

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **0R8**

Lot-specific information

## **Olerup SSP<sup>®</sup> HLA-A-B-DR SSP Combi Tray**

<b>Product number:</b>	<b>101.701-24/06 – including <i>Taq</i> pol. 101.701-24u/06u – without <i>Taq</i> pol.</b>
<b>Lot number:</b>	<b>0R8</b>
<b>Expiry date:</b>	<b>2026-06-01</b>
<b>Number of tests:</b>	<b>24 tests – Product No. 101.701-24/24u 6 tests – Product No. 101.701-06/06u</b>
<b>Number of wells per test:</b>	<b>95 +1</b>
<b>Storage - pre-aliquoted primers:</b>	<b>dark, between -15°C and -25°C</b>
- PCR Master Mix:	<b>between -15°C and -25°C</b>
- Adhesive PCR seals	<b>RT</b>

### **This Product Description is only valid for Lot No. 0R8.**

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-A-B-DR SSP COMBI TRAY LOT (5N5)**

The **HLA-A low resolution** specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP<sup>®</sup> HLA-A-B-DR SSP Combi Tray* lot was made (**Lot No. 5N5**). The kit design is based on IMGT/HLA database 3.47.0.

The **HLA-A low resolution** primer set is unchanged compared to the previous *Olerup SSP<sup>®</sup> HLA-A-B-DR SSP Combi Tray* lot (**Lot No. 5N5**).

The **HLA-B low resolution** specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP<sup>®</sup> HLA-A-B-DR SSP Combi Tray* lot was made (**Lot No. 5N5**). The kit design is based on IMGT/HLA database 3.47.0.

The **HLA-B low resolution** primer set is unchanged compared to the previous *Olerup SSP<sup>®</sup> HLA-A-B-DR SSP Combi Tray* lot (**Lot No. 5N5**).

The **HLA-DR low resolution** specificity and interpretation tables have been updated for the HLA-DRB alleles described since the previous *Olerup SSP<sup>®</sup> HLA-A-B-DR SSP Combi Tray* lot was made (**Lot No. 5N5**). The kit design is based on IMGT/HLA database 3.47.0.

The **HLA-DR low resolution** primer set is unchanged compared to the previous *Olerup SSP<sup>®</sup> HLA-A-B-DR SSP Combi Tray* lot (**Lot No. 5N5**).



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **0R8**

Lot-specific information

Well **96** 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.



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **0R8**

Lot-specific information

## PRODUCT DESCRIPTION

### HLA-A-B-DR SSP Combi Tray

#### CONTENT

The primer set contains 5'- and 3'-primers for grouping the HLA-A\*01:01 to A\*80:09N alleles into the corresponding serological groups A1 to A80.

The primer set contains 5'- and 3'-primers for grouping the B\*07:02 to B\*83:01 alleles into the corresponding serological groups B7 to B81 as well as primer pairs for recognizing the Bw4 and Bw6 sequence motifs.

The primer set contains 5'- and 3'-primers for grouping the DRB1\*01:01 to DRB1\*10:43 alleles into the corresponding serological groups DR1 to DR18 as well as primer pairs for recognizing the DRB3, DRB4 and DRB5 groups of alleles.

#### PLATE LAYOUT

Each test consists of 96 PCR reactions in a 96 well PCR plate.

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

The 96 well PCR plate is marked with 'A-B-DR' in silver/gray ink.

Well No. 1 is marked with the Lot No. '0R8'.

Wells 1 to 24 – HLA-A low resolution primers.

Wells 25 to 72 – HLA-B low resolution primers.

Wells 73 to 95 – HLA-DR low resolution primers.

Well 96 – Negative Control.

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

Only HLA-A alleles will be amplified by the 24 wells of the HLA-A low resolution primer set, **wells 1 to 24**, except that a few HLA-B and HLA-C alleles will be amplified by some primer mixes. For further details see Specificity Table.



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

Only HLA-B alleles will be amplified by the 48 wells of the HLA-B low resolution, primer set, **wells 25 to 72**, except that a few HLA-A and HLA-C alleles will be amplified by some primer mixes. For further details see Specificity Table.

Only HLA-DRB alleles will be amplified by the 23 wells of the DR low resolution primer set, **wells 73 to 95**. Thus, the interpretation of DR low resolution typings is not influenced by other HLA class II genes. For further details see Specificity Table.

## UNIQUELY IDENTIFIED ALLELES

### HLA-A

All alleles, i.e. **A\*01:01 to A\*80:09N**, recognized by the HLA Nomenclature Committee in January 2022<sup>1,2</sup> will be amplified by the primers in the HLA-A low resolution primer set, **wells 1 to 24**. The HLA-A alleles will be grouped into their corresponding serological specificities<sup>3</sup>.

The HLA-A alleles will be grouped into their low-resolution groups, except that the following alleles give rise to identical amplification patterns:

