

Lot No.: **95E**

Lot-specific information

## **Olerup SSP<sup>®</sup> HLA-Cw high resolution for frequent alleles**

<b>Product number:</b>	<b>101.707-12u – without <i>Taq</i> polymerase</b>
<b>Lot number:</b>	<b>95E</b>
<b>Expiry date:</b>	<b>2010-September-01</b>
<b>Number of tests:</b>	<b>12</b>
<b>Number of wells per test:</b>	<b>95 + 1</b>
<b>Storage - pre-aliquoted primers:</b>	<b>dark at -20°C</b>
- PCR Master Mix:	<b>-20°C</b>
- Adhesive PCR seals	<b>RT</b>
- Product Insert	<b>RT</b>

**This Product Description is only valid for Lot No. 95E.**

### **CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*<sup>®</sup> HLA-CW HIGH RESOLUTION LOT**

The HLA-Cw high resolution specificity and interpretation tables have been updated for the HLA-Cw alleles described since the previous *Olerup SSP*<sup>®</sup> HLA-Cw\*high resolution lot was made (**Lot No. 07E**).

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

<b>Well</b>	<b>5'-primer</b>	<b>3'-primer</b>	<b>rationale</b>
2	-	Added	Primer added for the Cw*0754 allele.
3	Modified	Modified	5'-primer improved for increased specificity. 3'-primer improved for increased yield of specific PCR product.
6	-	Added	Primer pair added for the Cw*0120 allele.
9	2 added	-	Primers added for the Cw*0221 and *1611 alleles.
11	-	Modified	Primer improved for increased specificity.
15	-	Modified	Primer improved for increased specificity.
21	Added	-	Primer added for the Cw*0350 allele.
24	-	Modified	Primer improved for increased specificity.
32	Added	Added	Primer pair added for the Cw*0348 allele.
33	3 removed	2 removed	Primer pairs moved to vial 37, 59 and 86.

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36	-	Modified	Primer improved for increased specificity.
37	3 added	-	Primers added for the Cw*0519 allele. 2 primers moved to here from vial 33.
43	-	1 added, 1 modified.	Primer added for the Cw*0756 allele. Primer modified for increased specificity.
50	Modified	-	Primer improved for increased specificity.
51	-	Modified	Primer improved for increased specificity.
53	1 added, 1 modified.	Added	Primer pair for the Cw*0816 allele added. Primer improved for increased yield of specific PCR product.
55	Added	-	Primer added for the Cw*0433 allele.
57	Exchanged	-	Primer exchanged for the Cw*0518 allele.
59	1 added, 1 modified.	Added	Primer for the Cw*0432 allele added, primer improved for increased yield of specific PCR product. Primer moved to here from vial 33.
64	Modified	-	Primer improved for increased yield of specific PCR product.
65	Modified	Modified	Primers improved for increased specificity.
75	Added	Added	Primer pair added for the Cw*0757 allele. Changed to the 1070 bp internal control primer pair.
82	-	-	Changed to the 1070 bp internal control primer pair.
86	Added	Added	Primer pair from vial 33.
87	-	Modified	Primer improved for increased specificity.
91	Added	-	Primer added for the Cw*0755N allele.

Changes in revision R02 compared to R01:

1. The HLA-Cw\*0710 is weakly amplified by primer mix 19, this has been corrected in the Specificity and Interpretation Tables.

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Well **96** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP<sup>®</sup> HLA Class I, DRB, DQB1 and DPB1 amplicons as well as the amplicons generated by control primer pairs.

PCR product sizes range from 75 to 430 base pairs.  
The PCR product generated by the control primer pair is 430 base pairs.

Length of PCR product	105	200	105	80	75	80
<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>
	5'-CAC <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-Tg g <sup>3'</sup>	5'-Tg g <sup>3'</sup>	5'-Tg g <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>
	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>
<b>A*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>B*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>Cw*</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>

<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-Cw high resolution for frequent alleles SSP typing

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the Cw\*0102 to Cw\*1803 alleles and will generate unique amplification patterns for all currently recognized HLA-Cw alleles and have good resolution for frequently encountered HLA-Cw genotypes.

#### PLATE LAYOUT

Each HLA-Cw high resolution for frequent alleles test consists of 96 PCR reactions in a 96 well PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	96

The 96 well PCR plate is marked with 'HLA-Cw "HIGH"' in silver/gray ink.

Well No. 1 is marked with the Lot No. '95E'.

The PCR plates are heat-sealed with a PCR-compatible foil.

Wells 1 to 95 - HLA-Cw high resolution primers.

Well 96 – Negative Control.

#### INTERPRETATION

A few HLA-A and HLA-B alleles will be amplified by primer mixes 6, 8, 10, 16, 18, 19, 31, 34, 40, 43, 44, 48, 52, 59, 61, 70, 77, 79, 80 and 81 due to the sharing of sequence motifs between HLA Class I loci.

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### UNIQUELY IDENTIFIED ALLELES

All the HLA-Cw alleles, i.e. **Cw\*0102 to Cw\*1803**, recognized by the HLA Nomenclature Committee in July 2008<sup>1</sup> will be amplified by the primers in the HLA-Cw high resolution for frequent alleles SSP kit and will give rise to unique amplification patterns, with the exceptions that following alleles have the same amplification patterns:

Cw*0106 and Cw*0111	Cw*0424, Cw*0425 and Cw*0426
Cw*0115 and Cw*0120	Cw*0506 and Cw*0515
Cw*0116, Cw*0117, Cw*0118 and Cw*0119	Cw*0514, Cw*0516 and Cw*0519
Cw*0203 and Cw*0218	Cw*0608 and Cw*0613
Cw*0204, Cw*0214 and Cw*0221	Cw*0615 and Cw*0616N
Cw*0205 and Cw*0217	Cw*0703 and Cw*0717
Cw*0306 and Cw*0328	Cw*0715 and Cw*0738
Cw*0309 and Cw*0323	Cw*0722 and Cw*0735
Cw*0321 and Cw*0322Q	Cw*0725 and Cw*0732N
Cw*0337 and Cw*0346	Cw*0730 and Cw*0740
Cw*040401 and Cw*0434	Cw*0733N and Cw*0751
Cw*0407 and Cw*0427	Cw*0737 and Cw*0754
Cw*0408, Cw*0409N and Cw*0430	Cw*0747 and Cw*0748
Cw*041502 and Cw*0417	Cw*1509 and Cw*1519
Cw*0418 and Cw*0419	Cw*1511 and Cw*1517
Cw*0423 and Cw*0431	

<sup>1</sup>HLA-Cw alleles listed on the IMGT/HLA web page 2008-July-11, release 2.22.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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## SPECIFICITY TABLE

### HLA-Cw high resolution for frequent alleles SSP typing

Specificities and sizes of the PCR products of the 95 primer mixes used for HLA-Cw high resolution for frequent alleles SSP typing

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-Cw alleles <sup>3</sup>	Other amplified HLA Class I alleles <sup>4</sup>
<b>1<sup>5</sup></b>	90 bp	<b>800 bp</b>	010201-010205, 0106-0111, 0113-0120, 0122	
<b>2<sup>5</sup></b>	95, 215 bp	1070 bp	0105, 0405, 0737, 0754, 1408, 1606	
<b>3<sup>6</sup></b>	200, 290, 360, 565 bp	1070 bp	0106, 0111, 0706, 0718, 0719, 1513	
<b>4<sup>5</sup></b>	100, 200 bp	1070 bp	0107, 0610, 1609	
<b>5<sup>5,6</sup></b>	150, 210, 300 bp	1070 bp	0108, 0517, 0703, 0717, 0723, 0731, 1213, 1219	
<b>6<sup>5,7</sup></b>	105, 150, 210, 260 bp	<b>800 bp</b>	0104, 0109, 0115, 0120, 0324, 0333, 0705	<b>B*9529, B*2725, B*2736</b>
<b>7</b>	200 bp	1070 bp	020201-020203, 020205-0209, 0211-0222	
<b>8<sup>5</sup></b>	105, 135 bp	<b>800 bp</b>	0203, 0218, 0220, 0607	<b>B*2734, B*400602, B*570302<sup>wea</sup> kly</b>
<b>9<sup>5</sup></b>	140 bp	1070 bp	0204, 0214, 0221, 0605, 1210, 1216, 1611	
<b>10<sup>5,6</sup></b>	105, 130, 270 bp	<b>800 bp</b>	0207, 0746, 0806, 1610	<b>B*5608, B*5614</b>
<b>11<sup>5</sup></b>	75, 155, 505 bp	<b>800 bp</b>	0208, 031101-031102, 0337, 0346, 0416, 0603, 0706, 151002	
<b>12<sup>5</sup></b>	70, 280 bp	<b>800 bp</b>	020201-020203, 020205-0222, 030201-030203, 030401-0310, 0314-0317, 0319, 0323-0329, 0332-033802, 0340-0342, 0344-0348, 0403, 0406, 0416, 0603, 0753, 150201-1509, 151002, 1511, 1513, 1515-1521	
<b>13</b>	220 bp	1070 bp	030201-030203, 0314, 0315, 0333, 0336, 0340, 0342, 0343, 0412	
<b>14</b>	280 bp	<b>800 bp</b>	030301-030305, 031101-0313,	

