

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **04X**

Lot-specific Information  
**Olerup SSP® HLA-C\*07**

Product number:	101.615-24/04 – including <i>Taq</i> pol. 101.615-24u/04u – without <i>Taq</i> pol.
Lot number:	04X
Expiry date:	2017-March-01
Number of tests:	24 tests – Product No. 101.615-24/24u 4 tests – Product No. 101.615-04/04u
Number of wells per test:	86+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. 04X.**

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\*07 Lot (03V)**

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

- Confirmed<sup>1</sup> alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

A well containing Negative Control primer pairs has been added.

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

Nine wells have been added to HLA-C\*07, wells **78 to 87**.

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

The HLA-C\*07 primer set, specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP®* HLA-C\*07 lot was made (**Lot No. 03V**). The kit design is based on IMGT/HLA database 3.16.0.

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

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

Well	5'-primer	3'-primer	rationale
18	-	Added	3'-primer added for the C*07:337 allele.
32	-	Added	3'-primers added for the C*07:134 and 07:189 alleles.
35	-	Modified	3'-primer modified for decreased tendency of primer oligomer formation.
36	Moved	Moved	Primer pair moved to well 84 for decreased tendency of primer oligomer formation.
38	Exchanged, moved	Exchanged, moved	Primer pair exchanged for decreased tendency of primer oligomer formation, primer pair moved to well 86.
41	Added	-	5'-primer added for the C*07:234 allele.
43	-	Added	3'-primer added for the C*07:189 allele.
46	Moved	Moved	Primer pair moved to well 85 for decreased tendency of primer oligomer formation.
47	-	Added	3'-primer added for the C*07:222 allele.
48	-	Added	3'-primer added for the C*07:222 allele.
49	Added	-	5'-primers added for the C*07:259 and C*07:316 alleles.
50	-	-	Exchanged positive control primer pair for decreased tendency of primer oligomer formation.
55	Added	Added	Primer pair added for the C*07:343 allele, 5'-primer added for the C*07:234 allele.
57	Added	-	5'-primer added for the C*07:259 allele.
63	-	Modified, added	3'-primer modified for improved HLA-specific amplification, 3'-primer added for the C*07:301 allele.
64	Added	-	5'-primer added for the C*07:316 allele.
65	-	Modified, added	3'-primer modified for improved HLA-specific amplification, 3'-primer added for the C*07:136 allele.
66	-	Added	3'-primers added for the C*07:136 and C*07:232 alleles.
68	-	Added	3'-primer added for the C*07:242 allele.
70	-	Added	3'-primers added for the C*07:131 and C*07:194 alleles.
71	Added	-	5'-primer added for the C*07:347N allele.
72	Added	-	5'-primer added for the C*07:250 allele.
73	Added	Added	Primer pair added for the C*07:349 allele.
74	-	Added	3'-primer added for the C*07:293 allele.
75	-	Added	3'-primer added for the C*07:329N allele.
77	Added	Added	Negative control moved to well 87, primer pair added for the C*07:348 allele.
78	New	New	New primer pair for the C*07:199:01-07:199:02 alleles.

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79	New	New	New primer pair added for the C*07:256 allele.
80	New	New	New primer pairs added for the C*07:359 and C*07:350N alleles.
81	New	New	New primer pair added for the C*07:231 allele.
82	New	New	New primer pair added for the C*07:288 allele.
83	New	New	New primer pairs added for the C*07:229 and C*07:361 alleles.
84	Added	Added	Primer pair added from well 36.
85	Added	Added	Primer pair added from well 46.
86	Added	Added	Primer pair added from well 38.
87	-	-	Updated negative control added from well 77

Change in revision R01 compared to R00:

1. Primer mix 16 does not amplify the C\*07:25 allele. This has been corrected in the Specificity and Interpretation Tables.

Changes in revision R02 compared to R01:

1. Primer mix 30 does not amplify the C\*07:75 and 07:254 alleles. Thus, this lot of the C\*07 kit cannot distinguish the C\*07:75 and the C\*07:02:01:01-07:02:59, 07:105, 07:114, 07:135, 07:144, 07:146, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193, 07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:221, 07:226, 07:233, 07:239-07:240, 07:244, 07:251, 07:261-07:262, 07:270-07:271, 07:273-07:275, 07:283-07:284, 07:286-07:287, 07:290-07:291, 07:305-07:306, 07:309, 07:312, 07:318-07:322, 07:325-07:327, 07:333-07:334, 07:339-07:341, 07:344-07:346, 07:360, 07:363, 07:368 and 07:372 alleles, nor the C\*07:254 and the C\*07:01:01:01-07:01:04, 07:01:06-07:01:12, 07:01:14-07:01:24, 07:01:26-07:01:35, 07:01:37-07:01:43, 07:103, 07:111, 07:113, 07:115, 07:156, 07:162-07:163, 07:170, 07:182, 07:188, 07:190, 07:197, 07:200-07:201, 07:204, 07:206, 07:214-07:215, 07:219, 07:223, 07:225, 07:228, 07:236-07:237, 07:246, 07:249, 07:253, 07:255, 07:257, 07:266-07:269, 07:276-07:278, 07:280-07:282, 07:296-07:300, 07:303, 07:310-07:311, 07:313, 07:330-07:332, 07:362, 07:366 and 07:369-07:371 alleles. This has been corrected in the Specificity and Interpretation Tables.

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**Lot-specific Information**

Well **87** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP*® HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.  
The PCR product generated by the positive control primer pair is 430 base pairs.

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

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

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

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Lot-specific Information

## PRODUCT DESCRIPTION

### HLA-C\*07 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C\*07:01 to HLA-C\*07:374 alleles.

#### PLATE LAYOUT

Each test consists of 87 PCR reactions in a 96 well cut PCR plate. Wells 88 to 96 are empty.

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

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

Well No. 1 is marked with the Lot No. ‘04X’.

Wells 1 to 86 – HLA-C\*07 high resolution primers.

Well 87 – 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\*07 alleles will be amplified by primer mixes 2, 3, 6, 8 to 14, 16 to 18, 20, 22, 26, 27, 30, 32, 36, 37, 40, 45, 49, 55, 57, 58, 60, 61, 64, 68, 71 to 73, 77, 78, 80, 81 and 84. In addition, a few HLA-A and HLA-B alleles will be amplified by primer mixes 2, 4, 6 to 8, 10 to 12, 14, 16, 18, 20, 22, 24, 25, 27, 32, 37, 42, 45, 50, 53 to 56, 58 to 60, 62, 71 to 73, 77 and 84.

For further details see Specificity Table.

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### UNIQUELY IDENTIFIED ALLELES

All the HLA-C\*07 alleles, i.e. **C\*07:01 to C\*07:374**, recognized by the HLA Nomenclature Committee in April 2014<sup>1,2</sup> will be amplified by the primers in the HLA-C\*07 SSP kit.

The HLA-C\*07 kit enables separation of the confirmed HLA-C\*07 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-C\*07 alleles is listed below.

The HLA-C\*07 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

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

Alleles	Primer mix	Alleles	Primer mix
C*07:29, 07:347N	71	C*07:118, 07:203	52
C*07:51, 07:314, 07:351	19	C*07:125, 07:374	54
C*07:52, 07:337	18	C*07:129, 07:153	54
C*07:61N, 07:194	70	C*07:132, 07:179	55
C*07:74, 07:308	39	C*07:147, 07:241	60
C*07:78, 02:235Q	40	C*07:164N, 07:212	58
C*07:93, 07:207	42	C*07:165, 07:180	60
C*07:100, 07:161	49	C*07:245, 07:342	45
C*07:104N, 07:119, 07:124	50	C*07:350N, 07:359	80
C*07:117, 07:126	51		

The HLA-C\*07 subtyping kit cannot distinguish the following silent mutations: the C\*07:01:01:01-07:01:04, 07:01:06-07:01:12, 07:01:14-07:01:24, 07:01:26-07:01:35 and 07:01:37-07:01:43 alleles, the C\*07:01:05 and 07:01:36 alleles, the C\*07:02:01:01-07:02:59 alleles, the C\*07:04:01-07:04:09, the C\*07:17:01-07:17:02, the C\*07:27:01-07:27:02, the C\*07:31:01-07:31:02, the C\*07:38:01-07:38:02, the C\*07:56:01-07:56:02, the C\*07:96:01-07:96:02, the C\*07:108:01-07:108:02 alleles, the C\*07:137:01-07:137:02, the C\*07:141:01-07:141:02 alleles, the C\*07:172:01-07:172:02 alleles or the C\*07:199:01-07:199:02 alleles.

