

101.566-12/04 – including *Taq* polymerase  
101.566-12u/04u – without *Taq* polymerase

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“Instructions for Use” (IFU)

Lot No.: **5R3**

Lot-specific information  
**Olerup SSP<sup>®</sup> HLA-B\*39**

<b>Product number:</b>	101.566-12/04 – including <i>Taq</i> pol. 101.566-12u/04u – without <i>Taq</i> pol.
<b>Lot number:</b>	5R3
<b>Expiry date:</b>	2026-11-01
<b>Number of tests:</b>	12 tests – Product No. 101.566-12/12u 4 tests – Product No. 101.566-04/04u
<b>Number of wells per test:</b>	44+1
<b>Storage - pre-aliquoted primers:</b>	dark, between -15°C and -25°C
- PCR Master Mix:	between -15°C and -25°C
- Adhesive PCR seals	RT

**This Product Description is only valid for Lot No. 5R3.**

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\*39 LOT (6L3)**

- |  |
|--|
| <ul style="list-style-type: none"> <li>• The product documentation has been updated for new alleles of IMGT 3.50.0</li> <li>• The kit resolution focuses on common and well documented (CWD) alleles<sup>1</sup>.</li> </ul> |
|--|

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

The HLA-B\*39 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP<sup>®</sup> HLA-B\*39* lot was made (**Lot No. 6L3**).

The HLA-B\*39 primer set is unchanged compared to the previous *Olerup SSP<sup>®</sup> HLA-B\*39* (**Lot No. 6L3**).

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



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Well **45** contains Negative Control primer pairs, that will amplify the majority 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 200 base pairs.

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

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

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



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## PRODUCT DESCRIPTION

### HLA-B\*39 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*39:01 to B\*39:193 alleles.

#### PLATE LAYOUT

Each test consists of 45 PCR reactions in a 48 well cut PCR plate. Wells 46 to 48 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	43	44	NC	empty	empty	empty

The 48 well cut PCR plate is marked with ‘HLA-B\*39’ in silver/gray ink.

Well No. 1 is marked with the Lot Number ‘5R3’.

Wells 1 to 44 – HLA-B\*39 high resolution primers.

Well 45 – 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.

**Please note:** When removing each 48 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

#### INTERPRETATION

Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B\*39 alleles will be amplified by some primer mixes. For further details see Specificity Table.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*39 alleles, i.e. **B\*39:01 to B\*39:193**, recognized by the HLA Nomenclature Committee in October 2022<sup>1,2</sup> will be amplified by the primers in the HLA-B\*39 subtyping kit<sup>3</sup>.

The HLA-B\*39 kit enables separation of the confirmed HLA-B\*39 alleles as listed in the IMGT/HLA database 3.29.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-B\*39 alleles is listed below.

The HLA-B\*39 kit also enables identification of many null and alternatively expressed alleles.



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The following HLA-B\*39 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
B*39:01:05, 39:59	9	B*39:41, 39:77	13
B*39:19:02, 39:134, 39:169	10	B*39:62, 39:64	30
B*39:25N, 39:44	17	B*39:87N, 39:93	33
B*39:26, 39:51	4		

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2022-October-12, release 3.50.0, [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 following alleles will give rise to identical amplification patterns with the HLA-B\*39 subtyping kit. These alleles can be distinguished by the HLA-B low resolution and/or the respective HLA-B kits.

**Alleles**

B\*39:82, 39:107, 39:136, 39:156, B\*14:53  
B\*39:104, B\*38:41



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

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2017-August-10, release 3.29.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).



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### RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B\*39 homo- and heterozygotes is available upon request.