Alleles	Alleles
A*01:26, 01:136, 01:192, 01:380:01:01-01:380:01:02, A*11:94, 11:112, 11:211, 11:290, 11:326	A*23:66, 23:99, A*24:14:01:01-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138, 24:188, 24:222N, 24:228, 24:291, 24:296, 24:304, 24:316, 24:324, 24:412, 24:481, 24:515, C*04:01:03
A*01:28, 01:229, 01:299, A*11:282	A*23:104, 23:113N, A*24:02:01:01-24:11N, 24:13:01-24:13:02, 24:17:01:01-24:17:01:02, 24:20:01:01-24:23, 24:25-24:43, 24:45N-24:50, 24:54-24:56:02, 24:58-24:63, 24:66-24:70, 24:72-24:81, 24:83N-24:91, 24:93, 24:95-24:103, 24:105-24:113, 24:115-24:137, 24:139-24:187, 24:189-24:203, 24:205-24:210, 24:212, 24:214-24:221, 24:223-24:227, 24:229-24:242, 24:244-24:290, 24:292-24:295, 24:297-24:303N, 24:305-24:314, 24:317-24:323N, 24:325-24:391, 24:393-24:411, 24:413-24:457, 24:459-24:470, 24:472-24:480, 24:482-24:514N, 24:516-24:526, 24:528-24:550, 24:552-24:554, 24:556N, 24:558-24:565
A*01:43, A*11:271	A*25:78, A*26:01:63, 26:57, A*66:15
A*03:215, 03:225, 03:249, 03:322, 03:414, A*25:77	A*26:92, A*66:42
A*11:11, A*34:19	A*30:01:01:01-30:04:03, 30:06-30:07, 30:09:01:01-30:20, 30:22-30:54, 30:56-30:88, 30:90-30:124, 30:126-30:139, 30:141-30:149, 30:151-30:162, 30:164-30:176, 30:178N-30:185, 30:187-30:200, B*07:260, C*12:328
A*11:116, 11:140, 11:199:01-11:199:02, 11:222, A*66:23	A*31:08, A*33:53
A*11:325, A*24:555	A*31:109, A*33:125, 33:131
A*23:14:01-23:14:02, 23:105, A*24:24, 24:71, 24:315, 24:392, 24:527	A*34:01:01:01-34:01:07, 34:05-34:06, 34:11-34:12, 34:14, 34:16-34:18, 34:23, 34:27, A*66:40



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

### HLA-B

All alleles, i.e. **B\*07:02 to B\*83:01**, recognized by the HLA Nomenclature Committee in January 2022<sup>1,2</sup> will be amplified by the primers in the HLA-B low resolution primer set, **wells 25 to 72**. Most HLA-B alleles will be also grouped into their corresponding serological specificities.

The HLA-B alleles will be grouped into the groups B\*07:xx to B\*83:xx, except that the following alleles give rise to identical amplification patterns:

Alleles	Alleles
B*07:349, B*42:05:01-42:05:02 B*08:26:01-08:26:02, 08:50, 08:62, 08:85, 08:94, 08:242, 08:263, 08:265, 08:272, B*42:07, 42:24, 42:26	B*40:496, B*41:62 B*53:30, B*58:111
B*13:35, 13:59, 13:71, 13:108, 13:140, B*44:135, 44:158, 44:184	B*53:39, B*57:128, B*58:100
B*14:08:01-14:08:02, 14:55, B*39:01:35, 39:30, 39:32-39:33, 39:47, 39:50, 39:74, 39:82, 39:102, 39:107, 39:112, 39:128, 39:136, 39:171, 39:174	B*55:04, 55:08, 55:49, 55:86, B*56:01:05, 56:01:13, 56:15, 56:19N, 56:22
B*18:29, 18:72:01-18:72:03, 18:92, 18:175, B*35:01:55, 35:01:62, 35:32:01-35:32:03, 35:37, 35:53N, 35:64:01-35:64:02, 35:68:01-35:68:02, 35:99, 35:118-35:119, 35:174, 35:369, 35:409, 35:433, 35:523	B*57:67:01, B*58:36

### Notes on Bw assignment

The Bw4 and Bw6 status of HLA-B alleles is based on their serological type:

	Serological Type
Bw4	B5, B5102, B5103, B13, B17, B27, B37, B38(16), B44(12), B47, B49(21), B51(5), B52(5), B53, B57(17), B58(17), B59, B63(15), B77(15)
Bw6	B7, B703, B8, B14, B18, B22, B2708, B35, B39(16), B3901, B3902, B40, B4005, B41, B42, B45(12), B46, B48, B50(21), B54(22), B55(22), B56(22), B60(40), B61(40), B62(15), B64(14), B65(14), B67, B70, B71(70), B72(70), B73, B75(15), B76(15), B78, B81, B82

However, according to the HLA Dictionary<sup>3</sup> there are several exceptions to these associations. This product contains reactions specific to the sequences that code for the Bw4 and Bw6 epitopes. A small number of alleles classified as Bw4 or Bw6 in the HLA Dictionary are not amplified neither by the Bw4 nor the Bw6 primer mix:

Bw Reactivity	Allele
Bw6	B*15:377Q, B*35:01:39, B*35:02:09, B*39:01:15



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

### HLA-DRB

All the HLA-DRB1, -DRB3, -DRB4 and -DRB5 alleles, i.e. **DRB1\*01:01:01 to DRB1\*10:43, DRB3\*01:01 to DRB3\*03:55, DRB4\*01:01 to DRB4\*03:01N, DRB5\*01:01 to DRB5\*02:30**, recognized by the HLA Nomenclature Committee in January 2022<sup>1,2</sup> will be amplified by the primers in the DR low resolution primer set, **wells 73 to 95**. The HLA-DRB alleles will be grouped into their corresponding serological specificities<sup>3</sup>.

