

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **6G5**

Lot-specific information

## Olerup SSP<sup>®</sup> HLA-B\*51

Product number:	101.561-24/03 – including <i>Taq</i> pol. 101.561-24u/03u – without <i>Taq</i> pol.
Lot number:	6G5
Expiry date:	2021-02-01
Number of tests:	24 tests – Product No. 101.561-24/24u 3 tests – Product No. 101.561-03/03u
Number of wells per test:	84+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. 6G5.

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

### CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup> HLA-B\*51 LOT (7E5)

The HLA-B\*51 kit is updated for new alleles to enable separation of:

- Null and Alternatively expressed alleles
- The product documentation has been updated for new alleles of IMGT 3.32.0

The format of the Worksheet has been changed.

Two wells have been added to HLA-B\*51, wells **84 to 85**.

The HLA-B\*51 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP<sup>®</sup>* HLA-B\*51 lot was made (Lot No. 7E5).

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

Well	5'-primer	3'-primer	rationale
9	Moved	Moved	Primer pair moved to primer mix 83 for decreased tendency of primer oligomer formation.
27	Moved	Moved	Primer pair moved to primer mix 84 for decreased tendency of unspecific amplification.
53	-	Added	3'-primer added for the B*51:174:02 allele.
67	-	Added	3'-primer added for the B*51:231 allele.
73	-	Added	3'-primer added for the B*51:174:02 allele.
83	Added	Added	Negative control moved to well 85, primer pair added from well 9.
84	Added	Added	Primer pair added from well 27.
85	-	-	Negative control added from well 83.

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Well **85** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP<sup>®</sup> HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

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

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

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

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

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## PRODUCT DESCRIPTION

### HLA-B\*51 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*51:01 to B\*51:234 alleles.

#### PLATE LAYOUT

Each test consists of 85 PCR reactions in a 96 well PCR plate. Wells 86 to 96 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	42	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	NC	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty

The 96 well cut PCR plate is marked with 'HLA-B\*51' in silver/gray ink.

Well No. 1 is marked with the Lot No. '6G5'.

Wells 1 to 84 – HLA-B\*51 high resolution primers.

Well 85 – Negative Control (NC).

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

#### INTERPRETATION

Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B\*51 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*51 alleles, i.e. **B\*51:01 to B\*51:234**, recognized by the HLA Nomenclature Committee in April 2018<sup>1,2</sup> will be amplified by the primers in the HLA-B\*51 subtyping kit<sup>3</sup>.

The HLA-B\*51 kit enables separation of the confirmed HLA-B\*51 alleles as listed in the IMGT/HLA database 3.25.0. An HLA allele is listed as confirmed by IMGT/HLA

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if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-B\*51 alleles is listed below.

The HLA-B\*51 kit also enables identification of null and alternatively expressed alleles.

The following HLA-B\*51 alleles can be distinguished by the different sizes of the specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
B*51:26, 51:185	20	B*51:74, 51:124	54
B*51:30, 51:142	25	B*51:75, 51:77	55
B*51:57, 51:123	46	B*51:83, 51:88	59
B*51:66, 51:67	64	B*51:84, 51:94	60
B*51:68, 51:72	51	B*51:86, 51:95	62
B*51:70, 51:71	53	B*51:127, 51:149N	73

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2018-April-16, release 3.32.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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

<sup>3</sup>The B\*51:119, 51:176, 51:179, 51:218, 51:226 and the B\*52:06:03 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or the HLA-B\*52 high resolution kit.

The B\*51:220 and the B\*53:01:13 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or the HLA-B\*53 high resolution kit.

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### ALLELE CONFIRMATION STATUS

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

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Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
<b>B*51:130</b>	<b>Confirmed</b>	B*51:150	Unconfirmed	B*51:169	Unconfirmed	B*51:189	Unconfirmed
B*51:131	Unconfirmed	<b>B*51:151</b>	<b>Confirmed</b>	B*51:170	Unconfirmed	B*51:190	Unconfirmed
B*51:132	Unconfirmed	<b>B*51:152</b>	<b>Confirmed</b>	B*51:171	Unconfirmed	B*51:191	Unconfirmed
B*51:133	Unconfirmed	B*51:153	Unconfirmed	B*51:172	Unconfirmed	B*51:192	Unconfirmed
<b>B*51:134</b>	<b>Confirmed</b>	B*51:154	Unconfirmed	B*51:173Q	Unconfirmed	<b>B*51:193</b>	<b>Confirmed</b>
B*51:135	Unconfirmed	B*51:155	Unconfirmed	<b>B*51:174</b>	<b>Confirmed</b>	B*51:194	Unconfirmed
<b>B*51:136</b>	<b>Confirmed</b>	<b>B*51:156</b>	<b>Confirmed</b>	B*51:175	Unconfirmed	B*51:195	Unconfirmed
B*51:137	Unconfirmed	B*51:157	Unconfirmed	B*51:176	Unconfirmed	B*51:196	Unconfirmed
B*51:138	Unconfirmed	<b>B*51:158:01</b>	<b>Confirmed</b>	B*51:177	Unconfirmed	B*51:197	Unconfirmed
B*51:139	Unconfirmed	<b>B*51:158:02</b>	<b>Confirmed</b>	B*51:178N	Unconfirmed	B*51:198	Unconfirmed
B*51:140	Unconfirmed	B*51:159	Unconfirmed	B*51:179	Unconfirmed	B*51:199	Unconfirmed
B*51:141	Unconfirmed	<b>B*51:160</b>	<b>Confirmed</b>	B*51:180	Unconfirmed	B*51:200	Unconfirmed
B*51:142	Unconfirmed	B*51:161	Unconfirmed	B*51:181	Unconfirmed	B*51:201	Unconfirmed
B*51:143	Unconfirmed	B*51:162	Unconfirmed	B*51:182	Unconfirmed	B*51:202	Unconfirmed
B*51:144	Unconfirmed	B*51:163	Unconfirmed	B*51:183	Unconfirmed	B*51:203	Unconfirmed
B*51:145	Unconfirmed	B*51:164	Unconfirmed	B*51:184N	Unconfirmed	B*51:204	Unconfirmed
<b>B*51:146</b>	<b>Confirmed</b>	B*51:165	Unconfirmed	<b>B*51:185</b>	<b>Confirmed</b>	B*51:205	Unconfirmed
<b>B*51:147</b>	<b>Confirmed</b>	B*51:166	Unconfirmed	B*51:186	Unconfirmed	B*51:206	Unconfirmed
<b>B*51:148</b>	<b>Confirmed</b>	<b>B*51:167</b>	<b>Confirmed</b>	<b>B*51:187</b>	<b>Confirmed</b>	B*51:207	Unconfirmed
B*51:149N	Unconfirmed	<b>B*51:168</b>	<b>Confirmed</b>	B*51:188	Unconfirmed	B*51:208	Unconfirmed