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**SPECIFICITY TABLE**

**HLA-B\*39 SSP subtyping**

**Specificities and sizes of the PCR products of the 44+1 primer mixes used for HLA-B\*39 SSP subtyping**

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-B*39 alleles <sup>3</sup>	Other amplified HLA-Class I alleles
<b>1</b>	230 bp	<b>800 bp</b>	*39:01:01:01-39:01:01:29, 39:01:03:01-39:01:24, 39:01:26-39:05:04, 39:07-39:20, 39:22-39:29, 39:31:01:01-39:31:01:02, 39:35, 39:37:01:01-39:41, 39:44-39:46, 39:48-39:49, 39:51-39:56, 39:58-39:61, 39:63, 39:65-39:72, 39:75-39:81, 39:84-39:89, 39:91-39:101, 39:103-39:105, 39:108, 39:110-39:111, 39:113-39:126, 39:130-39:131, 39:133N-39:135, 39:137-39:139N, 39:142N-39:153, 39:155, 39:157N-39:173, 39:175N-39:177, 39:179-39:185, 39:188-39:193	*08:55, 15:69, 15:186, 15:449, 15:494, 18:168, 35:471, 38:01:01:01-38:07, 38:09, 38:11-38:14, 38:16-38:19, 38:21-38:22, 38:24-38:29, 38:31-38:35, 38:38-38:44, 38:46-38:49, 38:51, 38:53-38:62, 38:64, 38:66-38:102, 38:160-38:173Q, 40:184, 40:424, 58:20, 67:01:01-67:07, <b>C*04:188, C*05:70, C*06:40, C*07:137:01-07:137:02, C*14:63</b>
<b>2</b>	170 bp	1070 bp	*39:01:01:01-39:01:01:29, 39:01:03:01-39:01:37, 39:03:01:01-39:07, 39:09:01:01-39:09:05, 39:11-39:12:01:02, 39:14:01:01-39:15, 39:18-39:19:02, 39:22, 39:24:01-39:38Q, 39:40:01N-39:48, 39:50-39:51, 39:53, 39:55-39:57, 39:59-39:62, 39:64-39:82, 39:84-39:87N, 39:90-39:95N, 39:97N-39:98, 39:100, 39:102-39:104, 39:106-39:109, 39:111-39:125, 39:127-39:130, 39:132-39:134, 39:136-39:142N, 39:144, 39:146N-39:153, 39:155-39:161N, 39:163, 39:165-39:169, 39:171-39:174, 39:176-39:179, 39:181-39:183, 39:185, 39:187-39:193	*07:69, 07:85:01-07:85:02, 07:180, 07:306, 08:65, 08:226, 08:228, 08:295, 14:01:01:01-14:01:07, 14:01:09-14:20, 14:22-14:35, 14:37-14:41N, 14:43-14:47, 14:50-14:53, 14:55-14:56, 14:58-14:72N, 14:74-14:98, 14:100N-14:113N, 15:09:01-15:10:08, 15:18:01:01-15:18:10, 15:23, 15:37, 15:51-15:52, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:161, 15:176, 15:186, 15:197:01-15:198, 15:200, 15:221, 15:226N, 15:229, 15:238, 15:243, 15:252, 15:263, 15:275:01-15:275:02, 15:290, 15:292-15:294N, 15:306-15:307, 15:311-15:314, 15:323, 15:329, 15:335, 15:337-15:338, 15:351, 15:354, 15:376, 15:380N, 15:382, 15:388, 15:414, 15:426-15:427, 15:433-15:436, 15:439, 15:445, 15:447, 15:451, 15:455, 15:487N, 15:498, 15:503, 15:506, 15:526, 15:530, 15:548, 15:563, 15:570, 15:573, 15:607, 15:611-15:612, 15:620, 15:643, 18:33, 37:57, 38:01:01:01-38:02:11, 38:04-38:05, 38:08-38:15, 38:17-38:25, 38:27, 38:29-38:45, 38:47-38:53,



