08-15:09, 15:10:02-15:13:01:02, 15:15- 15:19, 15:21-15:22, 15:24, 15:26-15:35, 15:37-15:42, 15:44:01-15:60, 15:62, 15:64- 15:84Q, 15:86-15:106, 15:108- 15:137, 15:139-15:143, 15:145N-15:157, 16:70, 16:121
<b>11</b>	145 bp 230 bp 415 bp	1070 bp	*03:87:01-03:87:02 *03:126, 03:385 *03:08, 03:29, 03:31, 03:246	*05:86  *01:118, 01:128, 04:112, 04:169, 05:36, 06:44, 12:08, 12:81, 12:188, 14:73, 16:64, 16:70, 16:87

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot No.: **1H4**

Lot-specific information

<b>12<sup>4</sup></b>	110 bp 140 bp 260 bp	1070 bp	*03:265N *03:214 *03:03:12, 03:03:15, 03:11:01, 03:18:01, 03:39, 03:308	<b>B*44:198N</b> *01:51, 05:55, 06:53:01, 07:56:01, 07:60, 07:79, 07:109:01, 12:58, 15:12, 15:144, 17:26 *07:10, 07:43:01-07:43:02, 07:184, 07:196, 07:367, 07:568, <b>B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*57:01:18, B*58:01:17</b> *07:104N, 12:46N
	305 bp		*03:03:29, 03:04:19, 03:113:01	
	590 bp			
<b>13<sup>4</sup></b>	80 bp	1070 bp	*03:02:01-03:02:18, 03:15-03:16, 03:33, 03:36, 03:40:01, 03:40:03- 03:40:04, 03:42-03:43:01, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108, 03:110, 03:119:02, 03:121N, 03:132, 03:139, 03:146, 03:169Q, 03:175, 03:194, 03:197-03:201N, 03:216, 03:221-03:222, 03:224N-03:226, 03:238, 03:240, 03:245, 03:248, 03:258, 03:264, 03:271, 03:279, 03:298-03:301, 03:315, 03:329- 03:330, 03:332, 03:338, 03:349- 03:350, 03:365, 03:371, 03:373	*01:97, 02:02:38, 04:54, 06:02:08, 07:02:32, 07:17:03, 07:242, 12:02:19, 12:03:20, 14:02:01:01-14:02:01:07, 14:02:03-14:02:20, 14:02:22- 14:16, 14:18-14:24:01, 14:25, 14:27-14:53, 14:56-14:78, 14:80-14:81, 14:83-14:91, 14:93N-14:96, 15:77, 16:01:06, <b>B*15:78:03</b>
	140 bp		*03:17:01-03:17:02, 03:71, 03:249, 03:271, 03:302	*01:97, 04:37, 04:230, 04:263, 06:02:08, 06:34:02, 12:03:20, 14:02:01:01-14:02:01:07, 14:02:03-14:02:20, 14:02:22- 14:07N, 14:10-14:16, 14:18- 14:27, 14:29-14:53, 14:55- 14:81, 14:83-14:91, 14:93N- 14:96, 16:01:06
<b>14<sup>4</sup></b>	70 bp	1070 bp	*03:02:10, 03:03:21, 03:04:26	*02:26:01, 05:58:02, 06:70:01, 07:20, 07:390, 07:562, 08:105, 12:140, 15:02:25, 15:23:01, 15:138, <b>B*15:315, B*44:85, B*51:226, B*55:30 B*56:37<sup>w</sup></b>
	210 bp		*03:19, 03:102, 03:307	
<b>15<sup>6</sup></b>	135 bp	1070 bp	*03:02:01-03:02:09, 03:02:11- 03:03:20, 03:03:22-03:04:24, 03:04:27-03:11:02, 03:13:01- 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, 03:99:02- 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, 03:249-03:263:02, 03:265N-03:277N, 03:278 <sup>w</sup> , 03:279-03:294, 03:295 <sup>w</sup> , 03:296:01-03:323N, 03:325-03:341, 03:343, 03:345-03:390	*02:02:13, 02:02:29, 06:03:01 <sup>w</sup> , 06:132:01-06:132:02, 07:96:01- 07:96:02, 07:314:02, 07:578, 15:02:10, 15:02:17, 15:43