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			0320N-0322Q, 0330, 0331, 0343, 0349, 0350, 1512	
<b>15</b>	275 bp	1070 bp	030301-030407, 0306-0312, 0314, 0318-0324, 0326, 0328-0332, 0334, 0337-0340, 0342-0350	
<b>16</b>	245, 275 bp	1070 bp	0305, 0313, 0317, 0325, 0327, 0335, 1207, 1217	<b>B*1596</b>
<b>17<sup>5,8</sup></b>	110, 185, 555 bp	1070 bp	030301-030305, 0308, 031101-0313, 0318, 0320N-0322Q, 0329-0331, 0339, 0343, 0349, 0350, 070101-070109, 0706, 0707, 0709, 0716, 0718-0720, 0722, 0724, 0726, 0728, 0730, 0735, 0736, 0740, 0744, 0752, 0753, 0755N-0757, 120304	
<b>18<sup>5</sup></b>	90, 185, 225, 255 bp	1070 bp	0309, 0321-0323, 0342, 0721, 0736	<b>B*1596</b>
<b>19<sup>5</sup></b>	105, 265, 295, 530 bp	1070 bp	0313, 0315, 0332, 0335, 0336, 0345, 0614, 0710 <sup>weakly</sup> , 0743	<b>B*1596</b>
<b>20<sup>7</sup></b>	250 bp	<b>800 bp</b>	0114, 020201 <sup>weakly</sup> , 020202-020203, 020205-0203, 0204 <sup>weakly</sup> , 0205-0213, 0214 <sup>weakly</sup> , 0215-0222, 0307, 0310, 0315, 0329, 0345, 0403, 0406, 0416, 0513, 0603, 150201-1506, 1508, 1509, 151002-1513, 1515-1521	
<b>21</b>	190, 220, 250, 285 bp	<b>800 bp</b>	0330, 0350, 0418, 0419, 0510, 1512	
<b>22<sup>5</sup></b>	80, 140 bp	1070 bp	030201-030203, 0315-0317, 0333, 0336, 0340, 0342, 0343, 140201, 140203-1409	
<b>23<sup>5</sup></b>	150, 240 bp	<b>800 bp</b>	0114, 0307, 0310, 0315, 0329, 0345, 0513, 06020101-06020102, 060203-0604, 0606-0610, 0612-0617, 0707, 0709, 120401, 1701-1704, 1801-1803	
<b>24</b>	250 bp	1070 bp	010201-0121, 020201-020203, 020205-020206, 0204-0215, 0217, 0219-0222, 04010101-040105, 0403, 0405, 0407-0412, 041501-0420, 0423-0433, 050101-050104, 0503-0510, 0512-0516, 0518, 0519, 06020101-06020102, 060203, 0603, 0605-0617, 0802, 0805, 0807, 0812,	

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			0815, 120201-1213, 1215-1217, 1221, 140201-1405, 1407N-1409, 1508, 160401, 1801-1803	
<b>25<sup>5</sup></b>	170 bp	1070 bp	0316, 0341, 04010101-040104, 0403, 040401, 0405-0420, 0423- 0434, 140201, 140203-1409, 1801- 1803	
<b>26<sup>5</sup></b>	145, 170 bp	<b>800 bp</b>	0209, 0407, 0427	
<b>27<sup>5,8</sup></b>	135, 170, 225 bp	1070 bp	0408, 0409N, 0430, 1515	
<b>28</b>	200 bp	<b>800 bp</b>	0413, 0708	
<b>29<sup>5</sup></b>	130, 190, 290 bp	<b>800 bp</b>	0215, 0305, 0325, 0327, 041501, 0714, 1409	
<b>30</b>	155 bp	1070 bp	050101-050104, 0503-0508, 0510, 0511, 0513-0516, 0519, 0741, 0802, 0804, 0805, 0807, 0812, 0813	
<b>31<sup>5</sup></b>	150, 285 bp	<b>800 bp</b>	0113, 0509, 0517, 0745, 0815, 1212	<b>B*1533, B*350802</b>
<b>32<sup>5</sup></b>	120, 180, 210 bp	1070 bp	0348, 0503, 0752, 1607	
<b>33<sup>5</sup></b>	225 bp	1070 bp	0504, 0809, 0811	
<b>34</b>	220, 275 bp	1070 bp	0410, 0411, 0505, 0507N, 0808	<b>A*2910</b>
<b>35</b>	265 bp	1070 bp	050101-050104, 0503, 0504, 0506- 0508, 0510-0516, 0518, 0519, 070401-070402, 0711, 0712, 0741, 080101-0814, 0816	
<b>36<sup>5</sup></b>	90, 120, 160, 210 bp	1070 bp	0306, 0325, 0326, 0328, 0349, 0506, 0515, 0805	
<b>37<sup>5</sup></b>	80, 130, 195, 235, 280 bp	<b>800 bp</b>	0514, 0516, 0519, 070401-070402, 0711, 0750, 0807, 0812	
<b>38</b>	250 bp	<b>800 bp</b>	0315, 0332, 0345, 0403, 0406, 0416, 0720	
<b>39</b>	240 bp	1070 bp	0339, 06020101-06020102, 060203, 0604-0616N, 1216	
<b>40</b>	250 bp	1070 bp	0122, 0203, 0213, 0216, 0218, 040401-040402, 0406, 0413, 0434, 0511, 0517, 0604, 080101-080102, 0803, 0804, 0806, 0808-0811, 0813, 0814, 0816, 1214, 1218, 1220, 1406, 150201-1507, 1509-1513,	<b>B*5802</b>



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1515-1521, 160401, 1701-1704			
<b>41</b>	165 bp	1070 bp	050101-050104, 0503-0519, 0605, 0810, 1221
<b>42</b>	250 bp	1070 bp	010201-0103, 0105-0108, 0110-0120, 0213, 04010101-040105, 0403, 0405, 0407-0412, 041501-0420, 0423-0433, 050101-050104, 0503-0507N, 0509, 0510, 0512-0516, 0518, 0519, 0605, 0606, 0802, 0805, 0807, 0812, 0815, 1209, 140201-1405, 1407N-1409, 1508, 160401, 1801, 1802
<b>43<sup>5</sup></b>	100, 155, 240 bp	1070 bp	0110, 0121, 0205, 0217, 031101-031102, 0339, 0605, 0608, 0613, 0756, 0814, 1216
<b>44<sup>5,6</sup></b>	90, 135, 160 bp	1070 bp	0222, 0320N, 0414, 0508, 0609, 1608, 1704, 1803
<b>45<sup>5,6</sup></b>	140, 255 bp	1070 bp	0347, 0611, 070401-070402, 0711, 0712, 0745, 1211
<b>46</b>	290 bp	<b>800 bp</b>	0517, 070101-070104, 070106-070109, 0705-0707, 0709, 0714, 0716, 0718, 0720-0722, 0724, 0726-0728, 0730, 0731, 0735, 0736, 0740, 0743, 0744, 0752, 0753, 0755N
<b>47<sup>5</sup></b>	110 bp	<b>800 bp</b>	070101-070109, 0706, 0709, 0718-0722, 0724, 0726, 0728, 0730, 0735, 0736, 0740, 0744, 0752, 0753, 0755N, 0757
<b>48</b>	185 bp	1070 bp	07020101-070202, 0710, 0713, 0715, 0719, 0723, 0725, 0729, 0732N, 0733N, 0737-0739, 0742, 0746-0751, 0754, 0756
<b>49<sup>5</sup></b>	85, 130, 170, 250 bp	1070 bp	0424-0426, 0742, 0744
<b>50</b>	240, 425 bp	1070 bp	0617, 0707, 0709, 0729, 0749, 1801-1803
<b>51</b>	240, 275 bp	1070 bp	0116-0119, 0121, 0724
<b>52<sup>5</sup></b>	130 bp	1070 bp	050101-050104, 0503-0508, 0510-0516, 0518, 0519, 0712, 0741, 080101-0806, 0808-0814, 0816
<b>53<sup>5</sup></b>	80, 115, 265 bp	1070 bp	0512, 0711, 0813, 0816
<b>54</b>	395 bp	1070 bp	0617, 07020101-0705, 0708, 0710-