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

### RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B\*51 homo- and heterozygotes is available upon request.

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## SPECIFICITY TABLE

### HLA-B\*51 SSP subtyping

Specificities and sizes of the PCR products of the 84+1 primer mixes used for HLA-B\*51 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-B*51 alleles <sup>3</sup>	Other amplified HLA-B alleles
<b>1<sup>4</sup></b>	105 bp	<b>800 bp</b>	*51:01:01:01-51:06:04, 51:08:01:01-51:21, 51:23-51:24:05, 51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:127, 51:129-51:146, 51:148-51:188, 51:190-51:213, 51:215-51:221, 51:223-51:234	*08:32, 08:133, 08:180, 18:07:01-18:07:02, 18:29, 18:79, 18:136, 35:01:01:01-35:08:01:02, 35:08:03-35:08:04, 35:08:06-35:18, 35:21-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 35:64:01-35:71, 35:74-35:75, 35:77, 35:79-35:81, 35:83-35:84, 35:86-35:94, 35:96-35:134N, 35:136-35:153, 35:155-35:185, 35:187-35:197, 35:199-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:228, 35:230-35:253, 35:256-35:270, 35:272-35:273, 35:275-35:293, 35:295, 35:297-35:310, 35:312-35:316, 35:318-35:360, 35:362-35:367, 35:369-35:370, 37:21, 37:67, 38:06-38:07, 44:06, 52:06:01-52:06:03, 53:01:01-53:08:02, 53:10-53:16, 53:18-53:27, 53:29, 53:31-53:37, 53:41-53:50, 78:01:01:01-78:02:02, 78:04, 78:07-78:09
<b>2<sup>4</sup></b>	95 bp	1070 bp	*51:01:01:01-51:01:62, 51:03-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:22, 51:24:01-51:24:05, 51:26-51:30, 51:32-51:33, 51:35, 51:37-51:39, 51:41N, 51:43, 51:45-51:46, 51:48-51:52, 51:55-51:58, 51:60-51:72, 51:74-51:80, 51:82-51:92:02, 51:94-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:119, 51:121, 51:123-51:138, 51:140, 51:142, 51:145, 51:147, 51:149N-51:152, 51:154-51:156, 51:158:01-51:174:02, 51:176-51:179, 51:182-51:193, 51:195-51:196, 51:198, 51:200-51:216, 51:218-51:219, 51:221-51:227, 51:229-51:234	*07:218, 13:62, 14:01:01:01-14:40, 14:42, 14:44-14:45, 14:47-14:55, 14:57-14:58, 14:60-14:61, 15:37-15:38:02, 15:323, 15:335, 15:364, 15:368, 15:435, 18:15, 18:19, 18:30, 18:57, 27:153, 35:21, 35:96, 35:188, 40:28, 40:51, 40:174, 49:09, 52:01:01:01-52:02:02, 52:04-52:09:02, 52:12-52:18, 52:20-52:27, 52:30-52:66, 52:68-52:70, 52:72-52:73, 52:75, 53:06, 53:28, 56:05:01-56:06, 56:21, 58:08:01-58:08:02, 78:01:01:01-78:03, 78:05-78:07, 78:09, <b>C*01:30, C*03:384, C*06:207, C*08:51, C*08:114, C*12:87, C*14:76, C*15:39, C*15:130</b>



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3	265 bp	1070 bp	*51:02:01:01-51:02:05, 51:05, 51:10, 51:15, 51:23, 51:34, 51:36, 51:40, 51:54, 51:93, 51:108, 51:143-51:144, 51:146, 51:157, 51:180, 51:197, 51:199	*07:78, 07:84, 08:09, 08:84, 13:02:01:01- 13:02:12, 13:02:14-13:04, 13:08-13:09, 13:14, 13:16, 13:18-13:19, 13:27, 13:30- 13:35, 13:37-13:38, 13:40-13:42, 13:45- 13:49N, 13:53-13:56:02N, 13:58-13:59, 13:65-13:70, 13:72, 13:74-13:75, 13:81- 13:82, 13:84-13:85, 13:88-13:89, 13:91, 13:93-13:94, 13:96-13:105, 15:04:01:01- 15:04:04, 15:16:01:01-15:16:03, 15:42, 15:67, 15:83, 15:95, 15:137, 15:155, 15:222, 15:254, 15:293, 15:303, 15:310, 15:362, 15:408, 27:14, 27:81, 27:130, 35:37, 35:60, 35:235, 35:265, 35:273, 35:276, 39:06:01-39:06:05, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 39:109, 39:127, 39:129, 39:132, 40:06:01:01-40:06:16, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161- 40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298:01- 40:298:02, 40:306-40:307, 40:311, 40:313, 40:317-40:318, 40:330, 40:340-40:342, 40:348-40:350, 40:354, 40:361N-40:364, 41:01:01-41:01:03, 41:01:05, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20- 41:22, 41:25-41:26, 41:28-41:30, 41:32- 41:35, 41:37, 41:44, 41:50, 41:53-41:54, 42:04, 44:15:01:01-44:15:01:02, 44:18, 44:20, 44:47, 44:100, 44:197, 45:01:01- 45:21, 46:11, 46:18, 46:32, 49:01:01:01- 49:01:04, 49:01:06, 49:01:08-49:08, 49:10- 49:14, 49:16-49:45, 49:48-49:50, 50:01:01:01-50:02, 50:04-50:11, 50:13- 50:16, 50:18-50:20, 50:31-50:50, 50:52- 50:55, 52:03, 52:11, 52:67, 54:01:01- 54:05N, 54:07-54:08N, 54:10-54:37, 55:01:01-55:01:06, 55:01:08-55:02:02, 55:02:04-55:03, 55:05, 55:07, 55:09-55:13, 55:15-55:48, 55:50, 55:52-55:85, 55:87, 56:01:01:01-56:01:11, 56:07-56:08, 56:13- 56:17, 56:19N-56:20:02, 56:22-56:30, 56:33, 56:35-56:36, 56:38N-56:50, 56:52-56:55:01:02, 59:01:01:01-59:10N, 78:04, <b>C*05:152, C*07:463, C*12:183, C*14:92</b>
4	255 bp	1070 bp	*51:03	
5	270 bp	1070 bp	*51:04, 51:46, 51:56:01- 51:56:03, 51:139, 51:227	*14:10, 18:22, 18:69 <sup>w</sup> , 18:105, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 35:233, 35:287, 37:04:01 <sup>w</sup> -37:04:02 <sup>w</sup> , 40:28, 44:190, 44:203, 44:275, 53:02, 53:06, 53:28,

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<b>6<sup>5</sup></b>	210 bp	<b>800 bp</b>	*51:05 <sup>w</sup> , 51:09:01-51:10, 51:15, 51:19, 51:31, 51:40, 51:54 <sup>w</sup> , 51:73, 51:93, 51:108, 51:122, 51:157, 51:217 <sup>w</sup>	*13:02:01:01-13:04, 13:08-13:09, 13:14-13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:35, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:53-13:56:02N, 13:58-13:59, 13:65-13:70, 13:72, 13:74-13:75, 13:81-13:82, 13:84-13:85, 13:88-13:89, 13:91, 13:93-13:94, 13:96-13:105, 15:155, 15:222, 27:14, 27:81, 27:130, 35:37, 35:60, 35:235, 35:273, 35:276, 39:06:01-39:06:05, 39:33 <sup>w</sup> , 39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 39:109, 39:127, 39:129, 39:132, 40:06:01:01-40:06:16, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:159, 40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298:01-40:298:02, 40:306-40:307, 40:311, 40:313, 40:317-40:318, 40:330, 40:340-40:342, 40:348-40:350, 40:354, 40:361N-40:364, 44:47, 44:197, 46:11, 46:18, 49:11, 50:49, 52:03, 52:10:01-52:10:03, 52:71, 52:74, 54:01:01-54:05N, 54:07-54:08N, 54:10 <sup>w</sup> , 54:11-54:19, 54:21-54:32, 54:34-54:37, 55:02:01:01-55:02:10, 55:07, 55:10, 55:12-55:13, 55:16, 55:18-55:19, 55:22-55:23, 55:26-55:27, 55:30, 55:32, 55:34-55:35, 55:37 <sup>w</sup> , 55:39, 55:41-55:43, 55:46-55:48, 55:50, 55:61-55:63, 55:65, 55:67, 55:69-55:72, 55:77, 55:80-55:83N, 56:01:01:01-56:01:11, 56:07-56:08, 56:14-56:17, 56:19N-56:20:02, 56:22-56:24, 56:26-56:29, 56:33-56:36, 56:38N-56:42, 56:44-56:50, 56:52-56:55:01:02, 59:01:01:01-59:10N, 73:01-73:02, 78:04, 78:08
<b>7</b>	240 bp 270 bp	<b>1070 bp</b>	*51:156 *51:06:01-51:06:04, 51:45, 51:62, 51:64, 51:135, 51:194	*07:218, 07:220, 08:118, 14:01:01:01-14:09, 14:11-14:19, 14:21-14:36, 14:38-14:45, 14:47-14:61, 15:37-15:38:02, 15:185, 15:323, 15:335, 15:364, 15:368, 15:435, 18:01:01:01-18:09, 18:12:01-18:15, 18:17N-18:20, 18:23N-18:34, 18:36-18:38, 18:40-18:55, 18:57, 18:59-18:68, 18:70-18:88, 18:90-18:100, 18:102-18:104, 18:106-18:109, 18:111-18:145, 27:28, 27:62, 39:32, 39:43, 39:48, 40:51, 40:113, 40:163, 40:174, 56:31, 67:06, <b>C*01:30, C*06:207, C*07:516, C*07:521, C*08:51, C*08:114, C*12:87, C*14:76</b>