The HLA-DRB1, -DRB3, -DRB4 and -DRB5 alleles will be grouped into their low-resolution groups, except that the following alleles give rise to identical amplification patterns:

Alleles	Alleles
DRB1*03:126, DRB1*13:193	DRB1*11:293, DRB1*13:45
DRB1*08:09:02, DRB1*14:15	DRB1*12:57, DRB3*02:111
DRB1*08:20, DRB1*13:18, 13:47, 13:55, 13:158:01-13:158:02, 13:164, 13:232, 13:286	DRB1*13:13, 13:119, 13:154, 13:156, DRB1*14:84, 14:116, 14:144
DRB1*08:31, DRB1*11:05, 11:209	DRB1*13:44, 13:86, 13:206, DRB1*14:183
DRB1*08:41, 08:75, DRB1*11:67, 11:193:01-11:193:02	DRB1*13:235, DRB1*14:98
DRB1*11:264, DRB1*13:05:01:01-13:05:03, 13:07:01-13:07:02, 13:11:01-13:11:02, 13:14:01-13:14:03, 13:21:01:01-13:21:02, 13:42:01-13:42:02, 13:46, 13:49:01-13:50:03, 13:62, 13:100, 13:108, 13:132, 13:136, 13:150, 13:169, 13:189, 13:199, 13:203, 13:229, 13:246, 13:284, 13:302	DRB1*13:314, DRB1*14:37

<sup>1</sup>HLA-A, HLA-B and HLA-DRB alleles listed on the IMGT/HLA web page 2022-January-13, release 3.47.0, [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>Holdsworth, R Hurlley, C K Marsh, S G E Lau, M Noreen, H J Kempenich, J H Setterholm, M Maiers, M: 'The HLA dictionary 2008 : a summary of HLA-A , -B , -C , -DRB1 / 3 / 4 / 5 , and -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR and -DQ antigens', Tissue Antigens, 2009, 73(2), pp. 95-170.



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

## SPECIFICITY TABLE

### HLA-A low resolution primer set

Specificities and sizes of the PCR products of the 24 primer mixes used for HLA-A low resolution SSP typing

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	HLA-A serology <sup>3</sup>	Amplified HLA-A alleles <sup>4</sup>
<b>1<sup>5</sup></b>	120 bp, 145 bp, 225 bp	<b>800 bp</b>	A1, A36	*01:01:01:01-01:04:01:02N, 01:06-01:33, 01:35-01:408, 03:18, 03:135, 03:395, 11:94, 11:112, 11:211, 11:226, 11:271, 11:282, 11:290, 11:326, 25:59, 26:120, 31:200, 32:156, 36:01:01:01-36:12
<b>2<sup>10</sup></b>	175 bp, 215 bp, 255 bp, 365 bp, 415 bp	<b>800 bp</b>	A2, A19, A28, A203, A210	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:22:02, 02:24:01-02:35:01, 02:35:03-02:47, 02:49:01-02:77, 02:78 <sup>w</sup> , 02:79:01-02:97:02, 02:99:01-02:99:02, 02:101:01-02:128, 02:130-02:570:02, 02:572-02:643N, 02:645-02:828, 02:830:01-02:1039
<b>3<sup>6,11</sup></b>	205 bp, 235 bp	1070 bp	A1, A3, A11, A31, A32, A34, A36	*01:12, 01:19, 01:21, 01:126, 01:200, 01:244, 01:360, 02:338, 02:952, 03:01:01:01-03:17:02, 03:19-03:74, 03:76-03:94, 03:96-03:134, 03:136-03:176, 03:178N-03:186, 03:188-03:193, 03:195-03:199, 03:201-03:214, 03:216-03:224, 03:226-03:248, 03:250-03:259, 03:261-03:321, 03:323N-03:342N, 03:344-03:346, 03:348-03:376, 03:378-03:413, 03:415-03:439, 11:03, 11:20, 11:25:01-11:25:02, 11:60, 11:130, 11:158, 11:175, 11:183, 11:209, 11:348, 11:366, 11:381, 24:92, 24:458, 24:551, 24:557, 31:03 <sup>w</sup> -31:04:02 <sup>w</sup> , 31:176, 31:179, 32:04, 32:142, 33:49 <sup>w</sup> , 33:144 <sup>w</sup> , 33:179 <sup>w</sup> , 33:201 <sup>w</sup> , 34:02:01:01-34:04, 34:07-34:10N, 34:13, 34:15, 34:20-34:22, 34:24-34:26N, 36:02, 68:103:01-68:103:02, 74:23
<b>4</b>	190 bp	<b>800 bp</b>	A1, A3, A11, A30, A36, A68	*01:01:01:01-01:01:22, 01:01:24-01:01:47, 01:01:49-01:01:64, 01:01:67-01:01:78, 01:01:80-01:04:01:02N, 01:06-01:07, 01:09:01:01-01:11N, 01:13, 01:15N <sup>w</sup> , 01:16N-01:18N, 01:20-01:29, 01:31N-01:33, 01:35-01:78, 01:80-01:98, 01:100-01:144, 01:146, 01:148, 01:150-01:158, 01:160N-01:166, 01:168-01:177, 01:179N-01:199, 01:201-01:204, 01:206-01:207, 01:209-01:213, 01:215-01:227, 01:229-01:235, 01:237-01:243, 01:245-01:266:02, 01:268-01:270, 01:272-01:278, 01:280-01:313, 01:315-01:375, 01:377-01:390, 01:392-01:395, 01:397-01:402, 01:404-01:408, 02:78, 02:169, 02:829, 03:12, 03:18, 03:88, 03:135, 11:01:01:01-11:27, 11:29-11:52Q, 11:54:01-11:417N, 24:555, 25:43, 25:59, 26:19, 26:72, 26:184, 26:204:01:01-26:204:01:02, 29:67, 29:156, 30:08:01-30:08:02, 30:150, 32:64, 34:19, 36:04, 66:23,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