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			0715, 0717, 0723, 0725, 072701-072702, 0729, 0731-0733N, 0737-0739, 0741-0743, 0745-0751, 0754, 0756, 1801-1803	
<b>55</b>	165, 220, 340, 465 bp	<b>800 bp</b>	0112, 0121, 0411, 0433, 0707, 0716, 0726, 0733N, 0751	
<b>56<sup>5</sup></b>	100, 125, 250 bp	<b>800 bp</b>	0722, 0725, 0732N, 0735	
<b>57<sup>5,6</sup></b>	155 bp	1070 bp	0512, 0518, 080101-080102, 0803, 0806, 0808-0811, 0814, 0816	
<b>58<sup>5</sup></b>	110 bp	1070 bp	0803, 0806, 0814	
<b>59<sup>5</sup></b>	110, 150, 230, 275 bp	1070 bp	0211, 0334, 0432, 0715, 0738, 0809, 1407N, 1803	<b>B*4060</b>
<b>60<sup>5</sup></b>	105 bp	1070 bp	050101-050104, 0503-0507N, 0510, 0512-0516, 0518, 0519, 0741, 0802, 0805, 0807, 0812	
<b>61</b>	235 bp	<b>800 bp</b>	0212, 0315, 0327, 033801-033802, 0403, 0406, 0416, 0603, 0726, 0805, 120201-120402, 1206-1208, 1210-1215, 1217-1220, 1503, 1516, 1701-1704	<b>B*0713, B*0715, B*6702</b>
<b>62<sup>5</sup></b>	100 bp	<b>800 bp</b>	0104, 0121, 120201-120203, 1208, 1210, 1216-1218	
<b>63</b>	220 bp	<b>800 bp</b>	0104, 0109, 0205, 0217, 06020101-06020102, 060203, 0603, 0607-0613, 0615-0617, 12030101-1207, 1211-1213, 1215, 160401	
<b>64<sup>5,8</sup></b>	130 bp	1070 bp	020201-020203, 020205-0211, 0213-0222, 0410, 0411, 050101-050104, 0503-0519, 0605, 080101-0804, 0806-0816, 1205, 1209, 1221, 140203, 1403, 1408, 150201-150204, 1504-1513, 1515, 1517-1521, 160101, 160103, 1602, 160401, 1606-1611	
<b>65<sup>5</sup></b>	150, 190, 415 bp	1070 bp	0308, 0329, 0331, 0428, 1206, 1208	
<b>66</b>	155 bp	1070 bp	12030101-12030102, 120303-120306, 120402-1207, 1211-1213, 1215, 1220	
<b>67<sup>5</sup></b>	145 bp	<b>800 bp</b>	140201-140202, 140204, 1404-1407N, 1409	
<b>68<sup>5</sup></b>	145 bp	<b>800 bp</b>	04010101-040105, 040401-0405, 0407-041502, 0417-0420, 0423-	

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			0434, 140203, 1403, 1408	
<b>69</b>	245 bp	<b>800 bp</b>	04010101-040105, 040401-0405, 0407-0410, 0412-041502, 0417- 0420, 0423-0428, 0430-0434, 1404	
<b>70</b>	210 bp	<b>800 bp</b>	04010101-040105, 0403, 0405, 0407-0412, 0416, 0418-0420, 0423- 0433, 140201-1404, 1407N, 1408, 1801, 1802	<b>B*1584</b>
<b>71<sup>5</sup></b>	130 bp	1070 bp	030201-030407, 0306-0313, 0315- 0324, 0326, 0328-0350, 041501- 041502, 0417, 1405, 1409	
<b>72<sup>5,8</sup></b>	110 bp	1070 bp	020201-020203, 020205-0207, 0209-0222, 0403, 0406, 0416, 1403, 150201-1509, 1511-1513, 1515- 1521	
<b>73</b>	210, 330 bp	1070 bp	0206, 0612, 1215, 150201-1503, 150501-1513, 1515-1521	
<b>74<sup>5</sup></b>	90, 175 bp	1070 bp	0103, 0308, 0329, 0331, 0720, 150201-1509, 1512, 1513, 1515, 1518, 1519, 1521	
<b>75<sup>5</sup></b>	145, 195 bp	1070 bp	0212, 0315, 0327, 033801-033802, 0403, 0406, 0416, 0720, 0757, 1503, 1516	
<b>76</b>	320 bp	<b>800 bp</b>	0104, 0121, 020201-020203, 020205-0205, 0208-0218, 0220, 0221, 030201-030203, 0314-0316, 0333, 0336, 0340, 0342, 0343, 0504, 06020101-06020102, 060203- 0608, 0610-0617, 070101-0703, 0705-0710, 0714-072702, 0730- 0733N, 0735-0740, 0742-0744, 0746-0757, 0809, 0811, 120201- 1214, 1216-1221, 140201-1409, 1504, 1509, 1518-1520, 160101- 1602, 160401, 1606-1609, 1611	
<b>77<sup>5,8</sup></b>	100 bp	<b>800 bp</b>	150501-150504	<b>B*4036<sup>weakly</sup>, B*4086<sup>weakly</sup>, B*4807<sup>weakly</sup></b>
<b>78</b>	210, 240, 315, 360 bp	1070 bp	010201-010205, 0105-0120, 0122, 0219, 030301-031102, 0313, 0317, 0318, 0320N-0325, 0327-0332, 0334, 0335, 0337-0339, 0341, 0344- 0350, 0612, 0615, 0616N, 0729, 1506, 1518	
<b>79<sup>5</sup></b>	140 bp	1070 bp	0121, 0212, 0411, 0429, 080101- 0809, 0811-0816, 120201-120303, 120305-120306, 1206-1208, 1210-	<b>B*350802, B*6702</b>

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Lot-specific information

			1220, 140203, 1403, 1408, 1507, 1521, 160101, 160103, 160401, 1606-1608, 1610, 1611	
<b>80<sup>5,7</sup></b>	70, 160, 210 bp	<b>800 bp</b>	0206, 0312, 0319, 0334, 0344, 1215, 1508	<b>B*1318<sup>weakly</sup></b> , <b>B*1573<sup>weakly</sup></b> , <b>B*5410<sup>weakly</sup></b> , <b>B*5509<sup>weakly</sup></b> , <b>B*5521<sup>weakly</sup></b>
<b>81</b>	435 bp	1070 bp	0206, 0312, 0319, 1215, 1511, 1516, 1517	<b>B*4611</b> , <b>B*5608</b> , <b>B*5614</b>
<b>82<sup>8</sup></b>	165 bp	1070 bp	0208, 0318, 04010101-040105, 040401-0405, 0407-041502, 0417-0420, 0423-0434, 050101-050104, 0503-0519, 080101-0813, 0815, 0816, 120201-1215, 1217-1221, 140201-140204, 1404-1409, 151001-151002, 160101-1602, 160401, 1606-1611, 1701-1704	
<b>83</b>	240, 315, 360 bp	<b>800 bp</b>	0206, 0312, 0319, 0615, 0616N, 1215, 150201-1503, 1507, 1508, 151001-1513, 1515-1518, 1521	
<b>84</b>	205 bp	<b>800 bp</b>	160101-1602, 160401, 1608-1611	
<b>85</b>	340 bp	1070 bp	0114, 020201-020203, 020205-0211, 0213-0222, 0307, 0315, 0345, 04010101-040105, 0403-0410, 0412-0420, 0423-0428, 0430-0434, 050101-050104, 0503-0519, 06020101-06020102, 060203-0610, 0612-0617, 0707, 0709, 0749, 0810, 120401-1205, 1209, 1221, 1404, 150201-1506, 1508-1513, 1515-1520, 1602, 1609, 1701-1704, 1801-1803	
<b>86<sup>5</sup></b>	150, 415 bp	1070 bp	0730, 0739, 0740	
<b>87</b>	160 bp	1070 bp	0753, 160101-1602, 1606-1609, 1611	
<b>88<sup>5</sup></b>	85, 195 bp	1070 bp	0423, 0431	
<b>89</b>	345 bp	<b>800 bp</b>	010201-0120, 0122, 030201-0350, 06020101-06020102, 060203-0604, 0606-0616N, 120304, 120401, 140201-140202, 140204, 1404-1407N, 1409, 160102, 1702, 1704 <sup>?</sup>	
<b>90</b>	350 bp	<b>800 bp</b>	1701, 1703, 1704 <sup>?</sup>	