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<b>g<sup>4</sup></b>	105 bp	<b>800 bp</b>	*51:07:01-51:07:02, 51:214, 51:222	*13:58, 15:202, 15:239, 15:308, 18:01:01:01-18:03:01, 18:04:01-18:06, 18:08-18:15, 18:17N-18:28, 18:30-18:32, 18:34-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:78, 18:80-18:106, 18:108-18:124, 18:126-18:135, 18:137-18:145, 35:20:01- 35:20:02, 35:28, 35:72, 35:95, 35:226, 35:296, 37:01:01:01-37:01:05, 37:01:07- 37:05, 37:07-37:20, 37:22-37:25, 37:27, 37:29-37:56, 37:58-37:59, 37:62-37:66, 37:68-37:71, 40:185, 40:209, 40:308, 40:350, 40:365, 44:83, 44:134, 49:03, 52:01:01:01-52:01:12, 52:01:14-52:01:30, 52:03-52:05, 52:07-52:15, 52:17-52:21:02, 52:24-52:31:02, 52:33-52:69, 52:71-52:75, 53:09, 53:17:01-53:17:02, 53:28, 53:38, 53:40, 78:05-78:06
<b>g<sup>4</sup></b>	85 bp	1070 bp	*51:08:01:01-51:08:02, 51:20, 51:44N, 51:97, 51:141, 51:153	*08:118, 18:113, 37:04:01-37:04:02, 44:190, 52:19
<b>10</b>	160 bp	1070 bp	*51:01:09, 51:01:21, 51:01:25, 51:10, 51:24:02-51:24:04, 51:197, 51:217	*07:78, 07:84, 27:14, 27:81, 27:130, 40:06:01:01-40:06:04:02, 40:06:06- 40:06:16, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298:01-40:298:02, 40:306-40:307, 40:311, 40:313, 40:317-40:318, 40:330, 40:340-40:342, 40:348-40:350, 40:354, 40:361N-40:364, 52:54, 54:11, 56:20:02, 73:01-73:02, <b>C*05:152, C*07:463</b>
	245 bp		*51:21, 51:36, 51:101, 51:143, 51:153, 51:157, 51:197	*08:09, 08:84, 13:46, 13:53, 14:37, 15:42, 15:83, 35:60, 35:276, 39:06:01-39:06:05, 39:34, 39:57, 39:62, 39:64, 39:83, 39:90, 39:109, 39:127, 39:129, 39:132, 41:01:01- 41:01:05, 41:05-41:07, 41:09, 41:12, 41:14, 41:16, 41:20-41:22, 41:25-41:26, 41:28- 41:30, 41:32-41:35, 41:37, 41:44, 41:50, 41:53-41:54, 42:04, 45:08, 46:18, 50:45, 50:49, 52:37, 52:71, 54:01:01-54:02, 54:04- 54:05N, 54:07-54:08N, 54:10-54:25, 54:27- 54:32, 54:34-54:37, 55:01:01-55:01:06, 55:01:08-55:03, 55:05, 55:07, 55:10-55:13, 55:15-55:21, 55:23, 55:25-55:48, 55:50, 55:52-55:85, 55:87, 56:23, 56:54, 59:01:01:01-59:03, 59:05-59:08, 59:10N, 78:07, <b>C*05:152, C*07:463, C*12:183, C*14:92</b>
<b>11</b>	245 bp	1070 bp	*51:10, 51:16, 51:31, 51:34, 51:82, 51:93	*07:78, 07:84, 13:02:01:01-13:02:22, 13:08- 13:09, 13:14-13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37-13:38, 13:40-13:42,

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<b>12</b>	495 bp	1070 bp	*51:11N	
<b>13</b>	200 bp	1070 bp	*51:12	
<b>14<sup>4</sup></b>	105 bp	1070 bp	*51:13:01-51:13:02, 51:92:01-51:92:02, 51:172	*13:46, 15:137, 35:235, 35:276, 39:06:01-39:06:05, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 39:109, 39:127, 39:129, 39:132, 40:86, 40:330, 41:50, 45:02, 49:50, 50:09, 52:14, 52:75, 55:13, 55:58, 56:22, 59:03, 73:01-73:02, <b>C*05:152</b>
<b>15<sup>4</sup></b>	100 bp 230 bp	<b>800 bp</b>	*51:14 *51:19, 51:101	*35:276, 39:06:01-39:06:05, 39:57, 39:62, 39:64, 39:83, 39:90, 39:109, 39:127, 39:129, 39:132, 50:49, 52:71
<b>16</b>	170 bp	1070 bp	*51:15, 51:35, 51:62, 51:106:01-51:106:02, 51:223, 51:225	*13:03, 13:48, 15:73, 15:303, 35:291, 40:71, 44:10, 44:15:01:01-44:15:01:02, 44:18, 44:140, 45:01:01-45:01:03, 45:04-45:07, 45:11-45:21, 46:11, 49:01:01:01-49:01:07, 49:01:09-49:03, 49:06, 49:08-49:14, 49:16-49:17, 49:19N-49:49, 50:01:01:01-50:02, 50:04-50:08, 50:10-50:13, 50:15-50:19, 50:32, 50:34-50:38, 50:40-50:44, 50:46-50:48, 50:50-50:55, 52:25:01-52:25:02, 54:03, 54:33, 56:01:01:01-56:01:04, 56:01:06-56:02:02, 56:04:01-56:04:02, 56:07-56:08, 56:13-56:14, 56:16-56:17, 56:20:01-56:20:02, 56:24-56:30, 56:33-56:49, 56:51-56:53, 56:55:01:01-56:55:01:02, 58:73, 59:04, 82:01:01:01-82:03, <b>C*03:19, C*03:102, C*15:15</b>
	195 bp		*51:18	
<b>17<sup>4</sup></b>	105 bp	<b>800 bp</b>	*51:22	*15:376, 18:33, 35:82, 35:85, 35:135, 35:294, 37:57, 39:19:01-39:19:02, 78:03
<b>18</b>	140 bp	<b>800 bp</b>	*51:28	