<sup>1</sup>HLA-C alleles listed on the IMGT/HLA web page 2014-April-14, release 3.16.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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

<sup>3</sup>This lot of the C\*07 kit cannot distinguish the C\*07:75 and the C\*07:02:01:01-07:02:59, 07:105, 07:114, 07:135, 07:144, 07:146, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193, 07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:221, 07:226, 07:233, 07:239-07:240, 07:244, 07:251, 07:261-07:262, 07:270-07:271, 07:273-07:275, 07:283-07:284, 07:286-07:287, 07:290-07:291, 07:305-07:306, 07:309, 07:312, 07:318-07:322, 07:325-07:327, 07:333-07:334, 07:339-07:341, 07:344-07:346, 07:360, 07:363, 07:368 and 07:372 alleles, nor the C\*07:254 and the C\*07:01:01:01-07:01:04, 07:01:06-07:01:12, 07:01:14-07:01:24, 07:01:26-07:01:35, 07:01:37-07:01:43, 07:103, 07:111, 07:113, 07:115, 07:156, 07:162-07:163, 07:170, 07:182, 07:188, 07:190, 07:197, 07:200-07:201, 07:204, 07:206, 07:214-07:215, 07:219, 07:223,



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07:225, 07:228, 07:236-07:237, 07:246, 07:249, 07:253, 07:255, 07:257, 07:266-07:269, 07:276-07:278, 07:280-07:282, 07:296-07:300, 07:303, 07:310-07:311, 07:313, 07:330-07:332, 07:362, 07:366 and 07:369-07:371 alleles.

**ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
C*07:01:01:01	Confirmed	C*07:02:03	Unconfirmed	C*07:02:53	Unconfirmed	C*07:36	Confirmed
C*07:01:01:02	Unconfirmed	C*07:02:04	Confirmed	C*07:02:54	Unconfirmed	C*07:37	Unconfirmed
C*07:01:02	Confirmed	C*07:02:05	Unconfirmed	C*07:02:55	Unconfirmed	C*07:38:01	Unconfirmed
C*07:01:03	Unconfirmed	C*07:02:06	Confirmed	C*07:02:56	Unconfirmed	C*07:38:02	Unconfirmed
C*07:01:04	Unconfirmed	C*07:02:07	Confirmed	C*07:02:57	Unconfirmed	C*07:39	Confirmed
C*07:01:05	Confirmed	C*07:02:08	Confirmed	C*07:02:58	Unconfirmed	C*07:40	Confirmed
C*07:01:06	Unconfirmed	C*07:02:09	Unconfirmed	C*07:02:59	Unconfirmed	C*07:41	Unconfirmed
C*07:01:07	Confirmed	C*07:02:10	Confirmed	C*07:03	Unconfirmed	C*07:42	Unconfirmed
C*07:01:08	Confirmed	C*07:02:11	Confirmed	C*07:04:01	Confirmed	C*07:43	Confirmed
C*07:01:09	Confirmed	C*07:02:12	Unconfirmed	C*07:04:02	Unconfirmed	C*07:44	Unconfirmed
C*07:01:10	Confirmed	C*07:02:13	Confirmed	C*07:04:03	Unconfirmed	C*07:45	Confirmed
C*07:01:11	Unconfirmed	C*07:02:14	Unconfirmed	C*07:04:04	Unconfirmed	C*07:46	Confirmed
C*07:01:12	Unconfirmed	C*07:02:15	Unconfirmed	C*07:04:05	Unconfirmed	C*07:47	Unconfirmed
C*07:01:13	Unconfirmed	C*07:02:16	Confirmed	C*07:04:06	Confirmed	C*07:48	Confirmed
C*07:01:14	Unconfirmed	C*07:02:17	Confirmed	C*07:04:07	Unconfirmed	C*07:49	Confirmed
C*07:01:15	Confirmed	C*07:02:18	Confirmed	C*07:04:08	Unconfirmed	C*07:50	Unconfirmed
C*07:01:16	Unconfirmed	C*07:02:19	Unconfirmed	C*07:04:09	Unconfirmed	C*07:51	Confirmed
C*07:01:17	Unconfirmed	C*07:02:20	Confirmed	C*07:05	Confirmed	C*07:52	Unconfirmed
C*07:01:18	Confirmed	C*07:02:21	Unconfirmed	C*07:06	Confirmed	C*07:53	Unconfirmed
C*07:01:19	Unconfirmed	C*07:02:22	Unconfirmed	C*07:07	Confirmed	C*07:54	Confirmed
C*07:01:20	Unconfirmed	C*07:02:23	Unconfirmed	C*07:08	Unconfirmed	C*07:55N	Confirmed
C*07:01:21	Unconfirmed	C*07:02:24	Confirmed	C*07:09	Unconfirmed	C*07:56:01	Unconfirmed
C*07:01:22	Unconfirmed	C*07:02:25	Unconfirmed	C*07:10	Confirmed	C*07:56:02	Confirmed
C*07:01:23	Confirmed	C*07:02:26	Unconfirmed	C*07:11	Unconfirmed	C*07:57	Unconfirmed
C*07:01:24	Unconfirmed	C*07:02:27	Unconfirmed	C*07:12	Confirmed	C*07:58	Unconfirmed
C*07:01:25	Unconfirmed	C*07:02:28	Confirmed	C*07:13	Confirmed	C*07:59	Confirmed
C*07:01:26	Unconfirmed	C*07:02:29	Unconfirmed	C*07:14	Unconfirmed	C*07:60	Confirmed
C*07:01:27	Unconfirmed	C*07:02:30	Unconfirmed	C*07:15	Confirmed	C*07:61N	Confirmed
C*07:01:28	Unconfirmed	C*07:02:31	Unconfirmed	C*07:16	Confirmed	C*07:62	Unconfirmed
C*07:01:29	Confirmed	C*07:02:32	Confirmed	C*07:17:01	Confirmed	C*07:63	Unconfirmed
C*07:01:30	Confirmed	C*07:02:33	Unconfirmed	C*07:17:02	Unconfirmed	C*07:64	Unconfirmed
C*07:01:31	Unconfirmed	C*07:02:34	Unconfirmed	C*07:18	Confirmed	C*07:65	Confirmed
C*07:01:32	Unconfirmed	C*07:02:35	Unconfirmed	C*07:19	Confirmed	C*07:66	Confirmed
C*07:01:33	Unconfirmed	C*07:02:36	Unconfirmed	C*07:20	Confirmed	C*07:67	Confirmed
C*07:01:34	Unconfirmed	C*07:02:37	Unconfirmed	C*07:21	Unconfirmed	C*07:68	Confirmed
C*07:01:35	Unconfirmed	C*07:02:38	Unconfirmed	C*07:22	Confirmed	C*07:69	Confirmed
C*07:01:36	Confirmed	C*07:02:39	Confirmed	C*07:23	Unconfirmed	C*07:70	Confirmed
C*07:01:37	Unconfirmed	C*07:02:40	Unconfirmed	C*07:24	Unconfirmed	C*07:71	Unconfirmed
C*07:01:38	Unconfirmed	C*07:02:41	Unconfirmed	C*07:25	Unconfirmed	C*07:72	Confirmed
C*07:01:39	Unconfirmed	C*07:02:42	Unconfirmed	C*07:26	Confirmed	C*07:73	Confirmed
C*07:01:40	Unconfirmed	C*07:02:43	Unconfirmed	C*07:27:01	Unconfirmed	C*07:74	Unconfirmed
C*07:01:41	Unconfirmed	C*07:02:44	Confirmed	C*07:27:02	Confirmed	C*07:75	Confirmed
C*07:01:42	Unconfirmed	C*07:02:45	Unconfirmed	C*07:28	Confirmed	C*07:76:01	Confirmed
C*07:01:43	Unconfirmed	C*07:02:46	Confirmed	C*07:29	Unconfirmed	C*07:76:02	Unconfirmed
C*07:02:01:01	Confirmed	C*07:02:47	Unconfirmed	C*07:30	Unconfirmed	C*07:77	Unconfirmed
C*07:02:01:02	Unconfirmed	C*07:02:48	Unconfirmed	C*07:31:01	Confirmed	C*07:78	Unconfirmed
C*07:02:01:03	Confirmed	C*07:02:49	Confirmed	C*07:31:02	Unconfirmed	C*07:79	Confirmed
C*07:02:01:04	Unconfirmed	C*07:02:50	Unconfirmed	C*07:32N	Confirmed	C*07:80	Confirmed
C*07:02:01:05	Unconfirmed	C*07:02:51	Unconfirmed	C*07:33N	Confirmed	C*07:81	Unconfirmed
C*07:02:02	Unconfirmed	C*07:02:52	Unconfirmed	C*07:35	Confirmed	C*07:82	Unconfirmed