<b>5</b>	160 bp, 335 bp, 505 bp	1070 bp	A3, A9, A23, A24, A2403, A29, A31, A32	68:13:01, 68:66:01-68:66:02, 68:134, 68:178, 74:19, <b>C*03:365, C*12:131</b> *01:301Q, 03:15, 03:19, 03:30, 03:152, 03:273, 03:347, 11:139, 11:325, 23:01:01:01-23:68, 23:70- 23:120, 24:02:01:01-24:11N, 24:13:01-24:15, 24:17:01:01-24:64, 24:66-24:210, 24:212-24:470, 24:472-24:565, 29:07, 29:49, 31:08, 31:29, 32:05, 32:79, 33:19, 33:53, 33:187, 68:249, <b>C*04:01:03</b>
<b>6</b>	135 bp, 200 bp	<b>800 bp</b>	A9, A23, A24, A29, A80	*11:166, 23:01:01:01-23:56, 23:58-23:65, 23:67- 23:68, 23:70-23:98, 23:100-23:103N, 23:105-23:112, 23:114-23:120, 24:24, 24:71, 24:315, 24:392, 24:527, 29:07, 29:49, 31:29, 31:85, 32:72, 33:187, 80:01:01:01-80:09N, <b>B*18:27</b>
<b>7</b>	175 bp, 205 bp	1070 bp	A2, A3, A9, A23, A24, A2403, A26	*01:301Q, 02:17:02:01 <sup>w</sup> -02:17:04 <sup>w</sup> , 02:804, 03:347, 11:139, 23:14:01-23:14:02, 23:104-23:105, 23:113N, 24:02:01:01-24:11N, 24:13:01-24:13:02, 24:17:01:01-24:50, 24:54-24:56:02, 24:58-24:63, 24:66-24:91, 24:93, 24:95-24:113, 24:115-24:137, 24:139-24:187, 24:189-24:210, 24:212-24:221, 24:223-24:227, 24:229-24:290, 24:292-24:295, 24:297-24:303N, 24:305-24:315, 24:317-24:323N, 24:325-24:411, 24:413-24:457, 24:459-24:470, 24:472-24:480, 24:482-24:514N, 24:516-24:550, 24:552-24:554, 24:556N, 24:558-24:565, 26:16, 30:163, 33:19, 33:119, 68:45, 68:117
<b>8</b>	165 bp, 200 bp	<b>800 bp</b>	A2, A3, A10, A11, A25, A26, A28, A32, A34, A66, A68, A69	*01:51, 01:344, 01:381, 02:55, 02:527, 02:582, 02:644, 02:741, 02:815, 03:24, 03:50, 11:10, 11:183, 11:191, 11:269, 25:01:01:01-25:16, 25:18-25:33, 25:35-25:45, 25:47-25:53, 25:55-25:58, 25:60-25:70, 25:72-25:76, 25:78-25:80, 26:01:01:01-26:01:47, 26:01:49-26:06, 26:08:01:01-26:15, 26:17-26:18, 26:20:01-26:43:02, 26:45-26:63, 26:65-26:71N, 26:73-26:88, 26:90-26:91, 26:93-26:176, 26:178- 26:183, 26:185-26:206N, 26:208-26:220, 29:28, 32:15, 33:51, 34:01:01:01-34:18, 34:20-34:27, 66:01:01:01-66:22, 66:24-66:41, 66:43, 68:01:01:01- 68:177, 68:179-68:249, 68:251N-68:285, 69:01:01:01-69:08
<b>g<sup>5,7</sup></b>	80 bp	<b>800 bp</b>	A2, A3, A25, A32	*01:298, 02:81, 02:124, 02:829, 25:01:01:01-25:45, 25:47-25:58, 25:60-25:76, 25:79-25:80, 32:01:01:01- 32:02, 32:04, 32:06-32:37, 32:39-32:59, 32:61-32:70, 32:72-32:77, 32:81-32:106:01:02, 32:108-32:158, <b>B*07:81, B*08:52, B*18:67, B*38:41, B*38:67,</b> <b>B*49:67, B*51:185, B*53:05:01-53:05:02, B*53:16,</b> <b>B*53:33, B*57:01:38, B*57:60</b>
<b>10<sup>5,7,9</sup></b>	80 bp, 200 bp, 240 bp	<b>800 bp</b>	A10, A26, A43	*01:43, 01:51, 02:644, 11:17, 11:40, 11:223, 11:271, 25:59, 26:01:01:01-26:01:62, 26:01:64-26:02:02, 26:04, 26:07:01-26:20:02, 26:22-26:29, 26:31- 26:43:02, 26:45-26:56, 26:58-26:77, 26:79-26:91, 26:93-26:110, 26:112-26:176, 26:178-26:220, 29:105, 29:164, 33:13, 33:48, 43:01-43:03, 68:84, 68:227