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<b>19</b>	145 bp	<b>800 bp</b>	*51:10, 51:24:01- 51:24:05, 51:197, 51:199	*07:78, 07:84, 08:09, 08:84, 27:130, 40:06:01:01-40:06:16, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161- 40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298:01- 40:298:02, 40:306-40:307, 40:311, 40:313, 40:317-40:318, 40:330, 40:340-40:342, 40:348-40:350, 40:354, 40:361N-40:362, 40:364, 41:01:01-41:01:05, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20- 41:22, 41:25-41:26, 41:28-41:30, 41:32- 41:35, 41:37, 41:44, 41:50, 41:53-41:54, 42:04, 49:40, 52:54, 54:11, 55:20, 56:20:01-56:20:02, 59:02, 73:01-73:02, <b>C*05:152, C*07:463, C*12:183</b>
<b>20<sup>4</sup></b>	110 bp 200 bp	1070 bp	*51:26 *51:185	*52:09:01
<b>21</b>	130 bp 185 bp	1070 bp	*51:38 *51:27N	*13:42
<b>22</b>	160 bp	1070 bp	*51:01:01:01- 51:01:01:25, 51:01:03- 51:01:08, 51:01:10- 51:02:01:02, 51:02:03- 51:04, 51:06:01-51:06:03, 51:07:01, 51:08:01:01- 51:09:01, 51:09:03-51:14, 51:16-51:24:05, 51:26- 51:46, 51:48-51:53, 51:55-51:78:01, 51:79- 51:88, 51:90-51:92:02, 51:94-51:102, 51:104- 51:115, 51:117, 51:120- 51:131, 51:133-51:143, 51:145-51:147, 51:149N- 51:175, 51:177-51:178N, 51:181-51:217, 51:219- 51:225, 51:227-51:230, 51:232-51:234	*07:65 <sup>w</sup> , 07:206 <sup>w</sup> , 08:26:03, 18:04:01, 18:125, 35:08:05, 35:42:02, 35:185, 39:63, 44:06, 53:01:13, 53:06, 56:05:01 <sup>w</sup> , 56:06 <sup>w</sup> , 78:01:01:01-78:01:02, 78:02:02-78:03, 78:07-78:09
<b>23</b>	210 bp	1070 bp		*07:65, 07:206, 08:26:03, 15:32:02, 18:04:01, 18:125, 35:08:05, 35:42:02, 35:185, 39:63, 40:01:11, 40:58, 46:40:01, 56:05:01, 56:06, 78:01:01:01-78:01:02, 78:02:02-78:03, 78:07-78:09

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25 <sup>4,5,6</sup>	120 bp 175 bp 205 bp	<b>800 bp</b>	*51:38, 51:142 *51:30 *51:53	*13:42, 35:364 <b>C*05:01:38</b> *52:29, 55:54
26 <sup>4</sup>	105 bp	1070 bp	*51:13:01-51:13:02, 51:37, 51:63:01-51:63:02, 51:92:01-51:92:02, 51:97, 51:172, 51:216	*13:04, 13:46, 13:72, 15:04:01:01-15:04:04, 15:16:01:01-15:16:03, 15:67, 15:95, 15:137, 15:155, 15:222, 15:254, 15:293, 15:310, 15:362, 15:408, 35:37, 35:235, 35:265, 35:276, 39:06:01-39:06:05, 39:33- 39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 39:109, 39:127, 39:129, 39:132, 40:86, 40:159, 40:330, 41:30, 41:50, 45:02, 45:09, 46:32, 49:04:01-49:05, 49:50, 50:09, 50:33, 52:14, 52:39, 52:75, 54:14, 55:13, 55:23, 55:32, 55:58, 55:68, 56:22, 56:50, 59:03, 73:01-73:02, <b>C*05:152, C*07:463, C*12:183</b>
27	155 bp 205 bp 345 bp	<b>800 bp</b>	*51:32 *51:33 *51:39	*27:69, 40:213, 58:52 *44:165, 58:53 *37:52, 44:24, 44:181, 81:06 <sup>?</sup>
28	205 bp 255 bp	1070 bp	*51:33 *51:23, 51:108	*44:165, 58:53 *44:15:01:01-44:15:01:02, 44:18, 44:20, 44:47, 44:100, 44:197, 45:01:01-45:03, 45:05-45:07, 45:09, 45:11-45:21, 49:20, 50:02, 52:15
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<b>30<sup>4,5,6</sup></b>	105 bp	<b>800 bp</b>	*51:06:01, 51:06:03-51:06:04, 51:56:01, 51:59, 51:64, 51:135, 51:194, 51:227	*07:02:11, 07:05:03, 15:01:02, 15:09:01-15:09:02, 15:243, 15:252, 15:277-15:278, 15:361, 15:435, 35:251, 40:01:06, 40:26, 44:62, <b>C*02:02:23</b>
<b>31<sup>4</sup></b>	105 bp	1070 bp	*51:13:01-51:13:02, 51:37, 51:63:01-51:63:02, 51:92:01-51:92:02, 51:97, 51:172, 51:216	*13:04, 13:46, 13:72, 15:04:01:01-15:04:04, 15:16:01:01-15:16:03, 15:67, 15:95, 15:137, 15:155, 15:222, 15:254, 15:293, 15:310, 15:362, 15:408, 35:37, 35:235, 35:265, 35:276, 39:06:01-39:06:05, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 39:109, 39:127, 39:129, 39:132, 40:86, 40:159, 40:330, 41:30, 41:50, 45:02, 45:09, 46:32, 49:04:01-49:05, 49:50, 50:09, 50:33, 52:14, 52:39, 52:75, 54:14, 55:13, 55:23, 55:32, 55:58, 55:68, 56:22, 56:50, 59:03, 73:01-73:02, <b>C*05:152, C*07:463, C*12:183</b>
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<b>32</b>	165 bp	1070 bp	*51:16, 51:31, 51:34, 51:82, 51:93	*07:02:11, 07:05:03, 27:04:03, 40:01:06, 40:95, 52:08, 52:67, 78:08, <b>C*02:02:23</b>
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<b>34</b>	260 bp	1070 bp	*51:42	*27:127, 35:45, 35:71, 35:169, 35:309, 44:02:01:01-44:02:07, 44:02:09-44:02:33, 44:02:35-44:02:38, 44:02:40-44:03:16, 44:03:18-44:14, 44:17, 44:19N, 44:21-44:30, 44:32-44:36, 44:38-44:40, 44:43:01-44:46, 44:48-44:53:02, 44:55-44:63, 44:66-44:90, 44:92-44:98, 44:102-44:105, 44:107-44:131, 44:133-44:134, 44:136-44:137, 44:139-44:149N, 44:151-44:157, 44:159-44:165, 44:167-44:183, 44:185-44:189, 44:191-44:192:02, 44:194, 44:196, 44:198N-44:212, 44:214-44:229, 44:231-44:233, 44:235, 44:237N-44:245, 44:247-44:267N, 44:269-44:274, 44:277,



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<b>39<sup>6,7</sup></b>	250 bp	1070 bp	*51:46, 51:64-51:65	*07:218, 07:220, 08:118, 14:05, 14:13, 14:53, 18:14, 40:174, 52:43
<b>40</b>	185 bp	1070 bp	*51:01:01:01-51:01:39, 51:01:41, 51:01:43-51:01:52, 51:01:54-51:24:05, 51:26-51:46, 51:48-51:53,	*07:36, 07:38, 07:81, 07:180, 07:219, 15:13:01-15:13:02, 15:17:01:01-15:17:06, 15:24:01-15:24:02, 15:87, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216,