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3 <sup>5,6</sup>	200 bp	800 bp	*39:05:01:01-39:05:05, 39:07-39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37:01:01-39:37:01:02, 39:43, 39:49, 39:55- 39:56, 39:113, 39:118, 39:147N, 39:149, 39:161N, 39:163, 39:165- 39:168, 39:170, 39:172, 39:174, 39:186	38:55Q-38:73, 38:75-38:102, 38:160- 38:165N, 38:167-38:173Q *07:16, 07:27, 07:37:01-07:38, 07:50, 07:75:01:01-07:75:01:02, 07:91, 07:180, 07:207, 07:219, 07:228:01-07:228:02, 07:306, 07:453, 08:03, 08:23, 08:54:01- 08:54:02, 08:110, 08:133, 08:139, 08:255, 08:271, 08:295, 14:14, 14:18, 14:56, 14:73, 15:03:01:01-15:03:13, 15:09:01-15:10:08, 15:18:01:01-15:18:10, 15:23, 15:29:01:01- 15:29:01:02, 15:37-15:38:02, 15:47:01- 15:47:02, 15:49, 15:51-15:52, 15:54, 15:62, 15:64:01-15:64:02, 15:68-15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98- 15:99, 15:103, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131- 15:134, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:185-15:186, 15:197:01-15:198, 15:200, 15:210, 15:220:01:01-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242:01-15:243, 15:251:01-15:253, 15:263, 15:266, 15:274- 15:275:02, 15:281-15:282, 15:290, 15:292- 15:293, 15:306-15:307, 15:311-15:314, 15:323, 15:329, 15:335, 15:337-15:338, 15:351, 15:354, 15:364, 15:368-15:369, 15:376, 15:379-15:380N, 15:382, 15:388- 15:389, 15:414, 15:426-15:427, 15:429, 15:433-15:436, 15:439, 15:444-15:445, 15:447-15:448, 15:451, 15:455, 15:475, 15:487N, 15:498, 15:502-15:503, 15:506, 15:509, 15:517, 15:526-15:527, 15:530, 15:539, 15:545, 15:548, 15:556, 15:560, 15:570-15:571, 15:573, 15:582, 15:588, 15:607, 15:610-15:611, 15:614:01:01- 15:614:01:02, 15:616Q-15:617, 15:619- 15:620, 15:628, 15:643, 15:645, 18:01:01:01-18:15, 18:17N-18:226, 35:21, 35:24:01-35:25, 35:124-35:125, 35:142, 35:162, 35:188, 35:190, 35:267, 35:287, 35:320, 35:487, 35:494, 35:519, 35:557, 37:01:01:01-37:01:11, 37:01:13-37:21, 37:23-37:36, 37:38-37:59, 37:61-37:94, 37:96-37:107, 38:01:01:01-38:02:11, 38:04- 38:12, 38:15, 38:17-38:25, 38:27, 38:29- 38:40, 38:42-38:45, 38:47-38:102, 38:160- 38:173Q, 40:12:01-40:12:02, 40:149, 41:22, 42:11, 44:130, 44:156, 44:221, 44:224, 44:258, 48:01:01:01-48:01:09, 48:01:11- 48:02:01, 48:02:03-48:47, 48:49-48:55, 49:25, 50:77, 51:37, 51:45, 51:63:01- 51:63:02, 51:97, 51:116, 51:176, 51:179, 51:216, 51:218, 51:251, 51:354, 52:16, 52:27, 52:39, 52:77, 52:97, 53:02, 53:06, 53:28, 53:43:01-53:43:02, 56:31,
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<b>4<sup>4</sup></b>	65 bp	1070 bp	*39:58, 39:83:02	*08:01:24, 14:42:02, 35:01:64, 35:03:17, 35:29:03, 38:74, 38:166, 51:01:68
	145 bp		*39:26	
	385 bp		*39:51	*14:83
<b>5<sup>4,6</sup></b>	105 bp	<b>800 bp</b>	*39:01:01:01-39:01:01:29, 39:01:03:01-39:01:08, 39:01:10-39:01:29, 39:01:31-39:02:01:02, 39:03:01:01-39:06:02:08, 39:06:04-39:09:05, 39:11-39:12:01:02, 39:14:01:01-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:24:02, 39:25N-39:39:01, 39:40:01N-39:48, 39:50-39:62, 39:64-39:82, 39:83:02, 39:84-39:88, 39:90-39:95N, 39:97N-39:98, 39:100, 39:102-39:103, 39:106-39:109, 39:111-39:125, 39:127-39:130, 39:132-39:142N, 39:144, 39:146N-39:161N, 39:163, 39:165-39:169, 39:171-39:174, 39:177-39:179, 39:181-39:183, 39:185, 39:187-39:193	*07:02:32, 07:85:02, 08:01:24, 14:01:01:01-14:02:02, 14:02:04, 14:02:07-14:20, 14:22-14:41N, 14:42:02-14:92, 14:94-14:113N, 15:189:01-15:189:02, 18:01:37, 35:01:64, 35:03:17, 35:26, 35:29:03, 67:01:01, 67:03-67:04, 67:06-67:07, <b>C*07:01:59</b>
<b>6</b>	170 bp	<b>800 bp</b>	*39:02:01:01-39:02:03, 39:08, 39:13:01-39:13:02, 39:23, 39:39:01-39:39:02, 39:49, 39:88, 39:101, 39:105, 39:110, 39:162, 39:164, 39:184	*07:27, 07:50, 07:400, 07:453, 08:04:01-08:04:02, 08:17, 08:54:01-08:54:02, 08:110, 08:285, 14:73, 15:03:01:01-15:03:11, 15:03:13, 15:47:01-15:47:02, 15:54, 15:61-15:62, 15:64:01-15:64:02, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220:01:01-15:220:04, 15:235, 15:242:01-15:242:02, 15:251:01-15:251:03, 15:253, 15:266, 15:274, 15:281-15:282, 15:369, 15:379, 15:389, 15:397, 15:429, 15:444, 15:448, 15:475, 15:502, 15:517, 15:527, 15:539, 15:545, 15:556, 15:560, 15:571, 15:582, 15:588, 15:610, 15:614:01:01-15:614:01:02, 15:616Q-15:617, 15:628, 18:01:01:01-18:03:02, 18:05:01:01-18:06, 18:08-18:15, 18:17N-18:28, 18:30-18:32, 18:34-18:78, 18:81-18:97, 18:99-18:101, 18:103-18:106Q, 18:108-18:124, 18:126-18:135:01:02, 18:137-18:154N, 18:156:01:01-18:181, 18:183-18:217, 18:219-18:226, 37:01:01:01-37:01:11, 37:01:13-37:20, 37:23-37:25,



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<b>7<sup>4</sup></b>	120 bp	1070 bp	*39:68, 39:155	*08:55, 40:424, 67:03, <b>A*02:403, A*03:378, A*24:327, A*30:63, A*68:108, C*05:70, C*06:40, C*07:137:01-07:137:02, C*07:868, C*15:51</b>
	165 bp		*39:17	*50:49, 55:123
	220 bp		*39:03:01:01-39:03:02, 39:14:01:01-39:14:01:03, 39:24:01-39:24:03, 39:29, 39:37:01:01-39:37:01:02, 39:76, 39:120, 39:144, 39:152, 39:182, 39:184-39:185	*08:55, 38:19
<b>8<sup>6</sup></b>	180 bp	1070 bp	*39:04, 39:47, 39:50, 39:174	*07:214, 07:327, 08:01:24, 13:140, 14:28, 14:46, 14:111, 15:189:01-15:189:02, 35:01:64, 35:03:17, 35:26, 35:29:03, 38:33, 38:63, 40:36, 40:77, 40:86, 40:314, 40:330, 40:368, 48:07, 49:26, 51:01:68, <b>C*02:111</b>
	405 bp		*39:46	*44:546
<b>9<sup>4</sup></b>	100 bp	<b>800 bp</b>	*39:01:05, 39:18	*15:69, 15:186, 15:265, 15:449, 15:494, 38:01:03, 40:424, <b>C*04:188, C*06:40, C*14:63, C*15:51</b>
	230 bp		*39:06:01:01-39:06:08, 39:57, 39:62, 39:64, 39:83:01-39:83:03, 39:90, 39:109, 39:127, 39:129, 39:132, 39:140-39:141, 39:154, 39:178, 39:186-39:187	*35:276, 50:49, 51:101, 52:71, 52:84, 55:123
	310 bp		*39:59	*18:202
<b>10<sup>4</sup></b>	105 bp	<b>800 bp</b>	*39:19:01-39:19:02	*15:376, 18:33, 35:82, 35:85, 35:135, 35:294, 37:57, 51:22, 78:03
	165 bp		*39:07, 39:91, 39:134, 39:169	*15:69, 15:186, 15:265, 15:449, 15:494, 35:35, 38:88, 58:84, <b>C*06:40, C*07:137:01-07:137:02, C*14:63</b>
	210 bp		*39:09:01:01-39:09:05, 39:43, 39:88, 39:155, 39:158, 39:170-39:171, 39:176	*14:56, 15:38:01-15:38:02, 15:185, 15:335, 15:364, 15:368, 15:610, 15:645, 18:01:01:01-18:01:49, 18:01:51-18:09, 18:12:01-18:15, 18:17N-18:20, 18:22-18:25, 18:27-18:34, 18:36-18:40, 18:42-18:55, 18:57:01-18:57:02, 18:59-18:60, 18:62-18:100, 18:102-18:109, 18:111-18:121, 18:123-18:147, 18:149-18:163, 18:167, 18:169-18:188, 18:190, 18:192-18:204, 18:206-18:216, 18:218-18:226, 35:21, 35:24:01-35:24:02, 35:188, 35:190, 35:287, 35:519, 51:37, 51:45, 51:63:01-51:63:02,