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Lot-specific information

<b>91<sup>5</sup></b>	70, 170, 240, 270 bp	<b>800 bp</b>	0517, 0713, 0728, 0747, 0748, 0755N, 1702, 1704 <sup>?</sup>
<b>92</b>	155, 300 bp	1070 bp	0420, 1703, 1704 <sup>?</sup>
<b>93<sup>5,8</sup></b>	90, 210 bp	1070 bp	1406, 1701, 1704 <sup>?</sup>
<b>94</b>	560 bp	1070 bp	070101-0733N, 0735-0757, 1801, 1803 <sup>?</sup>
<b>95</b>	220 bp	1070 bp	04010101-040105, 0403-0420, 0423-0434, 1802, 1803 <sup>?</sup>

<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-Cw high resolution for frequent alleles SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective length of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

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 two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well numbers 1, 6, 8, 10 to 12, 14, 20, 21, 23, 26, 28, 29, 31, 37, 38, 46, 47, 55, 56, 61 to 63, 67 to 70, 76, 77, 80, 83, 84 and 89 to 91 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the orientation and identification of the HLA-Cw high resolution for frequent alleles SSP typing.

In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>The Cw\*0101, Cw\*0201, Cw\*020204, Cw\*0301, Cw\*0402, Cw\*0421, Cw\*0422, Cw\*0502, Cw\*0601, Cw\*060202, Cw\*0734, Cw\*1101, Cw\*1201, Cw\*1301, Cw\*1401, Cw\*1501, Cw\*1514, Cw\*1603, Cw\*16042 and Cw\*1605 alleles have deleted or renamed.

<sup>4</sup>A few HLA-A and HLA-B alleles will be amplified by primer mixes 6, 8, 10, 16, 18, 19, 31, 34, 40, 43, 44, 48, 52, 59, 61, 70, 77, 79, 80 and 81 due to the sharing of sequence motifs between HLA Class I loci.

<sup>5</sup>Short specific PCR fragments are less intense and not as sharp as longer specific bands.

<sup>6</sup>Primer mix 3, 5, 10, 44, 45 and 57 have a tendency of giving rise to non-specific amplifications.

<sup>7</sup>Primer mixes 6, 20 and 80 have a tendency of giving rise to primer oligomer formation.

<sup>8</sup>Primer mixes 17, 27, 64, 72, 77, 82 and 93 may give rise to less specific PCR product than the other HLA-Cw high resolution primer mixes.











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Lot-specific information

Well No.									1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		
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*041502																																								+			
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Lot No.: 95E

Lot-specific information

4 5 5 5 5 5 5				5 5 5 6 6 6 6				6 6 6 6 7 7 7				7 7 7 7 7 7 8				8 8 8 8 8 8 8				8 9 9 9 9 9 9				Well No.
9 0 1 2 3 4 5 6	7 8 9 0 1 2 3 4	5 6 7 8 9 0 1 2	3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8	9 0 1 2 3 4 5 6	7 8 9 0 1 2 3 4	5 6 7 8 9 0 1 2	3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8	9 0 1 2 3 4 5 6	7 8 9 0 1 2 3 4	5 6 7 8 9 0 1 2	3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8	9 0 1 2 3 4 5 6	7 8 9 0 1 2 3 4 5	Well No.							
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																	*041502							
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Lot No.: 95E

Lot-specific information

Well No.									1				2				3				4																				
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Lot No.: **95E**

Lot-specific information

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4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	Well No.															
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																																																													B*2725, 2736		
																																																													B*2734, 400602		
																																																													B*350802		
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																																																													B*4060		
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																																																															B*5608, 5614
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Lot-specific information

## Primer Table

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
<b>5'-primer(s)<sup>1</sup></b>	<b>368</b>	<b>98</b>	<b>368</b>	<b>142</b>	<b>361</b>	<b>105</b>	<b>703</b>	<b>232</b>	<b>92</b>	<b>206</b>	<b>105</b>	<b>105</b>
	5'-g Tg 3'	5'-C TC 3'	5'-g Tg 3'	5'-TC C 3'	5'-Ag T 3'	5'-gCT 3'	5'-CT A 3'	5'-Ag A 3'	5'-g Tg 3'	5'-A gA 3'	5'-gCT 3'	5'-gCT 3'
		<b>356</b>	<b>757</b>	<b>244</b>	<b>504</b>	<b>363</b>		<b>486</b>	<b>97</b>	<b>2nd I</b>	<b>992</b>	<b>512</b>
		5'-C CC 3'	5'-CC C 3'	5'-Cg C 3'	5'-CAC 3'	5'-AAT 3'		5'-ACA 3'	5'-TC g 3'	5'-C CA 3'	5'-T AA 3'	5'-g TT 3'
		<b>368</b>	<b>956</b>	<b>406</b>	<b>512</b>	<b>368</b>			<b>113</b>			
		5'-g TC 3'	5'-g gT 3'	5'-gC A 3'	5'-g Tg 3'	5'-g Tg 3'			5'-C CA 3'			
									<b>368</b>			
									5'-g TT 3'			
<b>3'-primer(s)<sup>2</sup></b>	<b>419</b>	<b>154</b>	<b>527</b>	<b>302</b>	<b>473</b>	<b>167</b>	<b>861</b>	<b>302</b>	<b>201</b>	<b>270</b>	<b>134</b>	<b>343</b>
	5'-Cg T 3'	5'-CAg 3'	5'-CC A 3'	5'-gg T 3'	5'-CA A 3'	5'-AC C 3'	5'-T Cg 3'	5'-gg T 3'	5'-C TT 3'	5'-T AC 3'	5'-Ag C 3'	5'-C 3'
		<b>427</b>	<b>619</b>	<b>559</b>	<b>523</b>	<b>323</b>		<b>538</b>	<b>477</b>	<b>418</b>	<b>142</b>	<b>539</b>
		5'-gTg 3'	5'-TTT 3'	5'-CgT 3'	5'-ACA 3'	5'-Ag C 3'		5'-CAg 3'	5'-g CA 3'	5'-gTC 3'	5'-T gA 3'	5'-TC T 3'
		<b>538</b>	<b>956</b>		<b>538</b>	<b>479</b>		<b>578</b>		<b>559</b>	<b>218</b>	
		5'-CCg 3'	5'-CA g 3'		5'-gCA 3'	5'-CC A 3'		5'-Tg T 3'		5'-CgC 3'	5'-gC T 3'	
		<b>539</b>	<b>1043</b>		<b>618</b>	<b>512</b>					<b>231</b>	
		5'-TC T 3'	5'-CA A 3'		5'-C T 3'	5'-CC A 3'					5'-.. C 3'	
						<b>538</b>					<b>1016</b>	
						5'-CCA 3'					5'-CA C 3'	
						<b>595</b>						
						5'-CC T 3'						
<b>Well No.</b>	<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>