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

<b>16<sup>4</sup></b>	120 bp 150 bp	1070 bp	*03:105 *03:07:01-03:07:02, 03:10, 03:15, 03:29, 03:45, 03:163, 03:226, 03:268, 03:297	*08:147 *01:14, 01:154, 02:02:13, 02:02:29, 04:01:23, 04:07:02, 05:01:12, 05:29:02, 06:02:01:01- 06:02:01:14, 06:02:03-06:04:02, 06:06-06:10, 06:12-06:76:01, 06:77-06:81, 06:83-06:146, 06:148-06:209, 06:211N-06:216, 06:218-06:219, 07:07, 07:09, 07:76:01-07:76:02, 07:315, 07:328, 07:406, 07:559, 07:598, 12:04:01, 14:12, 14:49, 15:02:10, 15:02:17, 15:99, 17:01:01:02-17:01:03, 17:01:05- 17:21, 17:23-17:40, 18:01- 18:10, <b>B*15:277, B*15:430,</b> <b>B*35:222, B*42:22</b>
	250 bp		*03:218, 03:252	
<b>17<sup>4</sup></b>	100 bp 135 bp	1070 bp	*03:20N, 03:101 *03:05, 03:25, 03:27, 03:167, 03:296:01-03:296:02, 03:335, 03:386	
<b>18</b>	165 bp 195 bp 220 bp	1070 bp	*03:102, 03:263:01-03:263:02 *03:83 *03:23, 03:318N	<b>B*15:96, B*44:274, B*56:37</b>
<b>19<sup>4</sup></b>	105 bp 250 bp	<b>800 bp</b>	*03:24 *03:33, 03:115, 03:236	*15:90 *02:114, 04:106, 08:78
<b>20<sup>7</sup></b>	160 bp 250 bp 455 bp	1070 bp	*03:25, 03:155 *03:47, 03:227, 03:252 *03:227	*08:95, <b>B*35:252, B*39:114</b> *12:126
<b>21</b>	210 bp 240 bp	1070 bp	*03:26 *03:57:01, 03:88	
<b>22</b>	200 bp	<b>800 bp</b>	*03:15, 03:27, 03:38:01-03:38:02, 03:69, 03:130, 03:136, 03:163, 03:237, 03:246, 03:274, 03:277N, 03:297	*02:12, 02:49, 02:55:01- 02:55:02, 02:115, 04:03:01, 04:03:03-04:03:04, 04:06:01- 04:06:02, 04:16, 04:80, 04:107, 04:147, 04:160, 04:171, 04:190, 04:256, 04:286, 06:70:01- 06:70:02, 06:132:01-06:132:02, 07:20, 07:96:01-07:96:02, 07:127, 07:263, 07:390, 07:562, 07:578, 12:140, 15:03, 15:16, 15:25
	255 bp		*03:213	
<b>23<sup>4</sup></b>	90 bp 260 bp	1070 bp	*03:28, 03:49, 03:117 *03:22Q, 03:90, 03:103, 03:153, 03:169Q	*01:65, 04:201:02, 05:86
<b>24</b>	200 bp	1070 bp	*03:30, 03:65, 03:79, 03:121N	