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<b>11<sup>6</sup></b>	170 bp	1070 bp	*39:08, 39:11, 39:18, 39:33, 39:36, 39:40:01N-39:40:02N, 39:53, 39:57	*18:18:01:01-18:18:01:02, <b>C*07:516</b> *07:78, 07:214, 07:246, 07:327, 07:424, 13:18, 13:31, 13:41, 13:73, 13:128, 13:131, 13:145, 13:164, 15:58, 15:73:01:01-15:73:01:02, 15:303, 15:486, 35:156, 35:163, 35:213, 35:413, 38:164, 46:61, 54:10, 54:20, 54:33, 54:40, 55:09, 55:21, 55:37, 55:52, 56:19N, 56:43, 56:51, 56:63, <b>C*01:90, C*01:136<sup>w</sup>, C*01:146:01<sup>w</sup>-01:146:02<sup>w</sup>, C*02:06:01-02:06:02, C*02:47<sup>w</sup>, C*02:111<sup>w</sup>, C*04:23<sup>w</sup>, C*04:100<sup>w</sup>, C*04:108, C*04:221<sup>w</sup>, C*04:335<sup>w</sup>, C*05:22:01<sup>w</sup>-05:22:02<sup>w</sup>, C*05:132, C*05:238<sup>w</sup>, C*05:241, C*05:252, C*06:34:01<sup>w</sup>-06:34:02<sup>w</sup>, C*06:168<sup>w</sup>, C*06:224, C*07:447<sup>w</sup>, C*07:664<sup>w</sup>, C*08:48<sup>w</sup>, C*08:108<sup>w</sup>, C*12:15, C*12:208, C*12:298<sup>w</sup>, C*12:309, C*14:26<sup>w</sup>, C*15:08:01-15:08:02, C*15:74, C*15:103, C*15:127, C*15:148</b>
<b>12</b>	175 bp	<b>800 bp</b>	*39:07, 39:15, 39:29, 39:49, 39:55, 39:91, 39:188	*15:69, 15:186, 15:449, 15:494, 35:35, 38:29, 38:88, 38:96, 58:84, <b>C*15:51</b>
	205 bp		*39:61, 39:99	*40:283 <sup>?</sup>
<b>13<sup>4</sup></b>	80 bp 230 bp	<b>800 bp</b>	*39:77 *39:24:01-39:24:03, 39:28, 39:41-39:42, 39:76, 39:120, 39:152, 39:182, 39:184-39:185	*13:96 *07:348, 15:265, 35:35, 35:468, 37:40, 38:20:01-38:20:02, 58:84, <b>C*08:242, C*15:51</b>
<b>14<sup>4</sup></b>	85 bp	1070 bp	*39:10:01-39:10:02, 39:16-39:17, 39:20, 39:63, 39:89, 39:96, 39:99, 39:126, 39:131, 39:143, 39:145, 39:175N, 39:180	*07:02:01:01-07:02:05, 07:02:07-07:02:77, 07:02:79-07:02:86, 07:02:88-07:07:03, 07:09:01-07:09:02, 07:11-07:12, 07:14:01-07:26, 07:28-07:31:02, 07:33:01-07:35, 07:37:01-07:37:02, 07:39-07:49N, 07:51-07:68:03, 07:70-07:80, 07:82, 07:84, 07:86-07:131, 07:133-07:148, 07:150-07:179, 07:181N-07:182N, 07:184-07:191, 07:193-07:206, 07:208-07:218, 07:220-07:227, 07:229:01-07:235, 07:237-07:272N, 07:274-07:305, 07:307-07:350, 07:352-07:367, 07:369-07:399, 07:401-07:427, 07:429-07:451, 07:454-07:469N, 08:123, 08:132, 08:146, 14:21, 15:11:01-15:11:07, 15:76, 15:101, 15:143, 15:148, 15:152, 15:209N, 15:215, 15:255, 15:284, 15:303, 15:305, 15:350, 15:367, 15:486, 15:509, 15:513, 15:637, 35:01:56, 35:02:06, 35:76, 35:463, 35:561, 40:61, 40:166, 40:513, 42:01:01:01-42:02:02, 42:04-42:10, 42:12-42:21, 42:23-42:25, 42:27-42:32, 44:90, 44:356, 45:06, 54:01:01:01-54:11, 54:13-54:23,