101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **04X**

Lot-specific Information

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
C*07:83	Confirmed	C*07:131	Confirmed	C*07:178	Unconfirmed	C*07:227N	Unconfirmed
C*07:84	Unconfirmed	C*07:132	Confirmed	C*07:179	Confirmed	C*07:228	Unconfirmed
C*07:85	Confirmed	C*07:133	Unconfirmed	C*07:180	Confirmed	C*07:229	Confirmed
C*07:86	Unconfirmed	C*07:134	Confirmed	C*07:181	Unconfirmed	C*07:230	Unconfirmed
C*07:87	Unconfirmed	C*07:135	Unconfirmed	C*07:182	Unconfirmed	C*07:231	Confirmed
C*07:88	Confirmed	C*07:136	Confirmed	C*07:183	Unconfirmed	C*07:232	Confirmed
C*07:89	Confirmed	C*07:137:01	Unconfirmed	C*07:184	Confirmed	C*07:233	Unconfirmed
C*07:90	Confirmed	C*07:137:02	Confirmed	C*07:185	Unconfirmed	C*07:234	Confirmed
C*07:91	Confirmed	C*07:138	Unconfirmed	C*07:186	Confirmed	C*07:235Q	Unconfirmed
C*07:92	Unconfirmed	C*07:139	Unconfirmed	C*07:187	Unconfirmed	C*07:236	Unconfirmed
C*07:93	Confirmed	C*07:140	Confirmed	C*07:188	Unconfirmed	C*07:237	Unconfirmed
C*07:94	Unconfirmed	C*07:141:01	Confirmed	C*07:189	Confirmed	C*07:238	Confirmed
C*07:95	Confirmed	C*07:141:02	Confirmed	C*07:190	Unconfirmed	C*07:239	Unconfirmed
C*07:96:01	Confirmed	C*07:142	Unconfirmed	C*07:191N	Confirmed	C*07:240	Unconfirmed
C*07:96:02	Unconfirmed	C*07:143	Confirmed	C*07:192	Confirmed	C*07:241	Confirmed
C*07:97	Confirmed	C*07:144	Unconfirmed	C*07:193	Unconfirmed	C*07:242	Confirmed
C*07:98N	Unconfirmed	C*07:145	Confirmed	C*07:194	Confirmed	C*07:243	Confirmed
C*07:99	Unconfirmed	C*07:146	Unconfirmed	C*07:195	Unconfirmed	C*07:244	Unconfirmed
C*07:100	Confirmed	C*07:147	Confirmed	C*07:196	Confirmed	C*07:245	Unconfirmed
C*07:101	Confirmed	C*07:148	Confirmed	C*07:197	Unconfirmed	C*07:246	Unconfirmed
C*07:102	Confirmed	C*07:149	Confirmed	C*07:198N	Confirmed	C*07:247	Unconfirmed
C*07:103	Unconfirmed	C*07:150Q	Unconfirmed	C*07:199:01	Unconfirmed	C*07:248	Confirmed
C*07:104N	Confirmed	C*07:151	Confirmed	C*07:199:02	Confirmed	C*07:249	Unconfirmed
C*07:105	Unconfirmed	C*07:152N	Unconfirmed	C*07:200	Unconfirmed	C*07:250	Confirmed
C*07:106	Confirmed	C*07:153	Confirmed	C*07:201	Unconfirmed	C*07:251	Unconfirmed
C*07:107	Unconfirmed	C*07:154	Confirmed	C*07:202	Confirmed	C*07:252	Confirmed
C*07:108:01	Confirmed	C*07:155	Confirmed	C*07:203	Confirmed	C*07:253	Unconfirmed
C*07:108:02	Unconfirmed	C*07:156	Unconfirmed	C*07:204	Unconfirmed	C*07:254	Confirmed
C*07:109	Confirmed	C*07:157	Unconfirmed	C*07:205	Confirmed	C*07:255	Unconfirmed
C*07:110	Unconfirmed	C*07:158	Unconfirmed	C*07:206	Unconfirmed	C*07:256	Confirmed
C*07:111	Unconfirmed	C*07:159	Unconfirmed	C*07:207	Confirmed	C*07:257	Unconfirmed
C*07:112	Confirmed	C*07:160	Unconfirmed	C*07:208	Unconfirmed	C*07:258	Unconfirmed
C*07:113	Unconfirmed	C*07:161	Unconfirmed	C*07:209	Unconfirmed	C*07:259	Confirmed
C*07:114	Unconfirmed	C*07:162	Unconfirmed	C*07:210	Unconfirmed	C*07:260	Unconfirmed
C*07:115	Unconfirmed	C*07:163	Unconfirmed	C*07:211	Unconfirmed	C*07:261	Unconfirmed
C*07:116	Confirmed	C*07:164N	Unconfirmed	C*07:212	Confirmed	C*07:262	Unconfirmed
C*07:117	Confirmed	C*07:165	Confirmed	C*07:213	Unconfirmed	C*07:263	Unconfirmed
C*07:118	Confirmed	C*07:166	Unconfirmed	C*07:214	Unconfirmed	C*07:264N	Confirmed
C*07:119	Confirmed	C*07:167	Unconfirmed	C*07:215	Unconfirmed	C*07:265	Unconfirmed
C*07:120	Confirmed	C*07:168	Unconfirmed	C*07:216	Unconfirmed	C*07:266	Unconfirmed
C*07:121Q	Confirmed	C*07:169	Unconfirmed	C*07:217	Unconfirmed	C*07:267	Unconfirmed
C*07:122	Confirmed	C*07:170	Unconfirmed	C*07:218	Confirmed	C*07:268	Unconfirmed
C*07:123	Confirmed	C*07:171	Confirmed	C*07:219	Unconfirmed	C*07:269	Unconfirmed
C*07:124	Confirmed	C*07:172:01	Confirmed	C*07:220	Unconfirmed	C*07:270	Unconfirmed
C*07:125	Confirmed	C*07:172:02	Unconfirmed	C*07:221	Unconfirmed	C*07:271	Unconfirmed
C*07:126	Confirmed	C*07:173	Confirmed	C*07:222	Confirmed	C*07:272	Unconfirmed
C*07:127	Confirmed	C*07:174	Unconfirmed	C*07:223	Unconfirmed	C*07:273	Unconfirmed
C*07:128	Unconfirmed	C*07:175	Unconfirmed	C*07:224	Confirmed	C*07:274	Unconfirmed
C*07:129	Confirmed	C*07:176	Confirmed	C*07:225	Unconfirmed	C*07:275	Unconfirmed
C*07:130	Confirmed	C*07:177	Unconfirmed	C*07:226	Unconfirmed	C*07:276	Unconfirmed