101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

<b>25</b>	305 bp	1070 bp	*03:32, 03:45, 03:136, 03:297	*04:80, 04:100, 04:110 <sup>w</sup> , 04:178, 06:143, 07:10, 07:43:01, 07:196, 07:568 <sup>w</sup> , 15:25, 15:62, <b>B*15:357, B*35:178, B*35:282, B*35:316</b>
	355 bp		*03:38:02, 03:69, 03:130, 03:136, 03:163, 03:246, 03:274, 03:297	*04:80, 04:100, 04:110 <sup>w</sup> , 04:178, 06:143, 07:10, 07:43:01, 07:196, 07:367, 07:568 <sup>w</sup> , 12:44, 15:03, 15:16, 15:25
<b>26<sup>4,6</sup></b>	70 bp	1070 bp	*03:34, 03:142, 03:261, 03:272, 03:386	*04:212, <b>B*44:27</b>  *04:201:02, 04:212, 05:86, 07:133, 07:242, 07:330:01, <b>B*15:96</b>
	105 bp		*03:36, 03:77, 03:187, 03:296:01-03:296:02	
	255 bp		*03:13:01-03:13:02, 03:35:01-03:35:02, 3:125, 03:176, 03:178, 03:198, 03:267, 03:292	
<b>27<sup>4</sup></b>	80 bp	1070 bp	*03:11:01-03:11:02, 03:18:02, 03:37:01-03:37:02, 03:64:01, 03:99:02, 03:301	*02:08, 02:42, 04:256, 06:03:01, 07:314:02, 12:02:17, 12:03:23, 15:10:02-15:10:03, 15:113, <b>B*56:01:09, B*58:74, B*82:01:01:02, B*82:02:01:02</b>
	210 bp 275 bp		*03:208N, 03:323N *03:15, 03:32, 03:45, 03:60, 03:136, 03:297	*02:49, 02:75, 02:115, 04:03:01-04:03:04, 04:06:01-04:06:02, 04:16, 04:80, 04:147, 04:160, 04:171, 04:256, 04:286, 06:03:01, 06:132:01-06:132:02, 07:96:01-07:96:02, 07:314:02, 07:578, 15:25, 15:62
<b>28<sup>4,7</sup></b>	90 bp	1070 bp	*03:258	*01:97, 02:02:38, 04:01:01:01-04:01:04, 04:01:06, 04:01:08, 04:01:10-04:01:17, 04:01:19-04:01:21, 04:01:23-04:01:25, 04:01:27-04:01:67, 04:01:69-04:01:94, 04:03:01-04:04:01:02, 04:05-04:20, 04:23-04:49, 04:51-04:63, 04:65-04:76, 04:78-04:94:01, 04:95N-04:98:02, 04:100-04:119, 04:121-04:155, 04:157-04:159, 04:161-04:174, 04:176-04:177, 04:179, 04:180:02-04:200, 04:202-04:211, 04:213-04:222, 04:223:02-04:233N, 04:235-04:250, 04:252-04:261, 04:263-04:293, 06:02:08, 06:34:02, 07:02:32, 07:17:03, 12:02:19, 12:03:20, 12:233, 14:02:01:01-14:02:01:07, 14:02:03-14:02:10, 14:02:12-14:16, 14:18-14:31, 14:33-14:43, 14:45-14:67, 14:69-14:81, 14:83-14:91, 14:93N-14:96, 15:77, 16:01:06, 18:01-18:10, <b>B*13:13:02, B*15:01:17, B*15:78:03</b>
	165 bp		*03:16, 03:41:01-03:41:02, 03:113:01-03:113:02, 03:147, 03:151, 03:293, 03:384	

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

<b>29</b>	140 bp 170 bp  285 bp	1070 bp	*03:98 *03:51, 03:96, 03:161, 03:165:01, 03:194 *03:39, 03:67	*04:64:01  *06:53:01, 07:56:01, 07:60, 07:79, 07:109:01, <b>B*08:39</b>
<b>30<sup>6</sup></b>	150 bp 175 bp	1070 bp	*03:61 *03:46, 03:96, 03:194, 03:221, 03:328	*04:64:01
<b>31<sup>4</sup></b>	100 bp 210 bp 555 bp	<b>800 bp</b>	*03:59, 03:123 *03:44 *03:58, 03:86, 03:94, 03:99:01- 03:99:02, 03:209, 03:302	*05:85, 05:107, 12:178, 15:37, 15:102, 16:18, <b>B*54:38</b>
<b>32<sup>4,7</sup></b>	90 bp  185 bp	1070 bp	*03:58, 03:189N  *03:48, 03:84, 03:174, 03:281, 03:365	*01:03, 01:24, 01:78, 01:146:01- 01:146:02, 04:37, 05:85, 07:364
<b>33<sup>4</sup></b>	110 bp 180 bp 310 bp 365 bp	1070 bp	*03:62 *03:224N *03:167, 03:346 *03:43:01-03:43:02, 03:119:01- 03:119:02, 03:132, 03:175, 03:271	*07:586 <sup>w</sup> <b>B*07:93, B*08:39</b> *07:60, 07:79, 12:58, 14:10, 14:46:02, <b>B*35:101:02</b>
<b>34</b>	130 bp 195 bp 240 bp	1070 bp	*03:54, 03:98 *03:192 *03:53	*12:17
<b>35<sup>4,6</sup></b>	140 bp 200 bp 250 bp	1070 bp	*03:56, 03:214, 03:229N *03:79 *03:244Q	<b>B*44:208</b>
<b>36</b>	160 bp 240 bp	1070 bp	*03:122, 03:206, 03:212, 03:219 *03:50, 03:72	*04:84, 07:167, 07:585, 08:128
<b>37</b>	140 bp	1070 bp	*03:16, 03:21, 03:55, 03:80:01- 03:80:02, 03:92, 03:113:01- 03:113:02, 03:117, 03:161, 03:251, 03:293	*01:97, 04:01:01:01-04:01:04, 04:01:08, 04:01:10-04:01:21, 04:01:23-04:01:25, 04:01:27- 04:01:94, 04:03:01-04:04:01:02, 04:05-04:07:02, 04:09N-04:20, 04:23-04:31, 04:33, 04:35- 04:49, 04:51-04:58, 04:60- 04:76, 04:78-04:84, 04:86- 04:94:01, 04:95N-04:98:02, 04:100-04:146, 04:148-04:159, 04:161-04:174, 04:176, 04:179, 04:180:02-04:211, 04:213- 04:222, 04:223:02-04:233N, 04:235-04:250, 04:252-04:264, 04:266-04:293, 05:148, 06:02:08, 06:34:02, 07:02:32, 07:17:03, 08:01:07, 08:02:07, 08:33:02, 12:02:19, 12:03:20, 12:233, 14:02:01:01- 14:02:01:07, 14:02:03-14:02:11, 14:02:13-14:16, 14:18-14:19, 14:21N-14:24:02, 14:26-14:31, 14:33-14:37, 14:39-14:81, 14:83-14:91, 14:93N-14:96, 16:01:06, 18:01-18:02, 18:04- 18:07N, 18:09-18:10