0197

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



101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

Lot No.	Fragment Size	Probe Size	Alleles	SNPs
11 <sup>5</sup>	80 bp, 175 bp, 500 bp	1070 bp	A1, A9, A10, A11, A26, A31, A34, A66	*01:13, 01:26, 01:28, 01:136, 01:176, 01:192, 01:229, 01:299, 01:380:01:01-01:380:01:02, 03:63, 03:88, 11:01:01:01-11:27, 11:29-11:52Q, 11:54:01- 11:270, 11:272Q-11:417N, 24:19, 24:44, 24:555, 26:03:01:01-26:03:01:02, 26:06, 26:21, 26:78, 26:92, 26:111, 26:152, 26:177, 26:193, 30:125, 30:140, 33:184, 34:01:01:01-34:08, 34:10N-34:27, 66:01:01:01-66:01:06, 66:04-66:11, 66:13-66:14, 66:17-66:20, 66:22-66:24, 66:27N, 66:29-66:33, 66:35-66:38, 66:40-66:42, 68:271, 69:02, 74:30, 80:02
12 <sup>5</sup>	125 bp, 160 bp, 190 bp	800 bp	A1, A3, A10, A25, A26, A31, A34, A43, A66, A74	*01:01:56, 01:361N, 02:309, 02:454, 03:01:19, 03:103:02, 11:11, 25:05-25:06, 26:09, 26:54, 26:91, 26:217, 31:03-31:04:02, 31:123, 34:01:01:01-34:27, 43:01-43:03, 66:02:01:01-66:03:01:03, 66:16, 66:19, 66:21, 66:25-66:26Q, 66:28N, 66:34, 66:39N-66:40, 66:43, 68:130:01, 74:01:03
13 <sup>9</sup>	180 bp, 225 bp	1070 bp	A1, A2, A3, A10, A25, A26, A34, A43, A66	*01:13, 01:176, 01:194, 02:34-02:35:03, 02:56:01- 02:56:02, 02:62, 02:103, 02:135, 02:580, 02:741, 02:907, 03:01:01:01-03:01:22, 03:01:24-03:01:82, 03:01:84-03:01:93, 03:01:95-03:07:02, 03:09- 03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:56, 03:58, 03:60-03:71, 03:73-03:87, 03:90- 03:106, 03:109-03:110, 03:112-03:141, 03:143- 03:151, 03:153-03:171, 03:174-03:175, 03:177, 03:179-03:193, 03:195-03:197:02N, 03:201-03:202, 03:204, 03:206-03:210, 03:212-03:218, 03:220- 03:251, 03:253-03:259, 03:261-03:266N, 03:268- 03:272, 03:274-03:329N, 03:331-03:381N, 03:383- 03:397, 03:399-03:412, 03:414-03:428, 03:430- 03:439, 11:116, 11:140, 11:199:01-11:199:03, 11:222, 25:01:01:01-25:05, 25:07-25:35, 25:37- 25:42N, 25:44-25:49N, 25:51, 25:53-25:58, 25:60- 25:64, 25:66-25:80, 26:01:01:01-26:01:74, 26:02:01 <sup>w</sup> -26:02:02 <sup>w</sup> , 26:03:01:01-26:03:01:02, 26:05-26:08:03, 26:10-26:28, 26:29 <sup>w</sup> , 26:30- 26:43:02, 26:45-26:48, 26:49 <sup>w</sup> , 26:50-26:74, 26:76- 26:77, 26:79-26:90, 26:92-26:203, 26:206N-26:220, 30:55, 30:186, 31:24-31:25, 32:26:01-32:26:02, 32:152, 33:61, 33:190, 34:08, 43:01-43:03, 66:01:01:01-66:01:06, 66:04-66:09, 66:10 <sup>w</sup> , 66:11- 66:15, 66:17-66:20, 66:22-66:24, 66:27N, 66:29- 66:33, 66:35-66:38, 66:41-66:42, 68:71, 69:07, 74:13, 74:37
14 <sup>5,9</sup>	80 bp, 115 bp, 200 bp, 240 bp, 460 bp	1070 bp	A26, A29, A31, A34, A36, A68	*02:237, 02:309, 02:454, 02:809, 02:927, 03:01:38, 03:95, 03:123:02, 03:171, 03:231:01, 03:343, 03:428, 11:130, 26:19, 26:22, 26:198, 29:01:01:01- 29:167, 31:03-31:04:02, 31:123, 32:42, 34:04, 36:02, 66:09, 68:19, 68:130:02
15 <sup>5,10,11</sup>	90 bp, 135 bp, 205 bp	1070 bp	A1, A30	*01:13, 01:28, 01:176, 01:194, 01:229, 01:299, 03:43, 03:82, 03:186, 03:395, 11:113, 11:162, 11:282, 30:01:01:01-30:04:03, 30:06-30:20, 30:22- 30:200, 31:35, <b>B*07:260, C*12:328</b>