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	380 bp		*51:169	
<b>42<sup>4</sup></b>	100 bp	<b>800 bp</b>	*51:60	
	135 bp		*51:49	
<b>43<sup>4</sup></b>	115 bp	<b>800 bp</b>	*51:58	
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<b>44</b>	285 bp	<b>800 bp</b>	*51:76, 51:166	*08:39, 15:140, 35:101:02, 35:195, 35:211, 44:185, 54:34 <b>C*01:83<sup>w</sup></b>
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<b>45</b>	145 bp	1070 bp	*51:178N	
	190 bp		*51:52	
<b>46<sup>4</sup></b>	80 bp	<b>800 bp</b>	*51:57	*07:206
	170 bp		*51:123	*55:59
<b>47<sup>4</sup></b>	125 bp	<b>800 bp</b>	*51:20, 51:208	*07:65, 07:134, 08:32, 08:180, 18:03:01-18:03:02, 18:132, 18:142, 35:29:01-35:29:02, 35:69, 35:76, 35:136, 35:186 <sup>w</sup> , 35:229, 35:294, 35:316, 37:37, 39:19:01-39:19:02, 46:40:01 <sup>w</sup> -46:40:02 <sup>w</sup> , 53:23, 56:06, 56:45, 78:01:01:01-78:01:02, 78:03, 78:07-78:08
<b>48<sup>4</sup></b>	95 bp	1070 bp	*51:37, 51:90, 51:92:01-51:92:02, 51:197, 51:216	*07:84, 13:04, 13:35, 13:72, 15:04:01:01-15:04:04, 15:16:01:01-15:16:03, 15:67, 15:95, 15:155, 15:222, 15:254, 15:293, 15:310, 15:362, 15:408, 35:37, 35:235, 35:265, 40:44, 40:159, 41:21, 44:20, 44:47, 44:100, 44:197, 45:09, 46:32, 49:04:01-49:05, 50:33, 50:39, 52:12, 52:26, 52:63, 52:75, 54:14-54:16, 55:23, 55:27, 55:46, 55:68, 56:50, <b>C*07:463, C*12:183</b>
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<b>51<sup>4</sup></b>	85 bp 135 bp 215 bp	<b>800 bp</b>	*51:68 *51:136 *51:72	
<b>52</b>	160 bp	1070 bp	*51:69, 51:107	*18:65, 52:30, <b>A*33:122</b>
<b>53</b>	135 bp 165 bp 260 bp	1070 bp	*51:136 *51:71, 51:174:01-51:174:02 *51:70	*13:105, 55:29  *52:55
<b>54<sup>4</sup></b>	120 bp	1070 bp	*51:74	*08:155, 35:46-35:47, 35:154, 35:207, 35:217, 35:257, 35:278, 40:07-40:08, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232, 41:46, 44:232, 53:30
<b>55<sup>4</sup></b>	250 bp 75 bp 200 bp	1070 bp	*51:124, 51:156 *51:77 *51:75	
<b>56</b>	380 bp	1070 bp	*51:01:01:01-51:01:07, 51:01:09-51:01:14, 51:01:16-51:01:39, 51:01:41-51:01:42, 51:01:44-51:12, 51:16-51:24:05, 51:26-51:36, 51:38-51:41N, 51:43-51:44N, 51:46, 51:48-51:49, 51:51-51:53, 51:55-51:61:02,	*08:03, 08:52, 08:78, 15:361, 27:102, 40:13, 40:19, 40:109, 40:117, 40:292, 40:340, 41:46, 48:18, 49:18:01-49:18:02, 52:01:01:01-52:01:28, 52:01:30-52:11, 52:13, 52:15-52:19, 52:21:01-52:24, 52:27-52:38, 52:40-52:61, 52:64-52:67, 52:69-52:74, 53:19, 56:21, 57:02:01-57:03:03, 57:05, 57:07, 57:09, 57:17, 57:39, 57:42, 57:46, 57:57, 57:63, 57:66, 57:70, 57:80, 57:82, 57:84, 57:94, 57:96,

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			51:64-51:77, 51:79-51:84, 51:86-51:89, 51:91, 51:93-51:96, 51:98N- 51:105, 51:107-51:134, 51:136-51:156, 51:158:01-51:171, 51:173Q-51:181, 51:183- 51:191, 51:193-51:196, 51:198-51:213, 51:215, 51:217-51:219, 51:221- 51:222, 51:224, 51:226, 51:228-51:234	58:08:01-58:08:02, 58:27-58:28:02, 58:65, 59:02, <b>A*24:146</b>
<b>57</b>	145 bp 210 bp	1070 bp	*51:79, 51:178N *51:54, 51:78:01- 51:78:02	*13:17, 13:33, 15:36, 15:89, 15:256, 15:339, 44:02:10, 44:34:01-44:34:02, 44:83, 44:225, 44:245, 44:269, 52:20, 53:09, 53:11-53:13, 53:31, 53:36, 53:38, 56:07, 59:08
<b>58<sup>7</sup></b>	170 bp	1070 bp	*51:80, 51:107, 51:168	<b>A*33:122</b>
<b>59<sup>4</sup></b>	120 bp 240 bp	1070 bp	*51:83 *51:88	
<b>60<sup>4,7</sup></b>	85 bp 190 bp	<b>800 bp</b>	*51:94 *51:84, 51:130	*49:12, 55:87
<b>61<sup>4</sup></b>	100 bp	1070 bp	*51:85, 51:192, 51:214	*27:14, 27:81, 44:20, 44:47, 44:100, 44:197, 50:20, 52:26
<b>62</b>	210 bp 180 bp 250 bp	1070 bp	*51:87, 51:115, 51:181 *51:86, 51:132 *51:95	*49:45, <b>C*07:463</b> *39:57, 50:55
<b>63<sup>4</sup></b>	70 bp 200 bp	1070 bp	*51:91 *51:146	*13:86, 35:02:01:01-35:02:07, 35:02:08 <sup>w</sup> , 35:81, 35:83, 35:95, 35:129N, 35:146, 35:154, 35:162, 35:172, 35:182-35:184, 35:211, 35:220, 35:258, 35:270, 35:273, 35:285, 35:309, 35:311, 35:323, 35:335, 35:339, 35:357, 35:361, 35:366-35:367, 45:12, 50:36, 53:19, 53:36, 58:65
<b>64<sup>4</sup></b>	115 bp 170 bp	1070 bp	*51:67 *51:66, 51:89	*35:314
<b>65<sup>6</sup></b>	185 bp 215 bp	1070 bp	*51:98N *51:103, 51:116, 51:151	*08:62, 18:07:01-18:07:02, 18:29, 18:79, 18:136, 27:23, 35:50, 35:84, 35:162, 35:217, 35:231, 35:280, 35:323, 37:21, 37:67, 40:07-40:08, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232, 41:46
<b>66<sup>6</sup></b>	175 bp 210 bp	1070 bp	*51:109, 51:132 *51:120	
<b>67<sup>4</sup></b>	110 bp 160 bp 230 bp	1070 bp	*51:93, 51:122 *51:231 *51:100	
<b>68</b>	160 bp 190 bp	1070 bp	*51:134 *51:105	*35:358