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot-specific information

<b>38</b> <sup>4,7</sup>	70 bp 105 bp	1070 bp	*03:184:01-03:184:02 *03:52, 03:95, 03:305	*04:43, 04:143, 04:171
<b>39</b> <sup>4</sup>	110 bp  160 bp 195 bp	1070 bp	*03:36, 03:77, 03:187, 03:296:01- 03:296:02  *03:63, 03:145 *03:174, 03:365	*04:34, 04:122, 04:212, 04:265, 14:53, <b>B*13:13:02, B*40:01:49- 40:01:50</b>
<b>40</b> <sup>4</sup>	70 bp  230 bp 260 bp	1070 bp	*03:80:01  *03:126, 03:385 *03:66	*04:201:01, 06:192, 07:330:02, <b>A*68:118, B*08:115</b>
<b>41</b> <sup>4,5</sup>	120 bp 195 bp 295 bp 345 bp	1070 bp	*03:68 *03:100 *03:205 *03:380N	*01:155 *04:161 <sup>w</sup>
<b>42</b> <sup>4</sup>	120 bp 165 bp 195 bp	1070 bp	*03:78 *03:201N *03:192	
<b>43</b> <sup>6</sup>	230 bp	<b>800 bp</b>	*03:74, 03:81, 03:137, 03:175, 03:199, 03:223, 03:245, 03:317, 03:388	<b>B*07:310, B*15:96, B*39:103, B*56:37</b>
<b>44</b> <sup>4</sup>	270 bp 70 bp 160 bp 250 bp	1070 bp	*03:97, 03:153 *03:91:01 *03:75, 03:120, 03:229N *03:244Q	
<b>45</b>	150 bp 255 bp 295 bp	1070 bp	*03:93, 03:206, 03:212 *03:213 *03:76	*04:84, 07:167, 07:585, 08:128
<b>46</b>	150 bp 210 bp	1070 bp	*03:155 *03:58, 03:86, 03:94, 03:99:01- 03:99:02	*08:95, <b>B*35:252, B*39:114</b> *01:02:01:01-01:02:31, 01:02:33-01:03, 01:06-01:07:01, 01:08, 01:10-01:11, 01:13- 01:20, 01:23-01:33, 01:38- 01:48, 01:51-01:54, 01:56N- 01:76, 01:78, 01:80-01:90, 01:92-01:96, 01:98N-01:100, 01:103-01:113, 01:115-01:119, 01:121Q-01:130, 01:132-01:156, 04:37, 05:85, 05:107, 06:204, 14:45, 15:102
<b>47</b> <sup>4</sup>	70 bp  195 bp 240 bp	1070 bp	*03:14, 03:21, 03:55, 03:80:02, 03:92, 03:117, 03:161, 03:361 *03:109 *03:57:01, 03:125, 03:176	*01:65, 04:201:02, 05:86, 07:133, 07:330:01
<b>48</b>	240 bp	1070 bp	*03:57:01-03:57:02	
<b>49</b>	180 bp	1070 bp	*03:146, 03:294	*02:83, 05:01:36, 06:02:03, 06:46N, 07:02:82, 08:01:09, 08:24, 12:172, 12:234, 15:02:30, 15:04:03, 16:90, 17:01:01:02- 17:01:01:05, 17:01:12-17:03:02, 17:05, 17:30, 17:37-17:40
<b>50</b>	215 bp	1070 bp	*03:250, 03:267, 03:318N, 03:382	*04:201:02, 04:212, 05:86
<b>51</b> <sup>4</sup>	120 bp 235 bp	1070 bp	*03:105 *03:303	*08:147