101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **04X**

Lot-specific Information

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
C*07:277	Unconfirmed	C*07:308	Unconfirmed	C*07:338	Unconfirmed	C*07:368	Unconfirmed
C*07:278	Unconfirmed	C*07:309	Unconfirmed	C*07:339	Unconfirmed	C*07:369	Unconfirmed
<b>C*07:279</b>	<b>Confirmed</b>	C*07:310	Unconfirmed	C*07:340	Unconfirmed	C*07:370	Unconfirmed
C*07:280	Unconfirmed	C*07:311	Unconfirmed	C*07:341	Unconfirmed	C*07:371	Unconfirmed
C*07:281	Unconfirmed	C*07:312	Unconfirmed	C*07:342	Unconfirmed	C*07:372	Unconfirmed
C*07:282	Unconfirmed	C*07:313	Unconfirmed	C*07:343	Unconfirmed	C*07:373	Unconfirmed
C*07:283	Unconfirmed	<b>C*07:314</b>	<b>Confirmed</b>	C*07:344	Unconfirmed	C*07:374	Unconfirmed
C*07:284	Unconfirmed	C*07:315	Unconfirmed	C*07:345	Unconfirmed	C*07:368	Unconfirmed
<b>C*07:285</b>	<b>Confirmed</b>	C*07:316	Unconfirmed	C*07:346	Unconfirmed	C*07:369	Unconfirmed
C*07:286	Unconfirmed	C*07:317	Unconfirmed	C*07:347N	Unconfirmed	C*07:370	Unconfirmed
C*07:287	Unconfirmed	C*07:318	Unconfirmed	C*07:348	Unconfirmed	C*07:371	Unconfirmed
<b>C*07:288</b>	<b>Confirmed</b>	C*07:319	Unconfirmed	C*07:349	Unconfirmed	C*07:372	Unconfirmed
C*07:289	Unconfirmed	C*07:320	Unconfirmed	C*07:350N	Unconfirmed	C*07:373	Unconfirmed
C*07:290	Unconfirmed	C*07:321	Unconfirmed	C*07:351	Unconfirmed	C*07:374	Unconfirmed
C*07:291	Unconfirmed	C*07:322	Unconfirmed	C*07:352	Unconfirmed	C*07:368	Unconfirmed
C*07:292	Unconfirmed	C*07:323	Unconfirmed	C*07:353	Unconfirmed	C*07:369	Unconfirmed
<b>C*07:293</b>	<b>Confirmed</b>	C*07:324	Unconfirmed	C*07:354	Unconfirmed	C*07:370	Unconfirmed
C*07:294	Unconfirmed	C*07:325	Unconfirmed	C*07:355	Unconfirmed	C*07:371	Unconfirmed
C*07:296	Unconfirmed	C*07:326	Unconfirmed	C*07:356	Unconfirmed	C*07:372	Unconfirmed
C*07:297	Unconfirmed	C*07:327	Unconfirmed	C*07:357	Unconfirmed	C*07:373	Unconfirmed
C*07:298	Unconfirmed	C*07:328	Unconfirmed	C*07:358	Unconfirmed	C*07:374	Unconfirmed
C*07:299	Unconfirmed	C*07:329N	Unconfirmed	C*07:359	Unconfirmed		
C*07:300	Unconfirmed	C*07:330	Unconfirmed	C*07:360	Unconfirmed		
<b>C*07:301</b>	<b>Confirmed</b>	C*07:331	Unconfirmed	<b>C*07:361</b>	<b>Confirmed</b>		
C*07:302	Unconfirmed	C*07:332	Unconfirmed	C*07:362	Unconfirmed		
C*07:303	Unconfirmed	C*07:333	Unconfirmed	C*07:363	Unconfirmed		
C*07:304	Unconfirmed	C*07:334	Unconfirmed	C*07:364	Unconfirmed		
C*07:305	Unconfirmed	C*07:335	Unconfirmed	C*07:365	Unconfirmed		
C*07:306	Unconfirmed	C*07:336	Unconfirmed	C*07:366	Unconfirmed		
<b>C*07:307</b>	<b>Confirmed</b>	C*07:337	Unconfirmed	C*07:367	Unconfirmed		

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2014-April-14, release 3.16.0, [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\*07 homo- and heterozygotes is available upon request.

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information  
**SPECIFICITY TABLE**

**HLA-C\*07 SSP subtyping**

Specificities and sizes of the PCR products of the 86+1 primer mixes used for HLA-C\*07 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-C*07 alleles <sup>3</sup>	Other amplified HLA-Class I alleles <sup>4</sup>
1	245 bp	800 bp	*07:01:01:01-07:02:20, 07:02:22-07:33N, 07:35-07:40, 07:42-07:165, 07:167-07:294, 07:296-07:347N, 07:349-07:374	
	425 bp		*07:01:01:01-07:01:40, 07:01:42-07:02:40, 07:02:42-07:06, 07:08, 07:10-07:33N, 07:35-07:48, 07:50-07:75, 07:77-07:114, 07:116-07:209, 07:211-07:222, 07:224-07:237, 07:239-07:246, 07:248-07:294, 07:296-07:314, 07:316-07:327, 07:329N-07:356, 07:358-07:360, 07:362-07:374	
2	290 bp	800 bp	*07:01:01:01-07:01:04, 07:01:06-07:01:35, 07:01:37-07:01:43, 07:05-07:07, 07:09, 07:14, 07:16, 07:18, 07:20-07:22, 07:24, 07:26-07:28, 07:30-07:31:02, 07:35-07:36, 07:40, 07:43-07:44, 07:52-07:53, 07:55N, 07:58-07:60, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:109, 07:111, 07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:184, 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, 07:222-07:225, 07:227N-07:228, 07:231, 07:235Q-07:237, 07:246-07:249, 07:253-07:257, 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, 07:315, 07:330-07:332, 07:337, 07:343, 07:362, 07:366, 07:369-07:371	*03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 08:72:02, 12:03:10, 15:65, 16:02:11, <b>B*35:01:38</b> , <b>B*35:08:04</b>
3 <sup>5,9</sup>	110 bp	800 bp	*07:01:01:01-07:01:24, 07:01:26-07:01:43, 07:06, 07:09, 07:18-07:22, 07:24, 07:26, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:59, 07:65,	*04:112, 06:44, 15:62, 16:64, 18:05

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **04X**

Lot-specific Information

			07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103- 07:104N, 07:106, 07:108:01-07:108:02, 07:110-07:113, 07:115-07:116, 07:118- 07:120, 07:122, 07:124, 07:128- 07:129, 07:131-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q- 07:151, 07:153, 07:156, 07:162- 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, 07:222-07:225, 07:227N-07:228, 07:230-07:231, 07:235Q-07:237, 07:246-07:250, 07:253-07:257, 07:263, 07:266-07:269, 07:276-07:282, 07:293, 07:296-07:301, 07:303-07:304, 07:310- 07:311, 07:313, 07:317, 07:330- 07:332, 07:337, 07:343, 07:353, 07:362, 07:366, 07:369-07:371	
<b>4</b>	185 bp	1070 bp	*07:02:01:01-07:02:59, 07:10, 07:13, 07:15, 07:19, 07:23, 07:25, 07:29, 07:32N-07:33N, 07:37-07:39, 07:42, 07:46-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:62, 07:64, 07:66-07:68, 07:72, 07:74-07:76:02, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:100, 07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:138, 07:143-07:147, 07:149, 07:152N, 07:154-07:155, 07:157- 07:161, 07:167-07:169, 07:172:01- 07:172:02, 07:174-07:175, 07:178, 07:183, 07:185-07:187, 07:192-07:195, 07:198N, 07:202, 07:208-07:209, 07:211, 07:213, 07:216-07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238-07:241, 07:243- 07:245, 07:251-07:252, 07:259-07:262, 07:264N-07:265, 07:270-07:271, 07:273-07:275, 07:283-07:291, 07:302, 07:305-07:306, 07:308-07:309, 07:312, 07:314, 07:316-07:322, 07:325-07:327, 07:333-07:335, 07:339-07:342, 07:344- 07:352, 07:356, 07:359-07:360, 07:363, 07:367-07:368, 07:372-07:374	<b>B*40:60, B*40:245</b>
<b>5<sup>5</sup></b>	70 bp 145 bp 245 bp	<b>800 bp</b>	*07:53, 07:216 *07:57 *07:03	
<b>6<sup>5</sup></b>	100 bp	1070 bp	*07:04:01-07:04:09, 07:11-07:12, 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, 07:328- 07:329N, 07:336, 07:338,	<b>*05:62, B*44:148</b>