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
<b>5'-primer(s)<sup>1</sup></b>	<b>112</b>	<b>105</b>	<b>355</b>	<b>98</b>	<b>201</b>	<b>122</b>	<b>341</b>	<b>89</b>	<b>133</b>	<b>361</b>	<b>115</b>	<b>2nd I</b>
	5'-CC T 3'	5'-gCT 3'	5'-TC A 3'	5'-C TA 3'	5'-CCg 3'	5'-C CA 3'	5'-g gA 3'	5'-g AA 3'	5'-CC T 3'	5'-Ag T 3'	5'-gg A 3'	5'-C CA 3'
	<b>419</b>			<b>355</b>		<b>199</b>	<b>363</b>	<b>105</b>	<b>201</b>	<b>419</b>	<b>201</b>	
	5'-g TC 3'			5'-CC C 3'		5'-gT T 3'	5'-Agg 3'	5'-gCT 3'	5'-CCA 3'	5'-g TC 3'	5'-CCg 3'	
						<b>374</b>	<b>527</b>	<b>115</b>	<b>355</b>			
						5'-C TA 3'	5'-T gT 3'	5'-gg A 3'	5'-TC A 3'			
						<b>379</b>			<b>368</b>			
						5'-AC C 3'			5'-g TT 3'			
						<b>406</b>						
						5'-gC A 3'						
						<b>539</b>						
						5'-g Tg 3'						
<b>3'-primer(s)<sup>2</sup></b>	<b>295</b>	<b>343</b>	<b>589</b>	<b>295</b>	<b>270</b>	<b>341</b>	<b>353</b>	<b>312</b>	<b>343</b>	<b>459</b>	<b>312</b>	<b>539</b>
	5'-TCC 3'	5'-T 3'	5'-CTT 3'	5'-TCC 3'	5'-T Ag 3'	5'-Cg T 3'	5'-T gA 3'	5'-A gT 3'	5'-T 3'	5'-A gA 3'	5'-A gT 3'	5'-TC C 3'
	<b>589</b>		<b>589</b>	<b>301</b>	<b>343</b>	<b>589</b>	<b>589</b>		<b>514</b>			
	5'-CTT 3'		5'-CTT 3'	5'-gCC 3'	5'-T 3'	5'-CTT 3'	5'-CTT 3'		5'-CTT 3'			
				<b>589</b>	<b>474</b>				<b>550</b>			
				5'-CTT 3'	5'-g CA 3'				5'-CA T 3'			
									<b>601</b>			
									5'-CTT 3'			
<b>Well No.</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>

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
<b>5'-primer(s)<sup>1</sup></b>	<b>459</b>	<b>112</b>	<b>560</b>	<b>368</b>	<b>369</b>	<b>485</b>	<b>201</b>	<b>105</b>	<b>419</b>	<b>112</b>	<b>379</b>	<b>176</b>
	5'-gAT 3'	5'-CC T 3'	5'-C CT 3'	5'-g TT 3'	5'-TAC 3'	5'-C AA 3'	5'-CCA 3'	5'-gCT 3'	5'-g TC 3'	5'-CC T 3'	5'-AC C 3'	5'-g CA 3'
		<b>486</b>	<b>1018</b>				<b>355</b>	<b>369</b>		<b>355</b>		<b>413</b>
		5'-ACA 3'	5'-gTg 3'				5'-CC T 3'	5'-TAC 3'		5'-C C 3'		5'-T gT 3'
							<b>485</b>	<b>3rd I</b>		<b>363</b>		<b>420</b>
							5'-C AA 3'	5'-TgT 3'		5'-AgC 3'		5'-TTC 3'
										<b>379</b>		<b>467</b>
										5'-AC g 3'		5'-C TT 3'
												<b>539</b>
												5'-g Cg 3'
<b>3'-primer(s)<sup>2</sup></b>	<b>589</b>	<b>218</b>	<b>3rd I</b>	<b>527</b>	<b>459</b>	<b>601</b>	<b>299</b>	<b>242</b>	<b>601</b>	<b>289</b>	<b>601</b>	<b>221</b>
	5'-CTC 3'	5'-gC g 3'	5'-AC g 3'	5'-CC g 3'	5'-A gA 3'	5'-CTT 3'	5'-TC T 3'	5'-CC A 3'	5'-CTT 3'	5'-AgT 3'	5'-CTT 3'	5'-AC C 3'
		<b>613</b>	<b>3rd I</b>		<b>518</b>		<b>601</b>	<b>539</b>		<b>601</b>		<b>256</b>
		5'-gCA 3'	5'-gg A 3'		5'-CC A 3'		5'-CTC 3'	5'-TC T 3'		5'-CTT 3'		5'-CCA 3'
			<b>1052</b>		<b>616</b>			<b>668</b>				<b>289</b>
			5'-Tg g 3'		5'-Tg T 3'			5'-Tg A 3'				5'-AgC 3'
			<b>1092</b>									<b>589</b>
			5'-T TA 3'									5'-CTT 3'
<b>Well No.</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>



Lot No.: 95E

Lot-specific information

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
<b>5'-primer(s)<sup>1</sup></b>	361	134	28	2nd I	176	2nd I	142	19	86	368	270	368
	5'-Ag T 3' 406	5'-C CA 3'	5'-TC A 3'	5'-C CA 3'	5'-g CA 3'	5'-C CA 3'	5'-TC T 3' 361	5'-CC T 3' 126	5'-C AA 3' 213	5'-g TA 3'	5'-AAC 3'	5'-g TC 3'
	5'-gC C 3' 446						5'-Ag T 3'	5'-ggA 3' 412	5'-CCC 3' 368			
	5'-C gT 3' 512							5'-AT A 3'	5'-g TC 3'			
	5'-g TT 3' 1049											
	5'-C 3'											
<b>3'-primer(s)<sup>2</sup></b>	601	341	97	527	302	527	201	70	302	618	341	512
	5'-CTT 3' 1087	5'-Cg T 3'	5'-gTC 3'	5'-CC g 3' 539	5'-gg T 3'	5'-CC g 3'	5'-C TT 3' 343	5'-gg C 3' 220	5'-gg C 3' 474	5'-C T 3'	5'-Cg T 3'	5'-CC A 3'
	5'-Ag T 3'			5'-TC A 3'		5'-CCg 3'	5'-T 3' 475	5'-Cg A 3' 239	5'-g CA 3'			
							5'-ggT 3' 559	5'-gC g 3' 538				
							5'-CTC 3'	5'-CCA 3' 539				
								5'-TC T 3'				
<b>Well No.</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>

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
<b>5'-primer(s)<sup>1</sup></b>	89	47	89	512	1st I	47	47	410	486	527	368	539
	5'-g AT 3' 127	5'-A gg 3' 419	5'-g AA 3' 385	5'-g Tg 3'	5'-Cg A 3' 453	5'-A gg 3'	5'-A gg 3' 218	5'-g Tg 3' 524	5'-ACg 3'	5'-T AC 3'	5'-g TC 3' 449	5'-g Cg 3'
	5'-gg A 3' 172	5'-g TA 3'	5'-gg T 3'		5'-AAT 3' 1049		5'-g gA 3' 368	5'-C CA 3' 539			5'-C CA 3' 459	
	5'-TC C 3' 410				5'-g 3'		5'-g TA 3'	5'-g Tg 3' 560			5'-gAT 3' 527	
	5'-g TT 3' 486							5'-C AC 3'			5'-T AC 3'	
	5'-TAC 3'											
<b>3'-primer(s)<sup>2</sup></b>	218	302	278	601	175	270	90	618	601	595	559	601
	5'-gC T 3' 618	5'-gg T 3' 618	5'-g gT 3' 287	5'-CTT 3'	5'-CC g 3' 527	5'-T AC 3'	5'-Ag 3' 97	5'-C T 3'	5'-CTT 3'	5'-CCT 3'	5'-CTC 3' 585	5'-CTT 3'
	5'-C T 3'	5'-C T 3'	5'-TCg 3' 289		5'-CC A 3'		5'-gTA 3' 341				5'-AgT 3' 598	
			5'-AgC 3' 301		5'-AgC 3'		5'-Cg g 3' 3rd I				5'-CTC 3' 603	
			5'-gC A 3' 618				5'-AT g 3'				5'-T Tg 3'	
			5'-C T 3'									
<b>Well No.</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>