101.611-12 – including *Taq* polymerase, IFU-01  
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Lot-specific information

<b>52</b> <sup>6</sup>	225 bp	1070 bp	*03:311, 03:323N, 03:377N	
<b>53</b>	240 bp 315 bp 345 bp	1070 bp	*03:106 *03:312 *03:380N	*15:151
<b>54</b> <sup>4</sup>	95 bp	1070 bp	*03:316N	
<b>55</b>	260 bp 470 bp	1070 bp	*03:207 *03:211:02	*05:03
<b>56</b>	160 bp 265 bp	1070 bp	*03:145, 03:363N *03:73	
<b>57</b>	470 bp	1070 bp	*03:171, 03:211:01	*04:144, 05:93, 06:73, 08:20, 08:40, 12:109
<b>58</b> <sup>4</sup>	85 bp	1070 bp	*03:02:01-03:11:02, 03:13:01-03:98, 03:100-03:390	*04:01:01:01-04:01:94, 04:03:01-04:20, 04:23-04:225N, 04:227-04:293, 15:43, 17:02, 17:06 <sup>2</sup> -17:16 <sup>2</sup> , 17:18 <sup>2</sup> -17:20 <sup>2</sup> , 17:22 <sup>2</sup> -17:29 <sup>2</sup> , 17:31 <sup>2</sup> -17:36 <sup>2</sup>
<b>59</b> <sup>6</sup>	165 bp	1070 bp	*03:120, 03:184:01-03:184:02, 03:200, 03:229N	
<b>60</b> <sup>4</sup>	70 bp	1070 bp	*03:18:02, 03:64:01, 03:301	*02:08, 12:02:17, 12:03:23, 15:10:02-15:10:03, <b>B*56:01:09</b> , <b>B*58:74</b>
<b>61</b>	215 bp 205 bp	1070 bp	*03:82, 03:85, 03:371 *03:366N	*02:129
<b>62</b>	200 bp	1070 bp	*03:70, 03:127, 03:179, 03:274, 03:277N	*02:131, <b>B*07:234</b> , <b>B*15:315</b> , <b>B*18:126</b> , <b>B*55:30</b>
<b>63</b> <sup>8</sup>	-	-	<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\*03 SSP typings.

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

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

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an 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.

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101.611-12u – without *Taq* polymerase, IFU-02

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<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 7 and 41 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C\*03 primer mixes.

<sup>6</sup>Primer mixes 15, 26, 30, 35, 43, 52 and 59 have a tendency to giving rise to primer oligomer formation.

<sup>7</sup>Primer mixes 20, 28, 32 and 38 may have tendencies of unspecific amplifications.

<sup>8</sup>Primer mix 63 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

‘w’, might be weakly amplified.