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information

			07:354-07:355, 07:357, 07:361, 07:364-07:365	
<b>7</b>	190 bp	1070 bp	*07:05	<b>B*27:36, B*48:21, B*48:26</b>
<b>8</b>	285 bp	1070 bp	*07:45	*02:57, 04:40, 06:123, <b>B*38:23, B*39:73</b>
	505 bp		*07:06, 07:343	
<b>9</b>	215 bp 425 bp	<b>800 bp</b>	*07:33N *07:07, 07:09, 07:49, 07:76:01- 07:76:02, 07:210, 07:238, 07:247, 07:315, 07:328	*06:17, 18:01-18:07N
<b>10</b>	185 bp	1070 bp	*07:08, 07:108:01-07:108:02	*04:58, 04:160, <b>B*40:100</b>
<b>11</b>	280 bp 305 bp	<b>800 bp</b>	*07:24, 07:112, 07:218 *07:10, 07:43, 07:184, 07:196, 07:367	*03:04:19, 03:113, <b>B*35:01:38, B*35:08:04, B*37:04:02, B*57:01:18</b>
<b>12</b>	130 bp	1070 bp	*07:12, 07:41	*04:120, 05:01:01:01- 05:01:26, 05:03-05:08, 05:10-05:16, 05:18:01- 05:22:02, 05:24-05:48N, 05:50-05:51Q, 05:53- 05:61, 05:63-05:94, 05:96-05:102, 06:129, 08:01:01-08:06, 08:08:01- 08:14, 08:16:01-08:46, 08:48-08:50, 08:52N- 08:63, 08:65-08:71, 08:73-08:75, 08:77-08:83, 08:85-08:103, 08:105- 08:106, <b>A*29:10, B*14:32, B*18:83, B*44:148</b>
<b>13<sup>5,7</sup></b>	85 bp	1070 bp	*07:11, 07:56:01-07:56:02, 07:60, 07:79, 07:109	*03:69, 04:27, 04:52, 06:53:01-06:53:02, 12:58
<b>14</b>	240 bp	<b>800 bp</b>	*07:13, 07:28, 07:289	*04:01:43, 05:01:17, 05:09:02, 05:17, 08:15:02, 08:72:02, <b>B*37:04:02</b>
<b>15<sup>5</sup></b>	80 bp 290 bp 460 bp	1070 bp	*07:50 *07:14 *07:89	
<b>16<sup>8</sup></b>	535 bp	1070 bp	*07:02:01:01-07:02:59, 07:04:01-07:05, 07:08, 07:10-07:11, 07:13-07:15, 07:23, 07:27:01-07:27:02, 07:29, 07:31:01-07:33N, 07:37-07:39, 07:42- 07:43, 07:45-07:51, 07:54, 07:56:01- 07:56:02, 07:61N-07:64, 07:66-07:68, 07:72, 07:74-07:76:02, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125- 07:127, 07:130, 07:133, 07:135- 07:139, 07:142-07:147, 07:149, 07:152N, 07:154-07:155, 07:157- 07:161, 07:167-07:169, 07:172:01- 07:172:02, 07:174-07:175,	*01:60, 03:14, 03:162, 03:220, 04:58, 04:160, 05:23, 05:62, 06:118, 08:07, 08:47, 08:104, 12:14:01-12:14:02, 14:17, 17:01:01:01-17:24, <b>B*46:06, B*46:43</b>

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information

			07:177-07:178, 07:181, 07:183-07:187, 07:192-07:195, 07:198N-07:199:02, 07:202, 07:208-07:209, 07:211, 07:213, 07:216-07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238-07:241, 07:243-07:245, 07:251- 07:252, 07:258-07:262, 07:264N- 07:265, 07:270-07:275, 07:283-07:291, 07:294, 07:302, 07:305-07:306, 07:308-07:309, 07:312, 07:314-07:316, 07:318-07:329N, 07:333-07:336, 07:338-07:342, 07:344-07:352, 07:354- 07:361, 07:363-07:365, 07:367-07:368, 07:372-07:374	
17 <sup>7</sup>	130 bp	1070 bp	*07:04:01-07:04:09, 07:11, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:260, 07:272, 07:302, 07:323-07:324, 07:328- 07:329N, 07:336, 07:338, 07:354- 07:355, 07:357-07:358, 07:361, 07:364-07:365	*05:23, 05:62, 08:07, 08:47, 08:104
18 <sup>5</sup>	120 bp 230 bp	800 bp	*07:52, 07:243 *07:15, 07:337	*05:03 *02:77, <b>B*07:77,</b> <b>B*07:193, B*40:60,</b> <b>B*40:245</b>
19	220 bp 465 bp	800 bp	*07:26, 07:92, 07:96:01-07:96:02, 07:314, 07:317, 07:351 *07:07, 07:16, 07:51, 07:177, 07:181, 07:328, 07:367	
20 <sup>7</sup>	145 bp  170 bp 195 bp	1070 bp	*07:03, 07:17:01-07:17:02, 07:140- 07:141:02, 07:304, 07:307  *07:44, 07:48 *07:81, 07:168	*03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 08:72:02, 12:03:10, 16:02:11, <b>A*30:01:03, A*33:03:09,</b> <b>B*07:33:03, B*08:01:25,</b> <b>B*35:01:38, B*35:08:04,</b> <b>B*37:04:02, B*57:01:18</b>  <b>B*35:01:38, B*35:08:04,</b> <b>B*37:04:02, B*57:01:18</b>
21 <sup>5</sup>	100 bp 225 bp	800 bp	*07:54 *07:06, 07:18-07:19	
22	205 bp 250 bp	800 bp	*07:84 *07:20, 07:96:01-07:96:02, 07:127, 07:263	*02:49, 02:75, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03:01- 04:03:02, 04:06, 04:16, 04:80, 04:147, 04:160, 06:70, 15:25, 15:62, <b>A*01:110, A*11:135</b>
23 <sup>7</sup>	155 bp 185 bp	1070 bp	*07:23 *07:21	
24 <sup>7</sup>	135 bp	1070 bp	*07:25	<b>A*03:01:46, A*24:02:62,</b> <b>A*68:01:12</b>

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Lot-specific Information

<b>25<sup>5</sup></b>	105 bp 150 bp	1070 bp	*07:46, 07:356 *07:30	<b>B*56:08<sup>w</sup>, B*56:14</b>
<b>26<sup>5</sup></b>	100 bp 250 bp 300 bp	1070 bp	*07:32N *07:55N *07:31:01-07:31:02, 07:177	*06:02:23, 12:03:10, 16:02:11
<b>27</b>	130 bp	1070 bp	*07:37, 07:69, 07:176, 07:307	*04:01:43, 05:01:17, 05:09:02, 08:15:02, <b>B*07:33:03, B*35:08:04</b>
<b>28</b>	175 bp 260 bp	<b>800 bp</b>	*07:44 *07:35, 07:47, 07:352	
<b>29</b>	255 bp	1070 bp	*07:36, 07:42, 07:355	
<b>30<sup>5,7</sup></b>	60 bp 260 bp	1070 bp	*07:227N	*04:66
<b>31</b>	415 bp	1070 bp	*07:39-07:40, 07:177, 07:210 <sup>w</sup> , 07:238 <sup>w</sup> , 07:328 <sup>w</sup> , 07:335	
<b>32<sup>5</sup></b>	115 bp 155 bp 245 bp	1070 bp	*07:134 *07:189 *07:07, 07:09, 07:49, 07:76:01- 07:76:02, 07:210, 07:238, 07:247, 07:315, 07:328	*06:29  *02:14, 04:42, 05:43, 06:02:01:01-06:02:01:03, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:31, 06:02:33-06:02:38, 06:04- 06:10, 06:12-06:51, 06:53:01-06:75, 06:78- 06:121, 06:123, 06:125- 06:131, 15:23, 15:63, 17:20, 18:01-18:07N, <b>B*08:17, B*08:47</b>
	285 bp		*07:60, 07:79	*03:39, 03:67, <b>B*08:39</b>
<b>33</b>	205 bp 230 bp	1070 bp	*07:66 *07:82	
<b>34<sup>5,7</sup></b>	105 bp 270 bp	1070 bp	*07:67 *07:70	
<b>35</b>	320 bp 360 bp	1070 bp	*07:72 *07:71	
<b>36</b>	265 bp	<b>800 bp</b>	*07:20, 07:64, 07:73, 07:92, 07:96:01- 07:96:02, 07:172:01-07:172:02	*18:04
<b>37<sup>7</sup></b>	225 bp 265 bp	1070 bp	*07:121Q *07:38:01-07:38:02, 07:63, 07:68, 07:260, 07:302	*08:38, <b>B*07:77,</b> <b>B*07:193, B*40:60,</b> <b>B*40:245</b>
<b>38<sup>6</sup></b>	135 bp	1070 bp	*07:65	
<b>39<sup>5</sup></b>	100 bp 195 bp 255 bp	<b>800 bp</b>	*07:74 *07:308 *07:59	
<b>40<sup>5,7</sup></b>	120 bp 205 bp 440 bp	1070 bp	*07:235Q *07:62 *07:07, 07:09, 07:76:01-07:76:02, 07:78, 07:315, 07:328	*06:17, 18:01-18:07N
<b>41</b>	140 bp 170 bp 255 bp	1070 bp	*07:91 *07:234 *07:88	