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
<b>5'-primer(s)<sup>1</sup></b>	98	419	361	201	28	361	98	98	98	368	368	134
	5'-C TA 3'	5'-g TC 3'	5'-Ag T 3'	5'-CCA 3'	5'-TC A 3' 431	5'-Ag T 3'	5'-C TC 3'	5'-C TC 3'	5'-C TC 3'	5'-g TT 3'	5'-g TA 3'	5'-C CA 3'
					5'-C gT 3' 697							
					5'-TC C 3'							
<b>3'-primer(s)<sup>2</sup></b>	289	477	538	289	270	474	201	201	302	538	459	201
	5'-AgC 3' 295	5'-g CA 3'	5'-CCA 3'	5'-AgT 3'	5'-T Ag 3' 538	5'-g CA 3'	5'-C TC 3'	5'-C TT 3'	5'-gg T 3'	5'-CCg 3'	5'-A gA 3'	5'-C TT 3'
	5'-TCC 3'				5'-CCA 3' 846							
					5'-CAC 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>

Lot No.: **95E**

Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
<b>5'-primer(s)<sup>1</sup></b>	409	134	134	419	420	376	201	420	270	1st I	376	361
	5'-gg C 3' 529	5'-C CA 3' 368	5'-C CA 3' 512	5'-g TC 3' 430	5'-TTC 3'	5'-gC T 3' 419	5'-CCA 3'	5'-TTA 3' 421	5'-AAg 3'	5'-Cg A 3'	5'-gC T 3' 420	5'-Ag T 3'
	5'-Ag A 3'	5'-g Tg 3'	5'-g TT 3'	5'-AC C 3'		5'-g TA 3' 430		5'-AC C 3' 560			5'-TTA 3' 501	
						5'-AC C 3' 501		5'-C gA 3'			5'-..C 3'	
						5'-..C 3' 529						
						5'-Ag A 3'						
<b>3'-primer(s)<sup>2</sup></b>	3rd I	270	289	3rd I	477	3rd I	302	539	420	134	3rd I	527
	5'-CT C 3'	5'-T Ag 3'	5'-AgC 3'	5'-CT C 3'	5'-g Cg 3'	5'-CT C 3'	5'-gg C 3'	5'-TC C 3'	5'-g CT 3'	5'-Ag C 3'	5'-CT C 3'	5'-CC g 3'
		419	616					589				
		5'-Cg A 3'	5'-CgT 3'					5'-CTT 3'				
<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>

Well No.	85	86	87	88	89	90	91	92	93	94	95
<b>5'-primer(s)<sup>1</sup></b>	1st I	47	419	368	28	20	28	70	20	956	895
	5'-Cg A 3'	5'-A gg 3'	5'-g TC 3'	5'-g TT 3'	5'-TC A 3'	5'-C CA 3'	5'-TC A 3'	5'-gg A 3'	5'-C CA 3'	5'-g gT 3'	5'-gg A 3'
		419					390	347	368		
		5'-g TC 3'					5'-gAA 3'	5'-g TA 3'	5'-g TT 3'		
							411				
							5'-TAg 3'				
							419				
							5'-g TT 3'				
							490				
							5'-Cg A 3'				
<b>3'-primer(s)<sup>2</sup></b>	302	289	539	412	201	201	59	201	70	1034	956
	5'-gg T 3'	5'-AgT 3'	5'-TC T 3'	5'-gTC 3'	5'-C TC 3'	5'-C TC 3'	5'-Cg A 3'	5'-C TC 3'	5'-gg C 3'	5'-Ag C 3'	5'-CA g 3'
		527		521			618	459	539		
		5'-CC C 3'		5'-g gA 3'			5'-C T 3'	5'-A gA 3'	5'-TC A 3'		
<b>Well No.</b>	<b>85</b>	<b>86</b>	<b>87</b>	<b>88</b>	<b>89</b>	<b>90</b>	<b>91</b>	<b>92</b>	<b>93</b>	<b>94</b>	<b>95</b>

<sup>1</sup>The nucleotide position, in the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> exon or the 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> intron, matching the specificity-determining 3'-end of the 5'-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>2</sup>The nucleotide position, in the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> exon or the 3<sup>rd</sup> intron, matching the specificity-determining 3'-end of the 3'-primer is given in the anti-sense direction. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

Lot No.: 95E

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-Cw high resolution SSP primer set																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	2008-491-01	2008-497-02	2008-497-03	2008-497-04	2008-497-05	2008-497-06	2008-497-07	2008-497-08	2008-497-09	2008-497-10	2008-497-11	2008-497-12	2008-497-13	2008-497-14	2008-497-15	2008-497-16
IHWCell line		Cw*																		
1	9001	SA	*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*0701	*1505	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
3	9011	E4181324	*1202		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*0304	*0401	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
5	9009	KAS011	*0602		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*0304	*0702	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
7	9020	QBL	*0501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9007	DEM	*0602		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*0102		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*1601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*0602		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*0102		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*0102	*0304	+	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
15	9075	DKB	*0304		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
16	9037	SWEIG007	*0202		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
17	9282	CTM3953540	*0303	*0701	-	-	-	-	-	-	+	-	-	-	-	-	-	+	+	-
18	9257	32367	*0102	*0705	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*0701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*0304		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
21	9064	AMALA	*0303		-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
22	9056	KOSE	*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*0102	*1502	+	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
24	9035	JBUSH	*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*0802		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*0701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*0704	*1505	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
28	9320	BEL5GB	*0501	*1601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*1601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*1701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*0501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*1701	*1703	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*0304		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
34	9104	DHIF	*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*0501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*0303	*0401	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
37	9065	HHKB	*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*0303		-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
39	9315	CML	*0202	*0701	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
40	9134	WHONP199	*0102	*0602	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*0802		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*0102		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*0102	*0801	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*0602	*1701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*0704	*1502	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
48	9303	TER-ND	*0401	*1601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: **95E**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-Cw high resolution SSP primer set																				
				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	2008-497-17	2008-497-18	2008-497-19	2008-497-20	2008-497-21	2008-497-22	2008-497-23	2008-497-24	2008-497-25	2008-497-26	2008-497-27	2008-497-28	2008-497-29	2008-497-30	2008-497-31	2008-497-32
IHCW cell line			Cw*																	
1	9001	SA	*0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*0701 *1505	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*1202	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
4	9275	GU373	*0304 *0401	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
5	9009	KAS011	*0602	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
6	9353	SM	*0304 *0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*0501	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
8	9007	DEM	*0602	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
9	9026	YAR	*1203	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
10	9107	LKT3	*0102	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
11	9051	PITOUT	*1601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*0602	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*0102	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
14	9071	OLGA	*0102 *0304	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
15	9075	DKB	*0304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*0202	-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*0303 *0701	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*0102 *0705	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
19	9038	BM16	*0701	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*0304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*0303	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*1203	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
23	9124	IHL	*0102 *1502	-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-
24	9035	JBUSH	*1203	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
25	9049	IBW9	*0802	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
26	9285	WT49	*0701	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*0704 *1505	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*0501 *1601	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
29	9050	MOU	*1601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*1701	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*0501	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
32	9297	HAG	*1701 *1703	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*0304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*1203	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
35	9302	SSTO	*0501	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
36	9024	KT17	*0303 *0401	+	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
37	9065	HHKB	*0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*0303	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*0202 *0701	+	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-
40	9134	WHONP199	*0102 *0602	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
41	9055	H0301	*0802	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
42	9066	TAB089	*0102	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
43	9076	T7526	*0102 *0801	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
44	9057	TEM	*1203	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
45	9239	SHJO	*0602 *1701	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
46	9013	SCHU	*0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*0704 *1502	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*0401 *1601	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-