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<b>15<sup>6</sup></b>	145 bp 190 bp	<b>800 bp</b>	*39:54 *39:12:01:01-39:12:01:02, 39:31:01:01-39:31:01:02, 39:38Q, 39:128, 39:178	*08:01:24, 14:28, 18:01:37, 38:84, 49:26, <b>C*07:01:59, C*15:253Q</b>
<b>16<sup>6</sup></b>	165 bp  220 bp	<b>800 bp</b>	*39:14:01:01-39:14:01:03, 39:29, 39:70, 39:126 *39:09:01:01-39:09:05, 39:16, 39:88, 39:155, 39:158, 39:170-39:171, 39:176	*08:55, 35:468, 38:73, 40:424, 51:101, 52:71, 52:84 <b>C*07:137:01-07:137:02</b>
<b>17<sup>4</sup></b>	80 bp 180 bp 205 bp	<b>800 bp</b>	*39:23, 39:44 *39:25N *39:61	*38:72
<b>18</b>	155 bp	<b>800 bp</b>	*39:02:01:01-39:02:03, 39:08, 39:13:01-39:13:02, 39:22-39:23, 39:45, 39:49, 39:101, 39:105, 39:110, 39:162, 39:164, 39:184	*07:400, 07:453, 08:17, 08:38:01-08:38:02, 08:54:01-08:54:02, 08:101, 08:228, 08:285, 14:66, 15:03:01:01-15:03:04, 15:03:06- 15:03:13, 15:47:01-15:47:02, 15:49, 15:54, 15:61-15:62, 15:68-15:69, 15:74, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131- 15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220:01:01-15:220:04, 15:235, 15:242:01-15:243, 15:251:01-15:251:03, 15:253, 15:266, 15:274, 15:281-15:282, 15:369, 15:376, 15:379, 15:389, 15:397, 15:429, 15:444, 15:448, 15:475, 15:502, 15:517, 15:527, 15:539, 15:545, 15:556, 15:560, 15:571, 15:582, 15:588, 15:610, 15:614:01:01-15:614:01:02, 15:616Q- 15:617, 15:628, 18:12:01-18:12:02, 18:178, 18:195, 37:01:01:01-37:01:11, 37:01:13- 37:07, 37:09-37:21, 37:23-37:59, 37:61- 37:66, 37:68-37:94, 37:96-37:107, 38:03- 38:04, 38:25, 40:12:01-40:12:02, 40:149, 41:22, 42:11, 44:130, 44:156, 44:221, 44:224, 44:258, 48:01:01:01-48:01:09, 48:01:11-48:02:01, 48:02:03-48:05, 48:07- 48:15, 48:17-48:38, 48:40-48:55, 49:25, 50:77, 52:16, 52:27, 52:77, <b>C*07:937</b>
<b>19</b>	385 bp	1070 bp	*39:01:01:01-39:01:01:29, 39:01:03:01-39:01:37, 39:03:01:01-39:07, 39:09:01:01-39:10:01, 39:11-39:12:01:02,	*07:02:01:01-07:02:05, 07:02:07-07:12, 07:14:01-07:53, 07:55-07:64, 07:66-07:122, 07:124-07:131, 07:133-07:180, 07:182N, 07:183 <sup>w</sup> , 07:184-07:218, 07:220-07:258, 07:260-07:270, 07:272N-07:289,



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<b>20<sup>4,6</sup></b>	95 bp	<b>800 bp</b>	*39:27, 39:166	*14:63, 14:97, <b>C*07:01:59</b>
<b>21</b>	220 bp	<b>800 bp</b>	*39:01:01:01-39:01:01:29, 39:01:03:01-39:02:03, 39:04-39:05:05, 39:07- 39:13:02, 39:15, 39:17- 39:20, 39:22-39:23, 39:25N-39:27, 39:31:01:01-39:31:01:02, 39:35, 39:38Q-39:41, 39:42 <sup>w</sup> , 39:44-39:46, 39:48-39:49, 39:51-39:56, 39:58-39:61, 39:63, 39:65-39:72, 39:75, 39:77-39:78, 39:80-39:81, 39:84-39:89, 39:91- 39:101, 39:103-39:105, 39:108, 39:110-39:111, 39:113-39:119, 39:121- 39:126, 39:130-39:131, 39:133N-39:135, 39:137- 39:139N, 39:142N- 39:143, 39:145-39:151, 39:153, 39:155, 39:157N- 39:173, 39:175N-39:177, 39:179-39:181, 39:183, 39:188-39:193	*15:69, 15:186, 15:449, 15:494, 18:168, 35:471, 38:01:01:01-38:07, 38:08 <sup>w</sup> , 38:09, 38:11-38:18, 38:21, 38:24-38:29, 38:31- 38:35, 38:38-38:44, 38:46-38:49, 38:51, 38:53-38:62, 38:64, 38:66-38:102, 38:160- 38:173Q, 40:184, 40:424, 58:20, 67:01:01- 67:07, <b>C*04:188, C*05:70, C*07:137:01- 07:137:02</b>
<b>22<sup>5</sup></b>	300 bp	1070 bp	*39:73	*15:554, 35:521, 38:23, 40:233, <b>A*02:84, C*02:57, C*03:97, C*05:104, C*07:181, C*07:328, C*15:149</b>