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

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Lot-specific information  
**PRIMER SPECIFICATION**

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	280	210	280	275	275	90	110	255	240	245	145	110
						215	185				230	140
											415	260
												305
												590
Length of int. pos. control <sup>1</sup>	800	1070	800	1070	1070	800	1070	1070	1070	800	1070	1070
5'-primer(s) <sup>2</sup>	105	419	105	355	355	413	201	374	105	105	28	126
	5'-gCT 3'	5'-gTC 3'	5'-gCT 3'	5'-TCA 3'	5'-CCC 3'	5'-TgT 3'	5'-CCg 3'	5'-CTA 3'	5'-gCT 3'	5'-gCT 3'	5'-TCA 3'	5'-ggA 3'
		419				539	201	379			485	355
		5'-ATC 3'				5'-gTg 3'	5'-CCg 3'	5'-ACC 3'			5'-CAA 3'	5'-TCA 3'
								379				
								5'-ACT 3'				
3'-primer(s) <sup>3</sup>	343	589	343	589	589	589	270	589	302	307	85	343
	5'-C 3'	5'-CTT 3'	5'-T 3'	5'-CTT 3'	5'-CTT 3'	5'-CTT 3'	5'-TAg 3'	5'-CTT 3'	5'-ggT 3'	5'-CCA 3'	5'-CAg 3'	5'-T 3'
				589			343			312	270	426
				5'-CTT 3'			5'-T 3'			5'-AgT 3'	5'-TAg 3'	5'-TCC 3'
										312	589	452
										5'-AgT 3'	5'-CTT 3'	5'-Cgg 3'
												618
												5'-CT 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	80	70	135	120	100	165	105	160	210	200	90	200
	140	210		150	135	195	250	250	240	255	260	
				250		220		455				
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	1070	1070	800	1070	1070	800	1070	1070
5'-primer(s) <sup>2</sup>	361	105	105	201	19	406	105	19	391	134	367	355
	5'-AgT 3'	5'-gCC 3'	5'-gCT 3'	5'-CCg 3'	5'-CCT 3'	5'-gCA 3'	5'-gCT 3'	5'-CCg 3'	5'-ACA 3'	5'-CCA 3'	5'-TgC 3'	5'-TCA 3'
	419	420		637	363	420	3 <sup>rd</sup> I	86	395	134	368	355
	5'-gTC 3'	5'-TTA 3'		5'-ACA 3'	5'-AgC 3'	5'-TAA 3'	5'-Cgg 3'	5'-CAA 3'	5'-gCA 3'	5'-CCA 3'	5'-gTC 3'	5'-TCC 3'
	419			637	3 <sup>rd</sup> I	436		194	420	3 <sup>rd</sup> I	374	
	5'-ATC 3'			5'-ACT 3'	5'-Cgg 3'	5'-AgA 3'		5'-CgT 3'	5'-TTC 3'	5'-Cgg 3'	5'-CTA 3'	
				730		463		467			539	
				5'-ggA 3'		5'-TgA 3'		5'-CTT 3'			5'-gCg 3'	
				766				637				
				5'-TgA 3'				5'-ACA 3'				
3'-primer(s) <sup>3</sup>	459	134	201	312	70	589	167	97	589	289	589	513
	5'-AgA 3'	5'-AgT 3'	5'-CTC 3'	5'-AgT 3'	5'-ggC 3'	5'-CTT 3'	5'-ACC 3'	5'-gTA 3'	5'-CTT 3'	5'-AgC 3'	5'-CTT 3'	5'-TCT 3'
		589		846	459		307	302		289		514
		5'-CTT 3'		5'-CAC 3'	5'-AgA 3'		5'-CCA 3'	5'-ggC 3'		5'-AgC 3'		5'-CTT 3'
				662			323	589		295		515
				5'-CAC 3'			5'-AgC 3'	5'-CTT 3'		5'-TCA 3'		5'-CCC 3'
							787	846		749		
							5'-TCT 3'	5'-CAC 3'		5'-CCg 3'		
										806		
										5'-CTA 3'		
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