Lot No.: 95E

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-Cw high resolution SSP primer set																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	2008-497-33	2008-497-34	2008-497-35	2008-497-36	2008-497-37	2008-497-38	2008-497-39	2008-497-40	2008-497-41	2008-497-42	2008-497-43	2008-497-44	2008-497-45	2008-497-46	2008-497-47	2008-497-48
IHCW cell line			Cw*																	
1	9001	SA	*0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
2	9280	LK707	*0701 *1505	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	+	-
3	9011	E4181324	*1202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*0304 *0401	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
5	9009	KAS011	*0602	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
6	9353	SM	*0304 *0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
7	9020	QBL	*0501	-	-	+	-	-	-	-	-	-	+	+	-	-	-	-	-	-
8	9007	DEM	*0602	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*1203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*0102	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
11	9051	PITOUT	*1601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*0602	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*0102	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
14	9071	OLGA	*0102 *0304	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
15	9075	DKB	*0304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*0202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*0303 *0701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
18	9257	32367	*0102 *0705	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-
19	9038	BM16	*0701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
20	9059	SLE005	*0304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*0303	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*1203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*0102 *1502	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-
24	9035	JBUSH	*1203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*0802	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-
26	9285	WT49	*0701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
27	9191	CH1007	*0704 *1505	-	-	+	-	+	-	-	+	-	-	-	-	+	-	-	-	-
28	9320	BEL5GB	*0501 *1601	-	-	+	-	-	-	-	-	+	+	-	-	-	-	-	-	-
29	9050	MOU	*1601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*1701	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
31	9019	DUCAF	*0501	-	-	+	-	-	-	-	-	-	+	+	-	-	-	-	-	-
32	9297	HAG	*1701 *1703	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
33	9098	MT14B	*0304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*1203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*0501	-	-	+	-	-	-	-	-	-	+	+	-	-	-	-	-	-
36	9024	KT17	*0303 *0401	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
37	9065	HHKB	*0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
38	9099	LZL	*0303	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*0202 *0701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
40	9134	WHONP199	*0102 *0602	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-
41	9055	H0301	*0802	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-
42	9066	TAB089	*0102	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
43	9076	T7526	*0102 *0801	-	-	+	-	-	-	-	+	-	+	-	-	-	-	-	-	-
44	9057	TEM	*1203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*0602 *1701	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
46	9013	SCHU	*0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
47	9045	TUBO	*0704 *1502	-	-	+	-	+	-	-	+	-	-	-	-	-	+	-	-	-
48	9303	TER-ND	*0401 *1601	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-



Lot No.: 95E

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-Cw high resolution SSP primer set																			
				Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				2008-497-49	2008-497-50	2008-497-51	2008-497-52	2008-497-53	2008-497-54	2008-497-55	2008-497-56	2008-497-57	2008-497-58	2008-497-59	2008-497-60	2008-497-61	2008-497-62	2008-497-63	2008-497-64
			Prod. No.:																
	IHWC cell line		Cw*																
1	9001 SA		*0702		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
2	9280 LK707		*0701	*1505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
3	9011 E4181324		*1202		-	-	-	-	-	-	-	-	-	-	+	+	-	-	-
4	9275 GU373		*0304	*0401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*0602		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
6	9353 SM		*0304	*0702	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
7	9020 QBL		*0501		-	-	-	+	-	-	-	-	-	+	-	-	-	-	+
8	9007 DEM		*0602		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
9	9026 YAR		*1203		-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
10	9107 LKT3		*0102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*1601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
12	9052 DBB		*0602		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
13	9004 JESTHOM		*0102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*0102	*0304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*0304		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*0202		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
17	9282 CTM3953540		*0303	*0701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*0102	*0705	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*0701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*0304		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*0303		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*1203		-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
23	9124 IHL		*0102	*1502	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
24	9035 JBUSH		*1203		-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
25	9049 IBW9		*0802		-	-	-	+	-	-	-	-	-	-	+	-	-	-	+
26	9285 WT49		*0701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*0704	*1505	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+
28	9320 BEL5GB		*0501	*1601	-	-	-	+	-	-	-	-	-	-	+	-	-	-	+
29	9050 MOU		*1601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
30	9021 RSH		*1701		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
31	9019 DUCAF		*0501		-	-	-	+	-	-	-	-	-	-	+	-	-	-	+
32	9297 HAG		*1701	*1703	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
33	9098 MT14B		*0304		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*1203		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-
35	9302 SSTO		*0501		-	-	-	+	-	-	-	-	-	-	+	-	-	-	+
36	9024 KT17		*0303	*0401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*0702		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
38	9099 LZL		*0303		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*0202	*0701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
40	9134 WHONP199		*0102	*0602	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
41	9055 H0301		*0802		-	-	-	+	-	-	-	-	-	-	+	-	-	-	+
42	9066 TAB089		*0102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*0102	*0801	-	-	-	+	-	-	-	+	-	-	-	-	-	-	+
44	9057 TEM		*1203		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-
45	9239 SHJO		*0602	*1701	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-
46	9013 SCHU		*0702		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*0704	*1502	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+
48	9303 TER-ND		*0401	*1601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+



Lot No.: **95E**

Lot-specific information

CELL LINE VALIDATION SHEET					Well															
HLA-Cw high resolution SSP primer set					65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				Prod. No.:	2008-497-65	2008-497-66	2008-497-67	2008-497-68	2008-497-69	2008-497-70	2008-497-71	2008-497-72	2008-497-73	2008-497-74	2008-497-75	2008-497-76	2008-497-77	2008-497-78	2008-497-79	2008-497-80
	IHWCell line		Cw*																	
1	9001 SA		*0702		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
2	9280 LK707		*0701	*1505	-	-	-	-	-	-	-	+	+	+	-	+	+	-	-	-
3	9011 E4181324		*1202		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
4	9275 GU373		*0304	*0401	-	-	-	+	+	+	+	-	-	-	-	-	-	+	-	-
5	9009 KAS011		*0602		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
6	9353 SM		*0304	*0702	-	-	-	-	-	-	+	-	-	-	-	+	-	+	-	-
7	9020 QBL		*0501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9007 DEM		*0602		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
9	9026 YAR		*1203		-	+	-	-	-	-	-	-	-	-	-	+	-	-	+	-
10	9107 LKT3		*0102		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
11	9051 PITOUT		*1601		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
12	9052 DBB		*0602		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
13	9004 JESTHOM		*0102		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
14	9071 OLGA		*0102	*0304	-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
15	9075 DKB		*0304		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
16	9037 SWEIG007		*0202		-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
17	9282 CTM3953540		*0303	*0701	-	-	-	-	-	-	+	-	-	-	-	+	-	+	-	-
18	9257 32367		*0102	*0705	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
19	9038 BM16		*0701		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
20	9059 SLE005		*0304		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
21	9064 AMALA		*0303		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
22	9056 KOSE		*1203		-	+	-	-	-	-	-	-	-	-	-	+	-	-	+	-
23	9124 IHL		*0102	*1502	-	-	-	-	-	-	-	+	+	+	-	-	-	+	-	-
24	9035 JBUSH		*1203		-	+	-	-	-	-	-	-	-	-	-	+	-	-	+	-
25	9049 IBW9		*0802		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
26	9285 WT49		*0701		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
27	9191 CH1007		*0704	*1505	-	-	-	-	-	-	-	+	+	+	-	-	+	-	-	-
28	9320 BEL5GB		*0501	*1601	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
29	9050 MOU		*1601		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
30	9021 RSH		*1701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF		*0501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*1701	*1703	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B		*0304		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
34	9104 DHIF		*1203		-	+	-	-	-	-	-	-	-	-	-	+	-	-	+	-
35	9302 SSTO		*0501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*0303	*0401	-	-	-	+	+	+	+	-	-	-	-	-	-	+	-	-
37	9065 HHKB		*0702		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
38	9099 LZL		*0303		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
39	9315 CML		*0202	*0701	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
40	9134 WHONP199		*0102	*0602	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
41	9055 H0301		*0802		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
42	9066 TAB089		*0102		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
43	9076 T7526		*0102	*0801	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
44	9057 TEM		*1203		-	+	-	-	-	-	-	-	-	-	-	+	-	-	+	-
45	9239 SHJO		*0602	*1701	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
46	9013 SCHU		*0702		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
47	9045 TUBO		*0704	*1502	-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	-
48	9303 TER-ND		*0401	*1601	-	-	-	+	+	+	-	-	-	-	-	+	-	-	+	-