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For *In Vitro* Diagnostic Use  
MA123 v02 SSP PI Template  
Date: December 2022, Rev. No: 00

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<b>25<sup>7</sup></b>	150 bp 235 bp	1070 bp	*39:01:01:02L	<b>C*07:725, C*15:31</b>
<b>26</b>	265 bp	<b>800 bp</b>		*14:01:01:01-14:02:08, 14:02:10-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:36, 14:38-14:45, 14:47-14:52, 14:54, 14:57- 14:61, 14:63-14:94, 14:97-14:101N, 14:103- 14:113N, 18:44:01-18:44:02, <b>C*01:30,</b> <b>C*06:207, C*12:87, C*14:76</b>
<b>27</b>	180 bp 205 bp	<b>800 bp</b>	*39:38Q, 39:63 *39:32, 39:48	<b>C*15:253Q</b> *13:15, 14:88, 14:96, 18:148, 18:191, 35:96, 35:109, 51:13:01-51:13:02, 51:62, 51:92:01- 51:92:02, 51:106:01-51:106:02, 51:225, 51:281, 52:14:01-52:14:02, 52:25:01- 52:25:02, 52:75, 56:34, 67:06, <b>C*15:39,</b> <b>C*15:130, C*15:195</b>
<b>28<sup>6,7</sup></b>	140 bp 180 bp	1070 bp	*39:56 *39:32-39:33, 39:40:01N- 39:40:02N, 39:74	*13:03, 13:48, 13:120, 13:146, 13:164, 15:58, 15:73:01:01-15:73:01:02, 15:133, 15:229, 15:253, 15:303, 15:460, 15:486, 15:552, 35:03:01:01-35:03:05, 35:03:07- 35:03:35, 35:06, 35:13, 35:36, 35:38, 35:55- 35:56, 35:59:01-35:59:02, 35:70, 35:74- 35:75, 35:84-35:85, 35:98, 35:106, 35:109, 35:127-35:128, 35:136, 35:150:01-35:153, 35:155-35:156, 35:160, 35:163, 35:167, 35:169, 35:179, 35:181, 35:193, 35:195, 35:198, 35:204-35:205:03, 35:221, 35:223, 35:231, 35:235-35:237, 35:242-35:243, 35:246, 35:256-35:257, 35:267, 35:274, 35:278-35:279, 35:281-35:282, 35:290- 35:291, 35:296, 35:298, 35:312, 35:320, 35:326, 35:329, 35:344, 35:349, 35:354- 35:355, 35:358, 35:360, 35:362, 35:364, 35:371, 35:375, 35:381N, 35:394-35:395, 35:397-35:399, 35:413, 35:415, 35:420, 35:422-35:424, 35:432, 35:434-35:436, 35:438, 35:440, 35:442, 35:450-35:452, 35:455, 35:457, 35:460Q, 35:469, 35:478, 35:482, 35:486, 35:489, 35:496, 35:507N, 35:510-35:511, 35:521, 35:527, 35:540, 35:543-35:544, 35:546, 35:554, 35:561, 35:563, 35:568, 38:30, 38:65, 40:71, 44:10, 44:339, 45:14, 46:11, 46:61, 50:39 <sup>w</sup> , 50:40, 51:13:01-51:13:02, 51:15, 51:62, 51:92:01- 51:92:02, 51:106:01-51:106:02, 51:225, 51:281, 52:14:01-52:14:02, 52:25:01- 52:25:02, 52:75, 53:04, 53:31, 53:33, 54:03,



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<b>30<sup>4,6</sup></b>	65 bp	<b>800 bp</b>	*39:18, 39:35, 39:64	*15:69, 15:265, 15:494, 38:32, 38:98, 51:101, 52:84, <b>C*04:188, C*05:70, C*06:40, C*14:63, C*15:51</b>
	140 bp 190 bp		*39:75, 39:133N *39:52, 39:62	<b>C*07:175</b> *38:54, <b>A*02:403, A*03:378, A*24:327, A*30:63, A*68:108</b>
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<b>32</b>	190 bp 225 bp	1070 bp	*39:89 *39:79	<b>C*06:40, C*14:63</b>
<b>33<sup>4</sup></b>	120 bp 150 bp 230 bp	1070 bp	*39:93, 39:180 *39:133N *39:87N	*15:414, 38:58, 38:75  *15:226N, 38:165N, <b>C*01:56N</b>
<b>34<sup>4</sup></b>	105 bp	1070 bp	*39:86	*15:320
<b>35<sup>4</sup></b>	85 bp	1070 bp	*39:92	*08:119, 14:24, 35:226, 57:12, 58:64
<b>36</b>	245 bp	1070 bp	*39:102	
<b>37<sup>4</sup></b>	90 bp	1070 bp	*39:95N	
<b>38<sup>4</sup></b>	90 bp	1070 bp	*39:97N	
<b>39</b>	440 bp	1070 bp	*39:98	
<b>40</b>	465 bp	1070 bp	*39:116N	
<b>41</b>	200 bp	1070 bp	*39:108, 39:120	
<b>42<sup>6</sup></b>	135 bp	1070 bp	*39:09:01:01-39:09:05, 39:88, 39:112, 39:158, 39:170-39:171, 39:176	*15:32:01-15:32:02, 15:299, 15:583, 18:18:01:01-18:18:01:02, 35:433, 37:51, 58:121, <b>C*07:168</b>
<b>43</b>	530 bp	1070 bp	*39:01:01:01-39:01:01:29, 39:01:03:01-39:17, 39:19:01-39:20, 39:22- 39:34, 39:37:01:01-39:51, 39:53-39:59, 39:61-39:81,	*08:13, 08:25, 08:40, 08:55, 08:171, 08:205, 13:01:01:01-13:01:14, 13:01:16-13:02:33, 13:02:35-13:04, 13:06, 13:08-13:15, 13:17- 13:18, 13:21-13:23, 13:25-13:30, 13:32- 13:40, 13:42-13:45, 13:47, 13:49N-13:53,