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Lot-specific Information

<b>42<sup>5</sup></b>	100 bp 205 bp 250 bp	1070 bp	*07:15, 07:207 *07:77, 07:93 *07:123, 07:173, 07:294	<b>B*07:33:03</b>  <b>B*07:33:03, B*08:01:25, B*35:01:38, B*35:08:04, B*57:01:18</b>
<b>43<sup>5,6</sup></b>	105 bp 140 bp 165 bp	<b>800 bp</b>	*07:94, 07:183 *07:99 *07:80, 07:189	
<b>44</b>	165 bp 195 bp	1070 bp	*07:98N *07:65, 07:77	
<b>45<sup>7</sup></b>	240 bp 475 bp	1070 bp	*07:245 *07:95, 07:342	*04:34, 04:122, <b>B*35:178, B*73:01-73:02</b>
<b>46<sup>6</sup></b>	315 bp 350 bp 420 bp	1070 bp	*07:202 *07:90 *07:152N	
<b>47<sup>6</sup></b>	200 bp 255 bp 420 bp 455 bp	1070 bp	*07:86 *07:222 *07:152N *07:97	
<b>48</b>	155 bp 220 bp 255 bp 400 bp	1070 bp	*07:122, 07:373 *07:87 *07:222 *07:85	
<b>49</b>	155 bp  230 bp	<b>800 bp</b>	*07:101, 07:148, 07:161  *07:100, 07:259, 07:316, 07:338	*04:129, 05:42, 05:46, 06:67, 08:05, 08:21, 17:05 *01:17, 01:21, 01:23
<b>50<sup>5</sup></b>	105 bp 170 bp 425 bp	<b>800 bp</b>	*07:104N *07:119 *07:124, 07:155	<b>B*15:272N</b> <b>B*07:87, B*27:55</b>
<b>51<sup>5</sup></b>	65 bp 235 bp 285 bp	1070 bp	*07:126 *07:121Q *07:117	
<b>52<sup>5</sup></b>	65 bp 205 bp 280 bp	1070 bp	*07:203 *07:118 *07:106	
<b>53<sup>5</sup></b>	110 bp 155 bp	1070 bp	*07:140, 07:151, 07:154 *07:122, 07:373	<b>B*08:01:25, B*37:04:02</b>
<b>54<sup>5</sup></b>	120 bp 235 bp 340 bp 370 bp	1070 bp	*07:153, 07:324 *07:64, 07:374 *07:125, 07:356 *07:129	<b>B*51:142</b>
<b>55</b>	160 bp 210 bp 290 bp 530 bp	1070 bp	*07:179, 07:234 *07:252 *07:132 *07:343	*06:07 <b>A*11:179</b>
<b>56</b>	210 bp 255 bp	1070 bp	*07:150Q *07:123, 07:143, 07:173, 07:294	<b>B*07:33:03, B*08:01:25, B*35:01:38, B*35:08:04, B*57:01:18</b>
<b>57<sup>5</sup></b>	70 bp 175 bp  230 bp	<b>800 bp</b>	*07:01:25 *07:130	*05:01:17, 05:09:02, 05:17, 08:15:02 *07:259

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<b>58<sup>5</sup></b>	80 bp	1070 bp	*07:137:01-07:137:02 *07:186, 07:212, 07:265 *07:164N	*03:162, 03:220, <b>B*38:43, B*49:29</b>
<b>59</b>	450 bp 200 bp	1070 bp	*07:81, 07:145, 07:168, 07:191N	<b>B*35:01:38, B*35:08:04, B*37:04:02, B*57:01:18</b>
<b>60</b>	130 bp	1070 bp	*07:165, 07:241, 07:265, 07:304, 07:307	*03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 06:02:23, 08:15:02, 12:03:10, <b>B*07:33:03</b>
<b>61</b>	305 bp 370 bp 245 bp 405 bp	1070 bp	*07:147 *07:180 *07:120	*14:65
<b>62</b>	200 bp 280 bp	1070 bp	*07:84, 07:205 *07:106	<b>A*26:101</b>
<b>63</b>	270 bp 320 bp	<b>800 bp</b>	*07:24, 07:218, 07:301 *07:198N, 07:202	
<b>64</b>	135 bp 230 bp	1070 bp	*07:69 *07:192, 07:316, 07:338	*01:17, 01:21, 01:23
<b>65<sup>7</sup></b>	150 bp	1070 bp	*07:136, 07:264N	
<b>66<sup>7</sup></b>	150 bp 180 bp 225 bp	1070 bp	*07:136 *07:128, 07:232 *07:279	
<b>67</b>	180 bp	1070 bp	*07:285	
<b>68</b>	230 bp 260 bp	1070 bp	*07:149 *07:133, 07:242	*03:178
<b>69</b>	185 bp	1070 bp	*07:171	
<b>70<sup>7</sup></b>	220 bp 405 bp	1070 bp	*07:131, 07:194 *07:61N	
<b>71<sup>5</sup></b>	120 bp 240 bp	1070 bp	*07:347N *07:29, 07:177, 07:184, 07:248	*03:04:19, 03:113, <b>B*07:33:03</b>
<b>72<sup>5</sup></b>	120 bp 290 bp	1070 bp	*07:22, 07:137:01-07:138 *07:250	*06:02:23, 12:03:10, <b>A*33:03:09, A*68:01:12</b>
<b>73</b>	185 bp	1070 bp	*07:107, 07:224, 07:349	*06:22, 16:31, <b>B*15:193</b>
<b>74<sup>7</sup></b>	210 bp 355 bp	1070 bp	*07:33N, 07:293 *07:80	
<b>75</b>	140 bp	1070 bp	*07:116, 07:329N	
<b>76</b>	280 bp	1070 bp	*07:102	
<b>77<sup>7</sup></b>	240 bp	1070 bp	*07:166, 07:220, 07:348	*03:211:02, <b>B*73:01-73:02</b>
<b>78</b>	435 bp	1070 bp	*07:01:13, 07:68, 07:76:02, 07:199:01-07:199:02	*02:02:13, 06:101 <sup>w</sup> , 06:127, 12:02:11, 18:01 <sup>w</sup> -18:04 <sup>w</sup> , 18:06 <sup>w</sup> -18:07N <sup>w</sup>
<b>79</b>	375 bp	1070 bp	*07:256	
<b>80</b>	155 bp 315 bp	1070 bp	*07:350N *07:316, 07:359	*06:111
<b>81</b>	150 bp	1070 bp	*07:231	*16:10
<b>82</b>	170 bp	1070 bp	*07:288	

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Lot-specific Information

Lot No.	Product	Product	Product	Product
83 <sup>7</sup>	200 bp	1070 bp	*07:229	
	250 bp		*07:361	
84	185 bp	1070 bp	*07:107, 07:224	*06:22, 16:31, <b>B*15:193</b>
85	200 bp	1070 bp	*07:83	
86	135 bp	1070 bp	*07:58	
87 <sup>10</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\*07 SSP typings.

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

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

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>For several HLA Class I alleles 1<sup>st</sup> and/or 4<sup>th</sup> exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-C alleles, non-HLA-C\*07 alleles will be amplified by primer mixes 2, 3, 6, 8 to 14, 16 to 18, 20, 22, 26, 27, 30, 32, 36, 37, 40, 45, 49, 55, 57, 58, 60, 61, 64, 68, 71 to 73, 77, 78, 80, 81 and 84. In addition, a few HLA-A and HLA-B alleles will be amplified by primer mixes 2, 4, 6 to 8, 10 to 12, 14, 16, 18, 20, 22, 24, 25, 27, 32, 37, 42, 45, 50, 53 to 56, 58 to 60, 62, 71 to 73, 77 and 84.

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

<sup>6</sup>Primer mixes 38, 43, 46 and 47 have a tendency to giving rise to primer oligomer formation.