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Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	305	70	80	90	140	150	100	90	110	130	140	160
PCR product	355	105	210	165	170	175	210	185	180	195	200	240
		255	275		285		555		310	240	250	
									365			
Length of int.	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	289	363	105	459	97	105	98	105	343	98	355	133
	5'-Agg 3'	5'-Agg 3'	5'-gCT 3'	5'-gAT 3'	5'-TCg 3'	5'-gCT 3'	5'-CTA 3'	5'-gCT 3'	5'-CCA 3'	5'-CTA 3'	5'-TCA 3'	5'-CCT 3'
	341	385			459	459	421	368	3 <sup>rd</sup> I	459		394
	5'-ggA 3'	5'-ggT 3'			5'-gAT 3'	5'-gAT 3'	5'-ACC 3'	5'-gTg 3'	5'-Cgg 3'	5'-gAT 3'		5'-ggg 3'
		527					530					464
		5'-TgT 3'					5'-ggT 3'					5'-gCC 3'
		560										3 <sup>rd</sup> I
		5'-CgA 3'										5'-Cgg 3'
3'-primer(s) <sup>3</sup>	353	589	134	506	343	231	361	153	363	295	434	343
	5'-TgA 3'	5'-CTT 3'	5'-AgC 3'	5'-Tgg 3'	5'-T 3'	5'-..C 3'	5'-CCA 3'	5'-ACC 3'	5'-ATg 3'	5'-TCC 3'	5'-CCA 3'	5'-T 3'
			142	578	559	235	589	242	419	544	452	589
			5'-TgA 3'	5'-TgA 3'	5'-Cgg 3'	5'-CTT 3'	5'-CTT 3'	5'-CCA 3'	5'-Cgg 3'	5'-ggg 3'	5'-Cgg 3'	5'-CTT 3'
			273	589	583	566		242	662	559	470	704
			5'-TTT 3'	5'-CTC 3'	5'-gTg 3'	5'-CCT 3'		5'-CCT 3'	5'-CAg 3'	5'-Cgg 3'	5'-TCT 3'	5'-CCA 3'
			280	589	594	595		257	728	613	515	719
			5'-CTA 3'	5'-CTC 3'	5'-CCC 3'	5'-CCT 3'		5'-CCT 3'	5'-CCT 3'	5'-gCT 3'	5'-CCC 3'	5'-AgA 3'
			341		595			419			563	
			5'-CgT 3'		5'-CCT 3'			5'-CgA 3'			5'-CgA 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.	140	70	110	70	120	120	230	70	150	150	70	240
PCR product		105	160	230	195	165	270	160	255	210	195	
			195	260	295	195		250	295		240	
					345							
Length of int.	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	459	459	105	28	265	459	104	355	91	194	385	391
	5'-gAT 3'	5'-gAT 3'	5'-gCT 3'	5'-TCA 3'	5'-CgA 3'	5'-gAT 3'	5'-CTT 3'	5'-TCA 3'	5'-ggC 3'	5'-CgT 3'	5'-ggT 3'	5'-ACA 3'
			459	560	3 <sup>rd</sup> I		116		490	368	391	391
			5'-gAT 3'	5'-CAC 3'	5'-Cgg 3'		5'-gCT 3'		5'-CgA 3'	5'-gTg 3'	5'-ACA 3'	5'-ACC 3'
							355		3 <sup>rd</sup> I		434	
							5'-TCT 3'		5'-Cgg 3'		5'-CAg 3'	
							367				560	
							5'-TgC 3'				5'-CAC 3'	
							409					
							5'-ggC 3'					
3'-primer(s) <sup>3</sup>	559	487	221	85	343	538	302	382	343	302	589	589
	5'-CgT 3'	5'-CgT 3'	5'-ACA 3'	5'-CAg 3'	5'-T 3'	5'-CAT 3'	5'-ggC 3'	5'-CCT 3'	5'-T 3'	5'-ggC 3'	5'-CTT 3'	5'-CTT 3'
		518	233	118	746	585	589	470	589	538		
		5'-CCA 3'	5'-CCA 3'	5'-gCA 3'	5'-gAA 3'	5'-AgC 3'	5'-CTT 3'	5'-TCT 3'	5'-CTT 3'	5'-CCg 3'		
		523	257	589	845	613		473	704			
		5'-ACA 3'	5'-CCT 3'	5'-CTT 3'	5'-ACT 3'	5'-gCT 3'		5'-CgA 3'	5'-CCA 3'			
			527		895			476	806			
			5'-CCA 3'		5'-A 3'			5'-CgA 3'	5'-CTA 3'			
								563				
								5'-CgA 3'				
Well No.	37	38	39	40	41	42	43	44	45	46	47	48