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<b>69<sup>4</sup></b>	105 bp 225 bp	1070 bp	*51:147 *51:110N	<b>A*02:01:33<sup>w</sup>, A*23:01:14<sup>w</sup></b>
<b>70</b>	160 bp	1070 bp	*51:111, 51:134	
<b>71</b>	185 bp	1070 bp	*51:117, 51:130	*49:12, 55:87
<b>72<sup>4</sup></b>	90 bp 145 bp 170 bp	1070 bp	*51:118N *51:169 *51:164	*39:46 <sup>w</sup> , 44:118 <sup>w</sup>
<b>73</b>	170 bp  295 bp	1070 bp	*51:127, 51:174:01- 51:174:02 *51:149N	*13:105, 55:29, 55:43
<b>74</b>	180 bp	1070 bp	*51:157	*13:06, 13:53, 15:42, 15:86, 15:224, 35:60, 46:18, 54:01:01-54:02, 54:05N, 54:07- 54:08N, 54:10, 54:12-54:13, 54:17-54:25, 54:27-54:32, 54:34-54:38, 55:01:01-55:03, 55:05, 55:07, 55:10-55:12, 55:15-55:16, 55:18-55:19, 55:21, 55:25-55:26, 55:29- 55:31, 55:33-55:40, 55:42-55:45, 55:47- 55:48, 55:50, 55:52-55:57, 55:59-55:67, 55:69-55:80, 55:82-55:85, 55:87, 56:10, 56:23, 56:54, 59:01:01:01-59:01:01:02, 59:05-59:08, 59:10N, <b>C*01:90, C*15:128</b>
<b>75<sup>4,6</sup></b>	95 bp	1070 bp	*51:56:01-51:56:03, 51:158:01-51:158:02	*35:01:10, 35:04:02, 40:28, 49:18:01, 50:14, 53:28, 55:01:04, <b>C*02:02:23,</b> <b>C*12:03:31</b>
<b>76</b>	175 bp 255 bp	1070 bp	*51:168 *51:152, 51:173Q	
<b>77<sup>7</sup></b>	265 bp	1070 bp	*51:160	
<b>78</b>	190 bp	<b>800 bp</b>	*51:184N	
<b>79</b>	235 bp	1070 bp	*51:187	*53:20
<b>80</b>	235 bp	1070 bp	*51:64, 51:148	*07:20, 07:24, 07:60, 07:100, 07:131, 07:220, 07:223, 08:21, 08:25, 08:175, 15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:431, 35:05:01:01-35:05:03, 35:22, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 35:232, 35:368, 40:05:01:01-40:05:01:02, 40:71, 40:174, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 53:14, 55:51, 58:18, <b>C*03:05, C*03:25, C*03:27,</b> <b>C*03:167, C*03:296:01-03:296:02,</b> <b>C*03:335</b>
<b>81<sup>6</sup></b>	185 bp 215 bp	1070 bp	*51:98N *51:167	
<b>82</b>	400 bp	1070 bp	*51:193	*48:02:02-48:02:03, 81:03
<b>83</b>	195 bp 215bp	1070 bp	*51:35 *51:17	
<b>84</b>	140 bp 270 bp	1070 bp	*51:126 *51:04, 51:46,	<b>C*08:114</b> *14:10, 18:22, 18:69 <sup>w</sup> , 18:105,

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	51:56:01-51:56:03, 51:139, 51:227	35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 35:233, 35:287, 37:04:01 <sup>w</sup> -37:04:02 <sup>w</sup> , 40:28, 44:190, 44:203, 44:275, 53:02, 53:06, 53:28, 57:14:01-57:14:02, 58:09, 58:76, <b>C*03:384, C*15:39, C*15:130</b>
<b>85<sup>8</sup></b>	-	<b>Negative Control</b>

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B\*51 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>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>5</sup>Primer mixes 6, 25 and 30 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*51 primer mixes.

<sup>6</sup>Primer mixes 25, 30, 39, 41, 65, 66, 75 and 81 may have tendencies of unspecific amplifications.

<sup>7</sup>Primer mixes 39, 58, 60 and 77 have a tendency to giving rise to primer oligomer formation.

<sup>8</sup>Primer mix 85 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

<sup>w</sup>, might be weakly amplified.

<sup>?</sup>, nucleotide sequence information not available for the primer matching sequence.

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Lot-specific information

## PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	105	95	265	255	270	210	240	105	85	160	245	495
Length of int. pos. control <sup>1</sup>	800	1070	1070	1070	1070	800	1070	800	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	206 5'-gAC 3'	527 5'-TgA 3'	357 5'-Tgg 3'	357 5'-Tgg 3'	355 5'-TCA 3'	357 5'-Tgg 3'	355 5'-CCC 3'	206 5'-gAC 3'	540 5'-gAC 3'	357 5'-Tgg 3'	357 5'-Tgg 3'	3 <sup>rd</sup> I 5'-CTT 3'
3'-primer(s) <sup>3</sup>	272 5'-TgA 3'	583 5'-gTg 3'	583 5'-gTA 3'	571 5'-CCC 3'	583 5'-gTg 3'	527 5'-CCA 3'	583 5'-gTg 3'	272 5'-Tgg 3'	583 5'-gTg 3'	477 5'-gCg 3'	559 5'-CTC 3'	621 5'-ggg 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	200	105	100	170	105	140	145	110	130	160	210	210
Length of int. pos. control <sup>1</sup>	1070	1070	800	1070	800	800	800	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	165 5'-ACC 3'	357 5'-Tgg 3'	357 5'-Tgg 3'	404 5'-CCC 3'	206 5'-gAC 3'	141 5'-ATT 3'	357 5'-Tgg 3'	141 5'-ATT 3'	357 5'-Tgg 3'	141 5'-ATT 3'	141 5'-ATT 3'	141 5'-ATT 3'
3'-primer(s) <sup>3</sup>	322 5'-gTC 3'	419 5'-CgA 3'	414 5'-TgT 3'	559 5'-CAG 3'	272 5'-TgC 3'	242 5'-CCC 3'	463 5'-gCg 3'	211 5'-ggT 3'	445 5'-ggA 3'	259 5'-gTT 3'	311 5'-ggT 3'	309 5'-ATC 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.	120	105	205	205	245	105	105	165	195	260	225	110
PCR product	175 205	155	345	255			225					215
Length of int. pos. control <sup>1</sup>	<b>800</b>	1070	<b>800</b>	1070	1070	<b>800</b>	1070	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	357 5'-Tgg 3' 652 5'-CCg 3'	357 5'-Tgg 3' 756 5'-ACT 3'	49 5'-CAg 3'	49 5'-CAg 3' 357 5'-Tgg 3'	357 5'-Tgg 3'	369 5'-TAC 3' 369 5'-TAC 3'	357 5'-Tgg 3'	435 5'-AAA 3'	141 5'-ATT 3'	355 5'-TCA 3'	355 5'-TCA 3'	133 5'-CCg 3' 704 5'-TgT 3'
3'-primer(s) <sup>3</sup>	445 5'-ggA 3' 523 5'-ACA 3' 727 5'-CCA 3' 787 5'-TCC 3'	419 5'-Cgg 3' 419 5'-CgA 3' 872 5'-TCA 3'	83 5'-TgA 3'	83 5'-TgA 3' 572 5'-gCg 3'	559 5'-CAg 3'	435 5'-TCT 3'	419 5'-Cgg 3' 419 5'-CgA 3' 539 5'-TCC 3'	559 5'-CTC 3'	295 5'-TCA 3'	572 5'-gCg 3'	538 5'-gTC 3'	309 5'-ATC 3' 774 5'-ggT 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.	165	205	250	185	225	100	115	285	145	80	125	95
PCR product	225	250			305	135	215	385	190	170		220
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	1070	<b>800</b>	<b>800</b>	<b>800</b>	1070	<b>800</b>	<b>800</b>	1070
5'-primer(s) <sup>2</sup>	141 5'-ATT 3' 357 5'-Tgg 3'	374 5'-CTA 3' 419 5'-gTC 3'	362 5'-gAC 3' 363 5'-AgC 3' 383 5'-ggA 3'	165 5'-ACC 3'	357 5'-Tgg 3' 670 5'-CCT 3' 736 5'-gCA 3' 754 5'-ACg 3'	106 5'-CCA 3'	141 5'-ATT 3' 488 5'-Cgg 3'	106 5'-CCA 3' 667 5'-AgA 3' 754 5'-ACg 3'	141 5'-ATT 3'	103 5'-CCT 3'	209 5'-ggA 3'	357 5'-Tgg 3'
3'-primer(s) <sup>3</sup>	265 5'-CTA 3' 539 5'-TCT 3'	583 5'-gTg 3'	583 5'-gTg 3'	309 5'-ATC 3'	539 5'-TCC 3' 916 5'-gAT 3'	163 5'-ggC 3'	214 5'-CCA 3'	343 5'-T 3' 916 5'-gAT 3'	244 5'-CTA 3'	141 5'-gCA 3'	292 5'-gTC 3'	412 5'-gTC 3' 412 5'-gTC 3' 538 5'-CCA 3'
Well No.	37	38	39	40	41	42	43	44	45	46	47	48