<sup>7</sup>Primer mixes 13, 17, 20, 23, 24, 30, 34, 37, 40, 45, 65, 66, 70, 74, 77 and 83 may have tendencies of unspecific amplifications, most pronounced in primer mix 77.

<sup>8</sup>Primer mix 16 may give rise to a lower yield of HLA-specific PCR product than the other C\*07 primer mixes.

<sup>9</sup>In primer mix 3 the positive control band may be weaker than for other HLA-C\*07 primer mixes.

<sup>10</sup>Primer mix 87 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

'w', might be weakly amplified.

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Lot No.: **04X**

Lot-specific Information

### PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	245	290	110	185	70	100	190	285	215	185	280	130
	425				145			505	425		305	
					245							
Length of int. pos. control <sup>1</sup>	800	800	800	1070	800	1070	1070	1070	800	1070	800	1070
5'-primer(s) <sup>2</sup>	47	368	270	368	47	540	363	355	47	368	355	512
	5'-Agg 3'	5'-gTA 3'	5'-AAC 3'	5'-gTC 3'	5'-Agg 3'	5'-gAC 3'	5'-AAT 3'	5'-CCT 3'	5'-Agg 3'	5'-gTT 3'	5'-TCA 3'	5'-gTg 3'
	648			368	512			992			365	
	5'-CAC 3'			5'-gTC 3'	5'-gTT 3'			5'-TAA 3'			5'-gAC 3'	
											385	
											5'-ggT 3'	
3'-primer(s) <sup>3</sup>	302	618	341	512	121	601	512	601	90	512	618	601
	5'-ggC 3'	5'-CT 3'	5'-CgT 3'	5'-CCA 3'	5'-ggC 3'	5'-CTT 3'	5'-CCA 3'	5'-CTC 3'	5'-Ag 3'	5'-CCA 3'	5'-CT 3'	5'-CTT 3'
	853				539			1016	302			
	5'-CAT 3'				5'-TCT 3'			5'-CAC 3'	5'-ggT 3'			
					616							
					5'-CgT 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	85	240	80	535	130	120	220	145	100	205	155	135
			290					230	465	170	225	250
			460						195			
Length of int. pos. control <sup>1</sup>	1070	800	1070	1070	1070	800	800	1070	800	800	1070	1070
5'-primer(s) <sup>2</sup>	289	419	47	270	512	368	47	463	368	134	199	524
	5'-Agg 3'	5'-gTT 3'	5'-Agg 3'	5'-AAg 3'	5'-gTT 3'	5'-gTC 3'	5'-Agg 3'	5'-TgA 3'	5'-gTC 3'	5'-CCA 3'	5'-gTT 3'	5'-CCA 3'
	1049		369			3 <sup>rd</sup> I		486	5 <sup>th</sup> I	176	504	
	5'-g 3'		5'-TAC 3'			5'-Cgg 3'		5'-TAC 3'	5'-gTC 3'	5'-gCC 3'	5'-CAC 3'	
			1049					490				
			5'-C 3'					5'-CgA 3'				
								512				
								5'-gTg 3'				
3'-primer(s) <sup>3</sup>	343	618	337	512	601	445	97	618	427	341	341	618
	5'-T 3'	5'-CT 3'	5'-CTT 3'	5'-CCA 3'	5'-CTT 3'	5'-ggA 3'	5'-gTA 3'	5'-CT 3'	5'-gTg 3'	5'-CgT 3'	5'-CgT 3'	5'-CT 3'
	343		616			559	341		1043		618	
	5'-g 3'		5'-TgT 3'			5'-CTC 3'	5'-Cgg 3'		5'-CAA 3'		5'-CT 3'	
	1087		1087			668						
	5'-AgC 3'		5'-AgT 3'			5'-TgA 3'						
						779						
						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. PCR product	105	100	130	175	255	60	415	115	205	105	320	265
		300				260		155	230	270	360	
								245				
								285				
Length of int. pos. control <sup>1</sup>	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	800
5'-primer(s) <sup>2</sup>	206	361	193	390	122	124	47	97	431	388	47	47
	5'-AgA 3'	5'-AgT 3'	5'-CCA 3'	5'-gAA 3'	5'-CCA 3'	5'-gCT 3'	5'-Agg 3'	5'-TCg 3'	5'-CgT 3'	5'-CCA 3'	5'-Agg 3'	5'-Agg 3'
	419	411	539	410	410	322			688	554		
	5'-gTC 3'	5'-TAG 3'	5'-gCg 3'	5'-gTg 3'	5'-gTT 3'	5'-gCC 3'			5'-CCA 3'	5'-ggT 3'		
		560		486								
		5'-CAC 3'		5'-TAC 3'								
3'-primer(s) <sup>3</sup>	270	618	289	618	341	341	289	172	618	618	197	142
	5'-TAC 3'	5'-CT 3'	5'-AgC 3'	5'-CT 3'	5'-CgT 3'	5'-CgT 3'	5'-AgT 3'	5'-CAT 3'	5'-CT 3'	5'-CT 3'	5'-gAT 3'	5'-TgC 3'
	527		618		618			212	853		235	
	5'-CCC 3'		5'-CT 3'		5'-CT 3'			5'-gCC 3'	5'-CAT 3'		5'-CTg 3'	
								302				
								5'-ggT 3'				
								341				
								5'-Tgg 3'				
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product	225	135	100	120	140	100	105	165	240	315	200	155
	265		195	205	170	205	140	195	475	350	255	220
			255	440	255	250	165			420	420	255
											455	400
Length of int. pos. control <sup>1</sup>	1070	1070	800	1070	1070	1070	800	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	368	464	125	47	125	409	97	463	341	47	47	47
	5'-gTC 3'	5'-gCT 3'	5'-CgT 3'	5'-Agg 3'	5'-CgA 3'	5'-ggC 3'	5'-TCg 3'	5'-TgT 3'	5'-ggA 3'	5'-Agg 3'	5'-Agg 3'	5'-Agg 3'
	388		697	486	211	445	512	464	652		457	439
	5'-CCT 3'		5'-TCg 3'	5'-ACC 3'	5'-Agg 3'	5'-TCA 3'	5'-gTT 3'	5'-gCT 3'	5'-CCA 3'		5'-AgC 3'	5'-ATC 3'
			794		520	463		493				503
			5'-CTC 3'		5'-CgA 3'	5'-TgT 3'		5'-CTT 3'				5'-CCg 3'
					560							
					5'-CgA 3'							
3'-primer(s) <sup>3</sup>	563	559	341	79	341	618	212	618	527	190	131	131
	5'-CgA 3'	5'-CgT 3'	5'-CgT 3'	5'-gTA 3'	5'-CgT 3'	5'-CT 3'	5'-gCC 3'	5'-CT 3'	5'-CCA 3'	5'-ggT 3'	5'-ggT 3'	5'-ggT 3'
	601		853	312	618		233		853	226	295	275
	5'-CTT 3'		5'-CAT 3'	5'-AgT 3'	5'-CT 3'		5'-CCC 3'		5'-CAT 3'	5'-CAA 3'	5'-TCA 3'	5'-gCC 3'
	603			317			578			295	330	618
	5'-TTg 3'			5'-CgA 3'			5'-TgT 3'			5'-TCA 3'	5'-TgT 3'	5'-CT 3'
				563			613				618	
				5'-Cgg 3'			5'-gCC 3'				5'-CT 3'	
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	155	105	65	65	110	120	160	210	70	80	200	130
PCR product	230	170	235	205	155	235	210	255	175	450		305
		425	285	280		340	290		230			370
						370	530					
Length of int. pos. control <sup>1</sup>	800	800	1070	1070	1070	1070	1070	1070	800	1070	1070	1070
5'-primer(s) <sup>2</sup>	89 5'-gAA 3'	47 5'-Agg 3'	368 5'-gTC 3'	179 5'-gTC 3'	503 5'-CCg 3'	47 5'-Agg 3'	91 5'-ggg 3'	397 5'-gCg 3'	270 5'-AAT 3'	47 5'-Agg 3'	454 5'-ACT 3'	47 5'-Agg 3'
	176 5'-gCA 3'	361 5'-AgA 3'		317 5'-gCA 3'	540 5'-gAC 3'	648 5'-CAC 3'	173 5'-Cgg 3'	409 5'-ggC 3'	485 5'-CAA 3'	512 5'-gTT 3'	463 5'-TgA 3'	527 5'-TgA 3'
	429 5'-gAA 3'			458 5'-ggT 3'	553 5'-TgC 3'		211 5'-Agg 3'	450 5'-CTg 3'			464 5'-gCA 3'	
	440 5'-TTT 3'						232 5'-AgA 3'					
							992 5'-TAA 3'					
3'-primer(s) <sup>3</sup>	289 5'-AgC 3'	299 5'-TCT 3'	394 5'-gCT 3'	341 5'-CgT 3'	618 5'-CT 3'	112 5'-CCA 3'	341 5'-CgT 3'	618 5'-CT 3'	299 5'-TCA 3'	327 5'-TTT 3'	618 5'-CT 3'	180 5'-TCC 3'
	289 5'-AgC 3'	426 5'-TCC 3'	563 5'-CgA 3'	3 <sup>rd</sup> I 5'-CTC 3'		218 5'-gCT 3'	1043 5'-CAg 3'		618 5'-CT 3'	544 5'-ggT 3'		246 5'-TAA 3'
	618 5'-CT 3'	488 5'-CCA 3'	614 5'-CAg 3'			244 5'-CTg 3'				559 5'-CAg 3'		618 5'-CT 3'
						727 5'-CCA 3'						
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	245	200	270	135	150	150	180	230	185	220	120	120
PCR product	405	280	320	230		180		260		405	240	290
						225						
Length of int. pos. control <sup>1</sup>	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	270 5'-AAg 3'	176 5'-gCC 3'	47 5'-Agg 3'	89 5'-gAA 3'	419 5'-gTC 3'	419 5'-gTC 3'	368 5'-gTC 3'	368 5'-gTC 3'	368 5'-gTC 3'	47 5'-Agg 3'	419 5'-gTA 3'	368 5'-gTg 3'
	355 5'-CCC 3'	185 5'-CAA 3'	385 5'-ggT 3'	193 5'-CCA 3'							538 5'-A.C 3'	538 5'-AgT 3'
		458 5'-ggT 3'		368 5'-gTC 3'								544 5'-gAA 3'
3'-primer(s) <sup>3</sup>	385 5'-ggA 3'	341 5'-CgT 3'	146 5'-CCg 3'	289 5'-AgC 3'	530 5'-CCA 3'	530 5'-CCA 3'	505 5'-gCT 3'	557 5'-TgT 3'	512 5'-CAT 3'	85 5'-CAg 3'	618 5'-CT 3'	618 5'-CT 3'
	559 5'-Cgg 3'	3 <sup>rd</sup> I 5'-CTC 3'	190 5'-ggT 3'	550 5'-CAT 3'	535 5'-CTA 3'	556 5'-gCT 3'		589 5'-CTT 3'		100 5'-ggg 3'		
			202 5'-TCA 3'			604 5'-CgC 3'				280 5'-CTA 3'		
			618 5'-CT 3'									
Well No.	61	62	63	64	65	66	67	68	69	70	71	72