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

Lot No.	Allele(s)	Product Size	Allele(s)	Product Size
16	240 bp, 380 bp, 410 bp	1070 bp	A24, A31, A32	*02:237, 02:809, 02:927, 03:95, 03:343, 11:306, 29:14, 31:01:02:01-31:211, 32:05, 32:79, 32:128, 33:53, 33:125, 33:131, 74:13
17 <sup>11</sup>	140 bp, 180 bp, 240 bp, 260 bp	1070 bp	A1, A2, A3, A25, A32, A74	*01:07, 01:95, 01:289, 01:298, 03:32, 03:43, 03:82, 03:152, 03:186, 03:219, 03:273, 03:429, 23:64, 24:104, 24:243, 25:03, 25:30, 29:13, 29:39, 29:98, 30:89, 30:177, 31:21, 31:35, 32:01:01:01-32:158, 74:07, 74:33, 80:04
18	200 bp, 390 bp	1070 bp	A24, A31, A32, A33, A68, A74	*02:243:01-02:243:03, 02:929, 24:82, 26:177, 26:207, 29:48, 29:105, 29:164, 31:08, 31:109, 32:05, 32:15, 32:79, 32:93, 33:01:01:01-33:01:16, 33:03:01:01-33:37, 33:39-33:225, 68:29, 68:250, 74:04, 74:21
19	370 bp	800 bp	A2, A19, A68, A74	*01:121, 02:65, 02:407, 02:449, 02:932, 03:246, 03:282, 11:07:02, 11:372, 68:25, 68:262, 74:01:01:01-74:41
20 <sup>9,11,12</sup>	210 bp, 240 bp	800 bp	A2, A25, A28, A68	*02:34-02:35:03, 02:46, 02:48, 02:56:01-02:56:02, 02:62, 02:70, 02:78, 02:103, 02:129, 02:571, 02:580, 02:651, 02:741, 02:907, 11:199:03, 25:05, 25:59, 26:54, 26:122, 68:01:01:01-68:217, 68:219-68:257, 68:259-68:285
21 <sup>5,12</sup>	65 bp, 240 bp, 375 bp, 545 bp	800 bp	A2, A26, A28, A32, A66, A68, A69	*02:55, 02:149:01-02:149:02, 02:243:01-02:243:03, 02:309, 02:644, 02:741, 02:815, 02:842, 02:947, 23:57, 24:82, 25:30, 26:22, 26:177, 29:80, 29:155, 31:41, 32:06, 33:22, 66:06, 66:09, 68:08:02, 68:29, 68:105:01:01-68:105:01:02, 68:157, 68:250, 68:276Q, 69:01:01:01-69:08, 74:35
22 <sup>5,8</sup>	85 bp, 240 bp, 400 bp	800 bp	A2, A36	*02:34-02:35:03, 02:46, 02:48, 02:56:01-02:56:02, 02:62, 02:70, 02:78, 02:103, 02:129, 02:571, 02:576, 02:580, 02:682, 02:741, 02:907, 03:187, 11:155, 11:199:03, 11:226, 31:62, 34:22, 36:01:01:01-36:12, 68:11N, 68:41, 68:230, <b>B*07:439, B*35:491, B*40:359, B*55:96, B*57:65, C*04:31, C*06:137, C*07:569, C*07:990, C*07:994</b>
23 <sup>5,9,10</sup>	80 bp, 160 bp, 240 bp, 495 bp	800 bp	A2, A3, A24, A26, A28, A36, A68, A80	*02:55, 02:237, 02:671, 02:809, 02:927, 03:41, 03:63, 03:75, 03:88, 03:95, 03:177, 03:343, 03:347, 03:377, 03:382, 11:130, 24:18, 24:204, 24:213, 26:03:01:01-26:03:01:02, 26:05-26:06, 26:21, 26:30, 26:78, 26:111, 26:177, 33:24, 33:184, 36:02, 68:05, 68:15, 68:20, 68:109, 68:136, 68:255, 80:01:01:01- 80:01:02, 80:03-80:09N, <b>C*06:187</b>
24 <sup>10,11</sup>	360 bp, 445 bp	1070 bp	A10, A26, A31, A66	*02:135, 02:309, 02:454, 03:01:19, 03:103:02, 25:13, 25:46, 26:07:01-26:07:02, 26:30, 26:65, 26:92, 31:04:01:01-31:04:02, 31:123, 34:09, 66:02:01:01- 66:03:01:03, 66:12, 66:16, 66:21, 66:25-66:26Q, 66:28N, 66:34, 66:39N, 66:42-66:43, 74:01:03

<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-A low resolution 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,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

**Lot No.: 0R8**

**Lot-specific information**

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>The serological reactivity of all HLA-A alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

<sup>4</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>5</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>6</sup>Primer mix 3 may faintly amplify the A\*30:04:01:01-30:04:01:02, 30:04:02-30:04:03, 30:06, 30:09:01:01-30:09:01:02, 30:17, 30:29, 30:46, 30:77, 30:89-30:90, 30:99, 30:103, 30:105, 30:117, 30:139, 30:150, 30:155, 30:160 and 30:183 alleles.

<sup>7</sup>Primer mix 9 and 10 may weakly amplify the A\*34 alleles.

<sup>8</sup>Primer mix 22 might faintly amplify most A\*11 alleles.

<sup>9</sup>Primer mixes 10, 13, 14, 20 and 23 may have a tendency of giving rise to primer oligomer formation.

<sup>10</sup>Primer mixes 2, 15, 23 and 24 may give rise to a lower yield of HLA-specific PCR product than the other HLA-A low primer mixes.

<sup>11</sup>Primer mixes 3, 15, 17, 20 and 24 may have tendencies of unspecific amplifications.

<sup>12</sup>Primer mixes 20 and 21 may generate a false positive band of about 560 base pairs. This band should be disregarded when interpreting HLA-A low resolution typings.

Abbreviations

w: might be weakly amplified.



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

## SPECIFICITY TABLE

### HLA-B low resolution primer set

Specificities and sizes of the PCR products of the 48 primer mixes used for HLA-B low resolution SSP typing