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Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product	180	215	120	225	240	95	260	160	470	85	165	70
			235		315		470	265				215
					345							
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	3 <sup>rd</sup> I	412	653	105	3 <sup>rd</sup> I	288	652	105	652	28	355	105
	5'-Cgg 3'	5'-ATA 3'	5'-CgC 3'	5'-gCT 3'	5'-Cgg 3'	5'-..g 3'	5'-CCA 3'	5'-gCT 3'	5'-CCA 3'	5'-TCA 3'	5'-TCA 3'	5'-gCT 3'
		420	766				863				355	
		5'-TAA 3'	5'-TgA 3'				5'-Cgg 3'				5'-TCC 3'	
3'-primer(s) <sup>3</sup>	727	589	846	280	791	343	956	221	956	70	470	134
	5'-CCg 3'	5'-CTT 3'	5'-CAC 3'	5'-CTA 3'	5'-AgA 3'	5'-T 3'	5'-CAG 3'	5'-ACA 3'	5'-CAG 3'	5'-ggC 3'	5'-TCT 3'	5'-AgC 3'
				295	866			225			473	276
				5'-TCg 3'	5'-gCT 3'			5'-ACT 3'			5'-CgA 3'	5'-Cgg 3'
				299	895			328			487	282
				5'-TCC 3'	5'-A 3'			5'-gTC 3'			5'-CgT 3'	5'-gAC 3'
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62
Length of spec. PCR product	205	200
Length of int. pos. control <sup>1</sup>	1070	1070
5'-primer(s) <sup>2</sup>	680	134
	5'-..Tg 3'	5'-CCA 3'
3'-primer(s) <sup>3</sup>	846	295
	5'-CAC 3'	5'-TCA 3'
		299
		5'-TCT 3'
Well No.	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.

101.611-12 – including Taq polymerase, IFU-01  
101.611-12u – without Taq polymerase, IFU-02

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Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*03 SSP subtyping kit <sup>2</sup>																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201675201	201899602	201675203	201675204	201675205	201675206	201675207	201675208	201675209	201899610	201675211	201675212	201899613	201675214	201675215	201675216
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	*07:18		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:29	+	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-
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	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.611-12 – including Taq polymerase, IFU-01  
101.611-12u – without Taq polymerase, IFU-02

Visit <https://labproducts.caredx.com> for  
“Instructions for Use” (IFU)

Lot No.: 1H4

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*03 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.:	201675217	201675218	201675219	201675220	201675221	201899622	201675223	201899624	201675225	201675226	201675227	201675228	201675229	201675230	201675231	201675232
IHCW 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	*07:18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191 CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 1H4

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*03 SSP subtyping kit <sup>2</sup>																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201675233	201675234	201899635	201675236	201675237	201675238	201675239	201675240	201899641	201899642	201675243	201675244	201675245	201675246	201675247	201675248
IHCW 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	*07:18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191	CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot No.: 1H4

Lot-specific information

CELL LINE VALIDATION SHEET																	
HLA-C*03 SSP subtyping kit <sup>2</sup>																	
				Well													
				49	50	51	52	53	54	55	56	57	58	59	60	61	62
				Prod. No.:													
				201675249	201675250	201675251	201899652	201899653	201675254	201675255	201899656	201675257	201899658	201899659	201899660	201899661	201899662
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	*07:18		-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191 CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	*17:03		+	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	+	-	-	-	

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

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Lot No.: **1H4**

#### 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 8, 11, 17 to 21, 23 to 26, 29, 31 to 36, 38 to 45, 47, 48, 50 to 57 and 59 to 62 were available. The specificities of the primers in primer solutions 8, 11, 17 to 19, 21, 23, 25, 26, 29, 31 to 33, 36, 39, 41, 43, 45, 47, 50, 55, 60 and 62 were tested by separately adding one, two or three additional 5'-primers, respectively one, two or four additional 3'-primers. In primer solutions 20, 48, 51, 54, 57 and 61 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 24, 34, 35, 38, 40, 42, 44, 52, 53, 56 and 59 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 2, 7, 8, 13, 16 to 18, 21, 23, 31, 36, 41, 43, 45 to 47, 50 and 55 it was not possible to test one or more of the 5'-primers and in primer solutions 10 to 12, 17, 19, 22, 27 to 30, 32, 33, 36, 39, 41, 45, 60 and 62 one or more 3'-primers were not possible to test. Additional primers in primer solutions 6, 12, 14, 16, 22, 27, 30 and 46 were tested by separately adding additional 5'- and/or 3'-primers.

101.611-12 – including *Taq* polymerase, IFU-01  
101.611-12u – without *Taq* polymerase, IFU-02

Visit <https://labproducts.caredx.com> for  
“Instructions for Use” (IFU)

Lot No.: **1H4**

Lot-specific information

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