101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information

<b>Well No.</b>	<b>73</b>	<b>74</b>	<b>75</b>	<b>76</b>	<b>77</b>	<b>78</b>	<b>79</b>	<b>80</b>	<b>81</b>	<b>82</b>	<b>83</b>	<b>84</b>
<b>Length of spec. PCR product</b>	185	210	140	280	240	435	375	155	150	170	200	185
		355						315			250	
<b>Length of int. pos. control<sup>1</sup></b>	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
<b>5'-primer(s)<sup>2</sup></b>	419	47	512	103	648	213	341	3 <sup>rd</sup> I	418	368	97	419
	5'-gTC 3'	5'-Agg 3'	5'-gTT 3'	5'-CCT 3'	5'-CAC 3'	5'-CCC 3'	5'-ggA 3'	5'-Cgg 3'	5'-Agg 3'	5'-gTC 3'	5'-TCg 3'	5'-gTC 3'
	1018											
	5'-gTg 3'											
<b>3'-primer(s)<sup>3</sup></b>	565	85	610	341	846	355	425	704	527	496	257	565
	5'-CAT 3'	5'-CAC 3'	5'-CTA 3'	5'-CgT 3'	5'-CAC 3'	5'-gAg 3'	5'-CgC 3'	5'-CCg 3'	5'-CCg 3'	5'-gAg 3'	5'-CCT 3'	5'-CAT 3'
	1055	90	614					862			308	
	5'-TgC 3'	5'-Ag 3'	5'-CgT 3'					5'-CTT 3'			5'-gCg 3'	
		233										
		5'-CCC 3'										
<b>Well No.</b>	<b>61</b>	<b>62</b>	<b>63</b>	<b>64</b>	<b>65</b>	<b>66</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>70</b>	<b>71</b>	<b>72</b>

<b>Well No.</b>	<b>85</b>	<b>86</b>
<b>Length of spec. PCR product</b>	200	135
<b>Length of int. pos. control<sup>1</sup></b>	1070	1070
<b>5'-primer(s)<sup>2</sup></b>	458	524
	5'-ggg 3'	5'-CCC 3'
<b>3'-primer(s)<sup>3</sup></b>	618	618
	5'-CT 3'	5'-CT 3'
<b>Well No.</b>	<b>61</b>	<b>62</b>

<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.

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 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.:	201438101	201438102	201438103	201438104	201438105	201438106	201438107	201438108	201438109	201438110	201438111	201438112	201438113	201438114	201438115	201438116
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	*07:01			+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 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.:	201438117	201438118	201438119	201438120	201438121	201438122	201438123	201438124	201438125	201438126	201438127	201438128	201438129	201438130	201438131	201438132
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **04X**

Lot-specific Information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-C*07 SSP subtyping kit<sup>2</sup></b>																				
				<b>Well</b>																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201438133	201438134	201438135	201438136	201438137	201438138	201438139	201438140	201438141	201438142	201438143	201438144	201438145	201438146	201438147	201438148
	<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 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-C*07 SSP subtyping kit<sup>2</sup></b>																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201438149	201438150	201438151	201438152	201438153	201438154	201438155	201438156	201438157	201438158	201438159	201438160	201438161	201438162	201438163	201438164
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information

CELL LINE VALIDATION SHEET																		
HLA-C*07 SSP subtyping kit <sup>2</sup>																		
			Well															
			65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
			Prod. No.:															
			201438165	201438166	201438167	201438168	201438169	201438170	201438171	201438172	201438173	201438174	201438175	201438176	201438177	201438178	201438179	201438180
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **04X**

Lot-specific Information

CELL LINE VALIDATION SHEET											
HLA-C*07 SSP subtyping kit <sup>2</sup>											
					Well						
					81	82	83	84	85	86	87
				Prod. No.:	201438181	201438182	201438183	201438184	201438185	201438186	201438187
	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	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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**Lot No.: 04X**

**Lot-specific Information**

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

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

No DNAs carrying the alleles to be amplified by primer solutions 5, 10, 11, 13 to 15, 18, 19, 23 to 31, 34 to 36, 38, 39, 41 to 44, 46 to 76 and 78 to 86 were available.

The specificities of the primers in primer solutions 5, 10, 11, 13 to 15, 18, 19, 24 to 27, 31, 36, 42 to 44, 47 to 50, 53 to 60, 63, 64, 68, 71, 72, 74, 78, 79 and 81 were tested by separately adding one 5'-primer, respectively one 3'-primer. In primer solutions 35, 46, 51, 61, 65 to 67, 69, 70, 73, 75, 80, 82, 83 and 84 it was only possible to test the 5'-primer, the 3'-primer were not possible to test. In primer solutions 23, 28 to 30, 34, 38, 39, 41, 52, 62, 76, 85 and 86 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 8, 11, 20, 22, 26, 33, 42, 44, 47 to 49, 53, 55 to 57, 59, 63, 71 one or two 5'-primers were not possible to test, and in primer solutions 5, 9, 13, 15, 18, 21, 25, 32, 37, 40, 43, 47, 48, 50, 54, 58, 60, 63, 64, 68 and 74 one or two 3'-primers were not possible to test.

Additional primers in primer solutions 2, 8, 20, 21, 33, 37, 40 and 45 were tested by separately adding either one 5'-primer, one or two 3'-primers.

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Lot No.: **04X**

Lot-specific Information

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