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	HLA-B serol. <sup>3</sup>	Amplified HLA-B alleles <sup>4</sup>
<b>25<sup>5,9</sup></b>	110 bp	<b>800 bp</b>	7, 703, 35, 40, 41, 42, 48, 61	*07:02:01:01-07:02:05, 07:02:07-07:02:84, 07:02:86-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:47, 07:49N-07:52, 07:54-07:59, 07:61-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:163, 07:166-07:208, 07:210-07:222, 07:224-07:225, 07:227-07:234, 07:236-07:300, 07:302-07:342, 07:344-07:345, 07:347-07:358, 07:360Q-07:362, 07:364-07:385, 07:387, 07:389-07:406, 07:408-07:410, 07:412-07:419, 07:421-07:441, 07:443-07:457, 08:79, 08:156, 08:187, 15:138, 15:230, 15:241, 15:297, 35:66, 37:07, 40:15-40:16:01:02, 40:23, 40:32, 40:98, 40:128, 40:136, 40:158, 40:183, 40:198, 40:231, 40:279, 40:355, 40:466, 41:08, 42:05:01-42:05:02, 44:150, 46:87, 48:05, 48:08, 48:15, <b>C*02:23, C*03:260, C*04:77</b>
<b>26</b>	215 bp	1070 bp	8, 44	*08:01:01:01-08:05, 08:07-08:25, 08:27-08:49, 08:51-08:61, 08:63-08:64, 08:66-08:84, 08:86N-08:93, 08:95-08:122, 08:124-08:131, 08:133-08:225, 08:227, 08:229-08:238, 08:240-08:241, 08:243-08:262, 08:264, 08:266-08:271, 08:273-08:292, 13:93, 15:142, 15:180, 15:429, 35:218, 35:256, 37:62, 40:328, 44:49, 44:156, 49:25, 51:68, 51:176, 52:77, <b>C*06:147</b>
<b>27<sup>9</sup></b>	140 bp, 235 bp	1070 bp	7, 8, 13, 15, 35, 4005, 44, 49, 61, 62, 77	*07:20, 07:24, 07:60, 07:100, 07:131, 07:220, 07:223, 07:358, 08:21, 08:25, 08:175, 13:01:01:01-13:04, 13:06-13:08, 13:10-13:23, 13:25-13:38, 13:40-13:57, 13:59-13:66, 13:68-13:96, 13:99-13:171, 15:07:01:01-15:07:03, 15:36 <sup>w</sup> , 15:45, 15:55, 15:68, 15:89:01 <sup>w</sup> -15:89:02 <sup>w</sup> , 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:431, 15:450, 15:524, 35:05:01:01-35:05:06, 35:16-35:17:04, 35:22:01:01-35:22:01:02, 35:30:01:01-35:30:01:02, 35:51:01-35:51:02, 35:58, 35:72, 35:89, 35:97, 35:113-35:114, 35:125, 35:164, 35:199, 35:232, 35:242, 35:318, 35:346, 35:368, 35:389, 35:416, 35:427N, 35:440, 35:459N, 35:472, 35:481, 35:498-35:499, 35:509, 35:519, 35:525, 35:541, 40:05:01:01-40:05:02, 40:71, 40:174, 40:496, 41:62, 44:08 <sup>w</sup> , 44:54, 44:57 <sup>w</sup> , 44:60, 44:106, 44:110, 44:135, 44:158, 44:184, 44:211, 44:213, 46:12, 51:64, 51:148, 53:14, 53:67, 55:51, 58:18, <b>C*03:05:01:01-03:05:01:03, C*03:25, C*03:27, C*03:143, C*03:167, C*03:296:01-03:296:02, C*03:335, C*03:346, C*03:407, C*03:482, C*03:494, C*03:555</b>
<b>28<sup>5,6,7</sup></b>	105 bp, 140 bp, 260 bp	<b>800 bp</b>	12, 13, 14, 15, 17, 18, 21, 27, 35, 39, 40, 41, 44, 45, 47,	*07:68:01-07:68:03, 07:100, 07:218, 07:220, 07:237, 07:262:01-07:262:02, 07:424, 08:71, 08:118, 08:274, 13:01:01:01-13:01:09, 13:01:11-13:04, 13:06-13:13:02, 13:15-13:23, 13:25-13:57, 13:59-13:82, 13:84-13:92, 13:94-13:96, 13:99-13:101, 13:102 <sup>w</sup> , 13:103N-13:105, 13:107-13:171,



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

**Lot-specific information**

48, 49, 50, 14:01:01:01-14:02:08, 14:02:10-14:05, 14:07N, 14:09, 14:11-  
57, 58, 60, 14:19, 14:21-14:36, 14:38-14:54, 14:57-14:95, 14:97-14:101N,  
61, 62, 64, 14:103-14:109, 15:07:01:01-15:07:03, 15:45-15:46, 15:53,  
65 15:55, 15:68, 15:106, 15:126, 15:197:02, 15:207, 15:212,  
15:324, 15:329, 15:331, 15:336, 15:347, 15:360, 15:383,  
15:399, 15:405, 15:431, 15:450, 15:510, 15:559, 15:588, 18:14,  
18:44:01-18:44:02, 18:107, 27:32, 27:106, 27:138, 27:180,  
27:224, 35:05:01:01-35:05:06, 35:22:01:01-35:22:01:02, 35:46-  
35:47, 35:51:01-35:51:02, 35:58, 35:63, 35:66, 35:72, 35:89,  
35:97, 35:137, 35:147, 35:154, 35:182, 35:199, 35:207, 35:217,  
35:232, 35:278, 35:317, 35:368, 35:389, 35:416, 35:427N,  
35:440, 35:450, 35:459N, 35:472, 35:475, 35:481, 35:498-  
35:499, 35:509, 35:519, 35:540-35:541, 38:19, 39:03:01:01-  
39:03:01:03, 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, 39:79, 39:120, 39:144,  
39:152, 39:182, 39:184-39:185, 40:01:01-40:01:39, 40:01:41-  
40:01:76, 40:07, 40:10:01:01-40:10:02, 40:14:01-40:16:01:02,  
40:22N-40:23, 40:25, 40:30-40:36, 40:38, 40:42-40:43, 40:45-  
40:49, 40:51-40:55, 40:58-40:63, 40:65-40:67, 40:69, 40:71-  
40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92,  
40:100-40:102, 40:106, 40:108, 40:110, 40:112-40:114:02,  
40:116-40:118N, 40:121, 40:123-40:126, 40:128-40:130:02,  
40:132, 40:134-40:136, 40:139-40:141, 40:146-40:147, 40:150-  
40:156, 40:158, 40:160:01-40:160:02, 40:163-40:164, 40:166,  
40:168, 40:170-40:172, 40:174-40:175, 40:178-40:179, 40:182-  
40:183, 40:186:01-40:188, 40:191-40:199, 40:204, 40:207-  
40:208, 40:212-40:213, 40:215-40:219, 40:221-40:223, 40:227-  
40:228, 40:231, 40:233-40:242, 40:245:01-40:245:02, 40:247,  
40:249-40:250, 40:252-40:253, 40:257-40:265N, 40:272-  
40:273, 40:277-40:282, 40:285-40:286N, 40:288, 40:298:01-  
40:301, 40:308, 40:310, 40:312, 40:315-40:316, 40:319,  
40:321, 40:323:01-40:327, 40:329, 40:332-40:333, 40:336,  
40:338N-40:339, 40:342, 40:344, 40:346, 40:352-40:353:02,  
40:355, 40:357-40:358, 40:360, 40:367-40:368, 40:370,  
40:372N, 40:377, 40:379-40:383, 40:385-40:386, 40:391-  
40:392, 40:394-40:398, 40:400-40:404, 40:406-40:407, 40:416-  
40:422, 40:424, 40:426N, 40:428N, 40:431, 40:433, 40:436,  
40:439, 40:443, 40:446-40:450, 40:452, 40:456, 40:461-  
40:463, 40:466, 40:469-40:470, 40:474-40:475:02, 40:477,  
40:479-40:480, 40:483N, 40:485-40:486, 40:490-40:491,  
40:495-40:499, 40:501-40:503, 40:506N-40:510N, 41:01:01:01-  
41:58, 41:60-41:69, 41:71-41:75, 42:10, 42:17, 44:02:01:01-  
44:02:31, 44:02:33-44:02:39, 44:02:41-44:02:56, 44:02:58-  
44:02:60, 44:02:61<sup>w</sup>, 44:02:62-44:03:06, 44:03:08-44:03:18,  
44:03:21-44:03:30, 44:03:32-44:03:59, 44:03:61-44:05:05,  
44:07-44:48, 44:50:01-44:82, 44:84:01-44:102, 44:104-44:129,  
44:132-44:155, 44:157-44:193, 44:195N-44:211, 44:213-  
44:223, 44:226-44:230, 44:231<sup>w</sup>, 44:232-44:245, 44:247-  
44:321, 44:322<sup>w</sup>, 44:323-44:346, 44:437-44:444, 44:446-  
44:524, 44:526-44:527, 44:528<sup>w</sup>, 44:529-44:546, 45:01:01:01-  
45:25, 45:27-45:28N, 46:12, 46:84, 47:01:01:02-47:12, 48:12,  
48:14, 48:29, 49:01:01:01-49:02, 49:04:01-49:14, 49:16-49:24,  
49:26-49:30, 49:32-49:67, 49:69-49:76, 50:01:01:01-  
50:02:01:02, 50:04:01-50:20, 50:31-50:33, 50:35-50:42,