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Lot-specific information

				56:89, 59:01:01:01-59:11, 78:04, 78:08, 78:10
<b>44</b>	150 bp	1070 bp	*39:139N	*15:209N, 40:507N, <b>C*07:491:02N</b>
<b>45<sup>9</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\*39 SSP subtypings.

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 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.

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

<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 3 and 22 have a tendency giving rise to primer oligomer formation.

<sup>6</sup>Primer mixes 3, 5, 8, 11, 15, 16, 20, 24, 28, 30 and 42 may have tendencies of unspecific amplifications.

<sup>7</sup>Primer mixes 25 and 28 may give rise to a long unspecific amplification product of approximately 600 bp. This should be disregarded when interpreting the B\*39 typings.

<sup>8</sup>Primer mix 24 may give rise to a lower yield of HLA-specific PCR product than the other B\*39 primer mixes.

<sup>9</sup>Primer mix 45 contains a negative control, which will amplify the majority of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.

Abbreviations

w: might be weakly amplified.

?: nucleotide sequence information not available for the primer matching sequence.



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For *In Vitro* Diagnostic Use

MA123 v02 SSP PI Template

Date: December 2022, Rev. No: 00

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### PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	230	170	200	65 145	105	170	120 165	180 405	100 230	105 165	170	175 205
				385			220		310	210		
									255			
Length of int. pos. control <sup>1</sup>	<b>800</b>	1070	<b>800</b>	1070	<b>800</b>	<b>800</b>	1070	1070	<b>800</b>	<b>800</b>	1070	<b>800</b>
5'-primer(s) <sup>2</sup>	351 5'-CAT 3'	142 5'-TCT 3'	142 5'-TCT 3'	246 5'-gAA 3'	246 5'-gAA 3'	142 5'-TCT 3'	363 5'-AgC 3'	106 5'-CCA 3'	357 5'-Tgg 3'	206 5'-gAC 3'	419 5'-gTT 3'	44 5'-ggC 3'
	355 5'-CTC 3'		419 5'-gTC 3'	419 5'-gTT 3'	246 5'-gAA 3'		420 5'-TTA 3'	420 5'-TTC 3'	486 5'-ACg 3'	368 5'-gTC 3'		412 5'-ATg 3'
	355 5'-CCC 3'				246 5'-gAA 3'		463 5'-TgC 3'	646 5'-ACg 3'	3 <sup>rd</sup>   5'-Agg 3'	419 5'-gTC 3'		
3'-primer(s) <sup>3</sup>	544 5'-ggT 3'	272 5'-TgC 3'	292 5'-gTA 3'	272 5'-TgA 3'	311 5'-ggT 3'	272 5'-Tgg 3'	544 5'-ggT 3'	246 5'-TAT 3'	544 5'-ggT 3'	272 5'-TgC 3'	539 5'-TCC 3'	79 5'-gTA 3'
			292 5'-gTA 3'	344 5'-ACg 3'	311 5'-ggT 3'			559 5'-CTC 3'	839 5'-ATA 3'	544 5'-ggT 3'	539 5'-TCC 3'	85 5'-CAA 3'
			292 5'-gTA 3'	524 5'-CAA 3'				916 5'-gAC 3'		583 5'-gTg 3'	564 5'-ACT 3'	544 5'-ggT 3'
			583 5'-gTg 3'								565 5'-CAT 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	80	85	145	165	80	155	385	95	220	300	85	185
	230		190	220	180							
					205							
Length of int. pos. control <sup>1</sup>	<b>800</b>	1070	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	1070	<b>800</b>	<b>800</b>	1070	<b>800</b>	1070
5'-primer(s) <sup>2</sup>	112 5'-CCT 3'	264 5'-ACg 3'	97 5'-TCg 3'	360 5'-CAC 3'	44 5'-ggC 3'	142 5'-TCT 3'	44 5'-ggC 3'	246 5'-gAA 3'	363 5'-Agg 3'	341 5'-ggC 3'	246 5'-gAA 3'	103 5'-CCT 3'
	355 5'-TCA 3'	272 5'-CTA 3'	97 5'-TCC 3'	368 5'-gTC 3'	407 5'-gg 3'							103 5'-CCT 3'
	362 5'-gAC 3'		141 5'-ATg 3'	419 5'-gTA 3'	503 5'-CCg 3'							
	365 5'-CAC 3'		419 5'-gTT 3'									
	733 5'-ATA 3'											
3'-primer(s) <sup>3</sup>	311 5'-ggT 3'	311 5'-ggT 3'	246 5'-TAT 3'	544 5'-ggT 3'	79 5'-gTA 3'	250 5'-CCg 3'	259 5'-gTT 3'	299 5'-TCA 3'	544 5'-ggT 3'	355 5'-gAA 3'	292 5'-gTC 3'	246 5'-TAT 3'
	544 5'-ggT 3'		563 5'-CgA 3'		544 5'-ggT 3'	259 5'-CTC 3'	259 5'-gTT 3'				292 5'-gTC 3'	246 5'-TAT 3'
	774 5'-ggT 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.	150	265	180	140	245	65	175	190	120	105	85	245
PCR product	235		205	180		140		225	150			
						190			230			
Length of int.	1070	800	800	1070	800	800	800	1070	1070	1070	1070	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	-149	361	141	419	357	142	412	361	142	709	256	357
	5'-ggg 3'	5'-AgT 3'	5'-ATT 3'	5'-gTT 3'	5'-Tgg 3'	5'-TCT 3'	5'-ATA 3'	5'-AgT 3'	5'-TCT 3'	5'-AgT 3'	5'-ACg 3'	5'-Tgg 3'
	419		419			385		394				
	5'-gTT 3'		5'-gTT 3'			5'-ggT 3'		5'-ggg 3'				
						527						
						5'-TgA 3'						
3'-primer(s) <sup>3</sup>	44	583	272	518	559	172	544	544	221	774	302	559
	5'-CCg 3'	5'-gTg 3'	5'-TgT 3'	5'-CCC 3'	5'-CgT 3'	5'-CAT 3'	5'-ggC 3'	5'-ggT 3'	5'-ACA 3'	5'-ggT 3'	5'-ggC 3'	5'-CAT 3'
	527		563	559	559	236			251			
	5'-CCg 3'		5'-CgA 3'	5'-CAg 3'	5'-CTC 3'	5'-CCA 3'			5'-CT 3'			
			583	564		251			331			
			5'-gTg 3'	5'-ACT 3'		5'-CCT 3'			5'-CTA 3'			
						280						
						5'-gTC 3'						
						544						
						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
Length of spec.	90	90	440	465	200	135	530	150
PCR product								
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070
pos. control <sup>1</sup>								
5'-primer(s) <sup>2</sup>	493	607	246	246	386	368	283	363
	5'-CTT 3'	5'-CgC 3'	5'-gAA 3'	5'-gAA 3'	5'-gCT 3'	5'-gTC 3'	5'-ACA 3'	5'-Agg 3'
3'-primer(s) <sup>3</sup>	544	3 <sup>rd</sup> I	398	426	544	463	527	471
	5'-ggT 3'	5'-TAT 3'	5'-ggg 3'	5'-TCT 3'	5'-ggT 3'	5'-gCT 3'	5'-CCA 3'	5'-gTT 3'
Well No.	37	38	39	40	41	42	43	44