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Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product	160	155	85 135 215	160	135 165 260	120 250	75 200	380	145 210	170	120 240	85 190
Length of int. pos. control <sup>1</sup>	1070	1070	<b>800</b>	1070	1070	1070	1070	1070	1070	1070	1070	<b>800</b>
5'-primer(s) <sup>2</sup>	142 5' -TCg 3'	363 5' -AgC 3'	97 5' -TCg 3' 357 5' -Tgg 3'	454 5' -ACC 3' 475 5' -CCA 3'	357 5' -Tgg 3'	193 5' -CCA 3' 368 5' -gTg 3' 385 5' -ggA 3'	141 5' -ATT 3' 357 5' -Tgg 3'	317 5' -gCT 3'	141 5' -ATT 3' 142 5' -TCg 3'	448 5' -CCA 3' 454 5' -ACC 3' 457 5' -AgC 3'	141 5' -ATT 3' 357 5' -Tgg 3'	357 5' -Tgg 3'
3'-primer(s) <sup>3</sup>	259 5' -gTT 3'	477 5' -gCg 3'	141 5' -gCA 3' 453 5' -TCT 3' 530 5' -CCT 3'	583 5' -gTg 3'	453 5' -TCT 3' 479 5' -CgA 3' 479 5' -CCA 3' 481 5' -gTg 3' 578 5' -TgA 3'	272 5' -TgA 3'	177 5' -AAA 3' 514 5' -CTg 3'	412 5' -gTT 3'	244 5' -CTA 3'	583 5' -gTg 3'	218 5' -gCC 3' 555 5' -CCg 3'	403 5' -gCA 3' 505 5' -gCC 3' 505 5' -gCT 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. PCR product	100 210	180 250	70 200	115 170	185 215	175 210	110 160 230	160 190	105 225	160	185	90 145 170
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	357 5' -Tgg 3'	357 5' -Tgg 3'	397 5' -gCT 3' 411 5' -CAA 3' 529 5' -AgA 3'	138 5' -TTg 3' 145 5' -CAA 3' 200 5' -TCg 3'	97 5' -TCC 3' 127 5' -ggT 3'	357 5' -Tgg 3'	141 5' -ATT 3' 435 5' -AAA 3'	121 5' -gCT 3' 154 5' -ACA 3'	141 5' -ATT 3'	154 5' -ACA 3' 155 5' -CgC 3'	357 5' -Tgg 3'	267 5' -Ag 3' 646 5' -Acg 3' 670 5' -CCT 3'
3'-primer(s) <sup>3</sup>	418 5' -gTC 3'	493 5' -CCT 3' 496 5' -gAC 3'	559 5' -CAg 3'	272 5' -TgA 3'	272 5' -TgA 3'	488 5' -CCA 3' 496 5' -gAC 3'	259 5' -gTC 3' 331 5' -CTC 3'	272 5' -TgA 3'	206 5' -CCA 3' 327 5' -TTC 3'	272 5' -TgA 3'	494 5' -TCg 3' 505 5' -gCT 3'	317 5' -ggA 3' 774 5' -ggT 3'
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

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Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	170	180	95	175	265	190	235	235	185	400	195	140
PCR product	295			255					215		215	270
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	357 5' -Tgg 3'	420 5' -TTA 3'	379 5' -ACC 3'	362 5' -gAA 3'	266 5' -ACg 3'	166 5' -CCT 3'	77 5' -CTT 3'	363 5' -AgC 3'	96 5' -TTA 3'	652 5' -CCg 3'	408 5' -ggT 3'	355 5' -TCA 3'
			379 5' -ACT 3'	374 5' -CTA 3'					127 5' -ggT 3'		431 5' -CgA 3'	485 5' -CAA 3'
				448 5' -CCA 3'								
3'-primer(s) <sup>3</sup>	479 5' -CgA 3'	559 5' -CgT 3'	435 5' -TCT 3'	583 5' -gTg 3'	2 <sup>nd</sup> I 5' -TCg 3'	317 5' -ggA 3'	272 5' -TgA 3'	559 5' -CAg 3'	272 5' -TgA 3'	916 5' -gAC 3'	583 5' -gTg 3'	583 5' -gTg 3'
	479 5' -CCA 3'											
	487 5' -CgT 3'											
	610 5' -C.g 3'											
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

<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.

101.561-24/03 – including *Taq* pol., IFU-01  
 101.561-24u/03u – without *Taq* pol., IFU-02

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

Lot No.: **6G5**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*51 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.:	201444501	201444502	201675803	201894904	201444505	201444506	201444507	201444508	201894909	201444510	201444511	201444512	201444513	201444514	201444515	201675816
IHC cell line <sup>1</sup>		B*																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*52:01	*73:01	-	+	-	-	-	+	-	+	-	+	+	-	-	+	-	-	-
3	9011 E4181324	*52:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*37:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
6	9353 SM	*39:01	*51:01	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*18:01		-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
8	9025 DEU	*35:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01		-	-	+	-	-	+	-	-	-	+	-	-	-	-	-	-	-
11	9051 PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01	-	+	+	-	-	+	+	-	-	-	-	-	-	-	-	-	+
19	9038 BM16	*18:01		-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
24	9035 JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01		-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01	-	-	+	-	-	+	-	-	-	-	+	-	-	-	-	-	-
41	9055 H0301	*14:02		-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.561-24/03 – including *Taq* pol., IFU-01  
 101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **6G5**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*51 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.:	201444517	201444518	201444519	201558520	201444521	201444522	201444523	201444524	201444525	201444526	201894927	201444528	201444529	201444530	201675831	201444532
	IHCW cell line <sup>1</sup>			B*																
1	9001	SA		*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707		*52:01	*73:01	-	-	+	-	-	-	-	-	+	-	-	+	-	+	
3	9011	E4181324		*52:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	
4	9275	GU373		*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	9009	KAS011		*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353	SM		*39:01	*51:01	-	-	-	-	-	+	-	+	-	-	-	+	-	-	
7	9020	QBL		*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025	DEU		*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR		*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3		*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051	PITOUT		*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB		*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM		*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA		*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075	DKB		*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007		*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282	CTM3953540		*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	9257	32367		*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
19	9038	BM16		*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005		*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064	AMALA		*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056	KOSE		*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124	IHL		*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035	JBUSH		*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049	IBW9		*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285	WT49		*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191	CH1007		*07:05	*51:01	-	-	-	-	-	+	-	+	-	-	-	+	-	-	
28	9320	BEL5GB		*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU		*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH		*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	9019	DUCAF		*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297	HAG		*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098	MT14B		*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104	DHIF		*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302	SSTO		*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17		*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065	HHKB		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	9099	LZL		*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315	CML		*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	9134	WHONP199		*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055	H0301		*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	9066	TAB089		*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076	T7526		*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057	TEM		*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239	SHJO		*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	
46	9013	SCHU		*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045	TUBO		*51:01		-	-	-	-	-	+	-	+	-	-	-	+	-	-	
48	9303	TER-ND		*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.561-24/03 – including Taq pol., IFU-01  
 101.561-24u/03u – without Taq pol., IFU-02