Lot No.: **95E**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-Cw high resolution SSP primer set</b>																			
				<b>Well</b>															
				<b>81</b>	<b>82</b>	<b>83</b>	<b>84</b>	<b>85</b>	<b>86</b>	<b>87</b>	<b>88</b>	<b>89</b>	<b>90</b>	<b>91</b>	<b>92</b>	<b>93</b>	<b>94</b>	<b>95</b>	
				2008-497-81	2008-497-82	2008-497-83	2008-497-84	2008-497-85	2008-497-86	2008-497-87	2008-497-88	2008-497-89	2008-497-90	2008-497-91	2008-497-92	2008-497-93	2008-497-94	2008-497-95	
			Prod. No.:																
	<b>IHWC cell line</b>		<b>Cw*</b>																
1	9001 SA		*0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
2	9280 LK707		*0701 *1505	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-
3	9011 E4181324		*1202	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*0304 *0401	-	+	-	-	+	-	-	-	+	-	-	-	-	-	-	+
5	9009 KAS011		*0602	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-
6	9353 SM		*0304 *0702	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-
7	9020 QBL		*0501	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
8	9007 DEM		*0602	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-
9	9026 YAR		*1203	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*0102	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
11	9051 PITOUT		*1601	-	+	-	+	-	-	+	-	-	-	-	-	-	-	-	-
12	9052 DBB		*0602	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-
13	9004 JESTHOM		*0102	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
14	9071 OLGa		*0102 *0304	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
15	9075 DKB		*0304	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
16	9037 SWEIG007		*0202	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*0303 *0701	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-
18	9257 32367		*0102 *0705	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-
19	9038 BM16		*0701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
20	9059 SLE005		*0304	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
21	9064 AMALA		*0303	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
22	9056 KOSE		*1203	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*0102 *1502	-	-	+	-	+	-	-	-	+	-	-	-	-	-	-	-
24	9035 JBUSH		*1203	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*0802	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*0701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
27	9191 CH1007		*0704 *1505	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-
28	9320 BEL5GB		*0501 *1601	-	+	-	+	+	-	+	-	-	-	-	-	-	-	-	-
29	9050 MOU		*1601	-	+	-	+	-	-	+	-	-	-	-	-	-	-	-	-
30	9021 RSH		*1701	-	+	-	-	+	-	-	-	-	+	-	-	-	+	-	-
31	9019 DUCAF		*0501	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*1701 *1703	-	+	-	-	+	-	-	-	-	+	-	-	+	+	-	-
33	9098 MT14B		*0304	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
34	9104 DHIF		*1203	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*0501	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*0303 *0401	-	+	-	-	+	-	-	-	+	-	-	-	-	-	-	+
37	9065 HHKB		*0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
38	9099 LZL		*0303	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
39	9315 CML		*0202 *0701	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-
40	9134 WHONP199		*0102 *0602	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-
41	9055 H0301		*0802	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*0102	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
43	9076 T7526		*0102 *0801	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-
44	9057 TEM		*1203	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*0602 *1701	-	+	-	-	+	-	-	-	+	+	-	-	+	-	-	-
46	9013 SCHU		*0702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
47	9045 TUBO		*0704 *1502	-	-	+	-	+	-	-	-	-	-	-	-	-	-	+	-
48	9303 TER-ND		*0401 *1601	-	+	-	+	+	-	+	-	-	-	-	-	-	-	-	+



Lot No.: **95E**

Lot-specific information

## CERTIFICATE OF ANALYSIS

### **Olerup SSP<sup>®</sup> HLA-Cw high resolution for frequent alleles SSP**

**Product number:** 101.707-12u – without Taq polymerase  
**Lot number:** 95E  
**Expiry date:** 2010-September-01  
**Number of tests:** 12  
**Number of wells per test:** 95 + 1

#### **Well specifications:**

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2008-497-01	33	2008-497-33	65	2008-497-65
2	2008-497-02	34	2008-497-34	66	2008-497-66
3	2008-497-03	35	2008-497-35	67	2008-497-67
4	2008-497-04	36	2008-497-36	68	2008-497-68
5	2008-497-05	37	2008-497-37	69	2008-497-69
6	2008-497-06	38	2008-497-38	70	2008-497-70
7	2008-497-07	39	2008-497-39	71	2008-497-71
8	2008-497-08	40	2008-497-40	72	2008-497-72
9	2008-497-09	41	2008-497-41	73	2008-497-73
10	2008-497-10	42	2008-497-42	74	2008-497-74
11	2008-497-11	43	2008-497-43	75	2008-497-75
12	2008-497-12	44	2008-497-44	78	2008-497-76
13	2008-497-13	45	2008-497-45	77	2008-497-77
14	2008-497-14	46	2008-497-46	78	2008-497-78
15	2008-497-15	47	2008-497-47	79	2008-497-79
16	2008-497-16	48	2008-497-48	80	2008-497-80
17	2008-497-17	49	2008-497-49	81	2008-497-81
18	2008-497-18	50	2008-497-50	82	2008-497-82
19	2008-497-19	51	2008-497-51	83	2008-497-83
20	2008-497-20	52	2008-497-52	84	2008-497-84
21	2008-497-21	53	2008-497-53	85	2008-497-85
22	2008-497-22	54	2008-497-54	86	2008-497-86
23	2008-497-23	55	2008-497-55	87	2008-497-87
24	2008-497-24	56	2008-497-56	88	2008-497-88
25	2008-497-25	57	2008-497-57	89	2008-497-89
26	2008-497-26	58	2008-497-58	90	2008-497-90
27	2008-497-27	59	2008-497-59	91	2008-497-91
28	2008-497-28	60	2008-497-60	92	2008-497-92
29	2008-497-29	61	2008-497-61	93	2008-497-93
30	2008-497-30	62	2008-497-62	94	2008-497-94
31	2008-497-31	63	2008-497-63	95	2008-497-95
32	2008-497-32	64	2008-497-64		

Lot No.: **95E**

**Lot-specific information**

The specificity of each primer solution of the HLA-Cw high resolution for frequent alleles primer set has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer pairs in solutions 2, 4, 5, 8, 9, 10, 11, 18, 19, 21, 32, 33, 34, 43, 44, 49, 51, 53, 55, 56, 58, 59, 80, 81, 86, 88 and 91. The specificity of most of the primers in these solutions were tested by separately adding one or more additional 5'-primer, respectively one or more additional 3'-primer. In primer solutions 2, 3, 4, 5, 8, 9, 18, 20, 21, 23, 31, 34, 36, 37, 44, 45, 49, 51, 56, 59, 65, 73, 76, 78, 80, 83, 91 and 92 one or more of the 5'-primers were not possible to test. In primer solutions 2, 3, 5, 6, 8, 10, 13, 15, 16, 21, 26, 27, 29, 31, 32, 36, 43, 44, 51, 55, 58, 59, 61, 75, 79, 86 and 88 one or more of the 3'-primers were not possible to test. Additional 5'-primers or 3'-primers in primer solutions 3, 6, 11, 12, 13, 16, 17, 20, 26, 27, 31, 36, 45, 46, 50, 71, 74, 92 and 93 were tested by separately adding one or more additional 3'-primer, respectively one or more additional 5'-primer.

The negative control primer pairs, **Production No. 2008-495-01**, can detect contamination with PCR products diluted  $10^{-7}$ .

**Results:** No false positive or false negative amplifications were obtained.

**Date of approval:** 2009-October-23

**Approved by:**

**Quality Control, Supervisor**

Lot No.: **95E**

Lot-specific information

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-Cw high resolution for frequent alleles  
**Product number:** 101.707-12u  
**Lot number:** 95E

**Intended use:** HLA-Cw high resolution for frequent alleles histo-compatibility testing

**Manufacturer:** *Olerup* SSP AB  
Hasselstigen 1  
SE-133 33 Saltsjöbaden, Sweden  
**Phone:** +46-8-717 88 27  
**Fax:** +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2000, ISO 17025:1999 and ISO 13485:2000, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex III.

The Technical Construction File is maintained at *Olerup* SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

The Authorized Representative located within the Community is: *Olerup* SSP AB.

Saltsjöbaden, Sweden  
2009-October-23

Olle Olerup  
Managing Director

Lot No.: **95E**

Lot-specific information

Lot No.: **95E**

Lot-specific information

Lot No.: **95E**

Lot-specific information

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For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH**.