<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.



0197

For *In Vitro* Diagnostic Use  
MA123 v02 SSP PI Template  
Date: December 2022, Rev. No: 00



101.566-12/04 – including *Taq* polymerase  
101.566-12u/04u – without *Taq* polymerase

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

Lot No.: **5R3**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*39 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.:	202025101	202025102	202025103	202025104	202025105	202025106	202025107	202025108	202025109	202025110	202025111	202025112	202025113	202025114	202025115	202025116
	IHWC 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	9025 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



0197

101.566-12/04 – including *Taq* polymerase  
101.566-12u/04u – without *Taq* polymerase

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Lot No.: **5R3**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-B*39 SSP subtyping kit<sup>2</sup></b>																			
			Prod. No.:	Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				202025117	202025118	202025119	202025120	202025121	202025122	202025123	202025124	202025125	202025126	202025127	202025128	202025129	202025130	202025131	202025132
	IHWC 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	9025 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-		



101.566-12/04 – including *Taq* polymerase  
101.566-12u/04u – without *Taq* polymerase

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Lot No.: **5R3**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*39 SSP subtyping kit <sup>2</sup>																				
				Prod. No.:	Well															
					33	34	35	36	37	38	39	40	41	42	43	44				
					202025133	202025134	202025135	202025136	202025137	202025138	202025139	202025140	202025141	202025142	202025143	202025144				
	IHWC 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	9025 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		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	

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**101.566-12/04 – including *Taq* polymerase**  
**101.566-12u/04u – without *Taq* polymerase**

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**Lot No.: 5R3**

**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 4, 7, 13, 15, 20, 22, 25, 27, 30, 32 to 41 and 44 were available. The specificities of the primers in primer solutions 4, 7, 13, 15, 20, 22, 25, 27, 30, 32 and 35 were tested by separately adding one, two or three additional 5'-primers, and one, two or three additional 3'-primers accordingly. In primer solutions 33, 36, 39, 40 and 44 it was only possible to test the 5'-primers, the 3'-primers were not possible to be tested. In primer solutions 34, 37, 38 and 41 it was only possible to test the 3'-primers, the 5'-primers were not possible to be tested. In primer solutions 1, 5, 8, 13 to 17, 25 and 32 one to four 5'-primers were not possible to be tested. In primer solutions 4, 9, 11, 12, 15, 17, 18, 23, 27, 28 and 30 one, two, three or four 3'-primers were not possible to be tested. In addition, one or more primers in primer solutions 8, 9, 10, 12, 16 and 17 were tested by separately adding one or more 5'- and/or 3'-primers accordingly.



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101.566-12/04 – including *Taq* polymerase  
101.566-12u/04u – without *Taq* polymerase

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

Lot No.: **5R3**

Lot-specific information

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