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Lot No.: **6G5**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*51 SSP subtyping kit <sup>2</sup>																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201444533	201444534	201444535	201444536	201444537	201558538	201444539	201444540	201444541	201444542	201444543	201444544	201444545	201444546	201444547	201444548
IHCW cell line <sup>1</sup>		B*																		
1	9001 SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*52:01 *73:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
3	9011 E4181324	*52:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
4	9275 GU373	*15:10 *53:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
5	9009 KAS011	*37:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*39:01 *51:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
7	9020 QBL	*18:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*35:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
9	9026 YAR	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*44:03			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*57:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
13	9004 JESTHOM	*27:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01 *15:20			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01 *55:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*14:01 *56:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02 *56:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
27	9191 CH1007	*07:05 *51:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02 *44:03			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*41:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01 *35:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01 *27:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02 *46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01 *50:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01 *44:03			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.561-24/03 – including *Taq* pol., IFU-01  
 101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **6G5**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*51 SSP subtyping kit <sup>2</sup>																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201444549	201444550	201444551	201444552	201894953	201444554	201444555	201444556	201444557	201894958	201444559	201894960	201444561	201444562	201444563	201444564
IHC cell line <sup>1</sup>			B*																	
1	9001	SA	*07:02	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
4	9275	GU373	*15:10	*53:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025	DEU	*35:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3	*54:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007	*40:02		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282	CTM3953540	*08:01	*55:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	9257	32367	*14:01	*56:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056	KOSE	*35:03		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124	IHL	*40:02	*56:02	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191	CH1007	*07:05	*51:01	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17	*15:01	*35:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065	HHKB	*07:02		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013	SCHU	*07:02		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	9303	TER-ND	*35:01	*44:03	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	

101.561-24/03 – including *Taq* pol., IFU-01  
 101.561-24u/03u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **6G5**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-B*51 SSP subtyping kit<sup>2</sup></b>																			
				Well															
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
			Prod. No.:	201444565	201444566	201894967	201444568	201444569	201444570	201444571	201444572	201894973	201444574	201444575	201558576	201558577	201558578	201558579	201675880
	<b>IHWC cell line<sup>1</sup></b>	<b>B*</b>																	
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
11	9051 PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTV3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.561-24/03 – including *Taq* pol., IFU-01  
 101.561-24u/03u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **6G5**

Lot-specific information

CELL LINE VALIDATION SHEET									
HLA-B*51 SSP subtyping kit <sup>2</sup>									
					Well				
					81	82	83	84	
					Prod. No.:	201675881	201675882	201894983	201894984
IHCW cell line <sup>1</sup>			B*						
1	9001	SA	*07:02		-	-	-	-	
2	9280	LK707	*52:01	*73:01	-	-	-	-	
3	9011	E4181324	*52:01		-	-	-	-	
4	9275	GU373	*15:10	*53:01	-	-	-	-	
5	9009	KAS011	*37:01		-	-	-	-	
6	9353	SM	*39:01	*51:01	-	-	-	-	
7	9020	QBL	*18:01		-	-	-	-	
8	9025	DEU	*35:01		-	-	-	-	
9	9026	YAR	*38:01		-	-	-	-	
10	9107	LKT3	*54:01		-	-	-	-	
11	9051	PITOUT	*44:03		-	-	-	-	
12	9052	DBB	*57:01		-	-	-	-	
13	9004	JESTHOM	*27:05		-	-	-	-	
14	9071	OLGA	*15:01	*15:20	-	-	-	-	
15	9075	DKB	*40:01		-	-	-	-	
16	9037	SWEIG007	*40:02		-	-	-	-	
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	
18	9257	32367	*14:01	*56:01	-	-	-	-	
19	9038	BM16	*18:01		-	-	-	-	
20	9059	SLE005	*40:01		-	-	-	-	
21	9064	AMALA	*15:01		-	-	-	-	
22	9056	KOSE	*35:03		-	-	-	-	
23	9124	IHL	*40:02	*56:02	-	-	-	-	
24	9035	JBUSH	*38:01		-	-	-	-	
25	9049	IBW9	*14:02		-	-	-	-	
26	9285	WT49	*58:01		-	-	-	-	
27	9191	CH1007	*07:05	*51:01	-	-	-	-	
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	
29	9050	MOU	*44:03		-	-	-	-	
30	9021	RSH	*42:01		-	-	-	-	
31	9019	DUCAF	*18:01		-	-	-	-	
32	9297	HAG	*41:02		-	-	-	-	
33	9098	MT14B	*40:01		-	-	-	-	
34	9104	DHIF	*38:01		-	-	-	-	
35	9302	SSTO	*44:02		-	-	-	-	
36	9024	KT17	*15:01	*35:01	-	-	-	-	
37	9065	HHKB	*07:02		-	-	-	-	
38	9099	LZL	*15:01		-	-	-	-	
39	9315	CML	*08:01	*27:05	-	-	-	-	
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	
41	9055	H0301	*14:02		-	-	-	-	
42	9066	TAB089	*46:01		-	-	-	-	
43	9076	T7526	*46:01		-	-	-	-	
44	9057	TEM	*38:01		-	-	-	-	
45	9239	SHJO	*42:01	*50:01	-	-	-	-	
46	9013	SCHU	*07:02		-	-	-	-	
47	9045	TUBO	*51:01		-	-	-	-	
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	



101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **6G5**

**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, 13, 17, 20, 21, 25, 27, 32, 33, 36, 39, 42 to 46, 51 to 53, 55, 57 to 62, 64, 66 to 73, 75 to 79, 81 to 84 were available. The specificities of the primers in primer solutions 5, 17, 20, 27, 32, 39, 42, 44, 46, 51, 57, 61, 67, 75, 77, 82 and 84 were tested by separately adding one or two additional 5'-primers, respectively one, two or three additional 3'-primers.

In primer solutions 13, 21, 25, 33, 43, 45, 53, 55, 59, 60, 62, 66, 69, 71 and 73 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 36, 52, 58, 64, 68, 70, 72, 76, 78, 79, 81 and 83 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 7, 16, 38, 39, 41, 42, 44, 54, 63, 65 and 75 one, two or three of the 5'-primers were not possible to test. In primer solution 15, 18, 20, 26 to 28, 42, 46, 51, 57, 61 and 67 one or two of the 3'-primers were not possible to test. Additional primers in primer solutions 18, 26, 28, 29, 31, 37, 41, 47, 48 and 54 were tested by separately adding one 5'-primer and/or one 3'-primer.

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **6G5**

Lot-specific information

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **6G5**

Lot-specific information

101.561-24/03 – including *Taq* pol., IFU-01  
101.561-24u/03u – without *Taq* pol., IFU-02

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

Lot No.: **6G5**

Lot-specific information

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**Manufacturer:**

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**Tel:** +46-8-717 88 27

**Fax:** +46-8-717 88 18

**E-mail:** [olerup-se@caredx.com](mailto:olerup-se@caredx.com)

**Web page:** <http://www.olerup.com>

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**Fax:** 610-344-7989

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**Web page:** <http://www.olerup.com>

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