0197

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

101.701-24/06 – including *Taq* polymerase  
 101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

Lot-specific information			
			50:44-50:70, 50:72N-50:79, 51:64, 51:203, 51:276, 52:106, 53:14, 53:30, 53:67, 54:38, 55:110, 56:67, 57:11, 57:45, 57:51, 57:69, 57:71, 57:88, 58:02:01:01-58:02:02, 58:06-58:07, 58:18, 58:25, 58:38, 58:43, 58:60, 58:104, 58:111, 58:132, <b>C*01:30, C*01:32:01-01:32:02, C*06:20, C*06:207, C*12:87, C*14:76, C*14:82, C*16:85, C*16:98, C*16:102, C*16:110</b>
<b>29<sup>7</sup></b>	185 bp, 235 bp	<b>800 bp</b>	7, 16, 17, 27, 2708, 37, 38, 39, 3901, 3902, 64, 67 *07:02:32, 07:85:02, 07:197, 14:01:01:01-14:01:05, 14:01:07-14:01:13, 14:07N-14:08:02, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 14:40, 14:46-14:47, 14:49, 14:53-14:55, 14:65, 14:71, 14:77-14:78N, 14:80-14:83, 14:86-14:87, 14:95, 14:97, 14:102-14:105, 14:108Q, 18:01:37, 18:165, 27:01-27:05:15, 27:05:17-27:05:19, 27:05:21-27:05:37, 27:05:39-27:06:01:02, 27:07:04, 27:08-27:10, 27:12:01:01-27:13:02, 27:16-27:18, 27:20, 27:23, 27:26-27:27, 27:29, 27:31, 27:35-27:37, 27:39-27:42, 27:44-27:46, 27:48-27:61, 27:64N-27:69, 27:72-27:75, 27:77-27:80, 27:82-27:124, 27:126, 27:128-27:129, 27:131-27:137, 27:140-27:149, 27:151-27:152, 27:154-27:163, 27:165-27:179, 27:181-27:186, 27:188-27:212N, 27:214, 27:216-27:217, 27:220-27:232, 27:234-27:243N, 27:245-27:248, 27:250, 27:252-27:255, 37:02, 38:01:01:01-38:01:07, 38:01:09-38:01:18, 38:01:20-38:02:02:02, 38:02:04-38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:83N, 38:84 <sup>w</sup> , 38:85-38:88, 38:90-38:97, 38:160-38:174, 39:01:01:01-39:01:01:25, 39:01:03:01-39:01:08, 39:01:10-39:01:25, 39:01:27-39:01:29, 39:01:31-39:02:01:02, 39:03:01:01-39:03:01:03, 39:05:01:01-39:06:02:08, 39:06:04-39:09:05, 39:11, 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-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73-39:75, 39:77, 39:79-39:82, 39:83:02, 39:84-39:88, 39:90-39:91, 39:93-39:95N, 39:97N-39:98, 39:100, 39:102-39:104, 39:106-39:109, 39:111-39:125, 39:127-39:128, 39:130, 39:132, 39:134-39:142N, 39:144, 39:146N-39:161N, 39:163, 39:165-39:169, 39:171-39:174, 39:176-39:177, 39:178 <sup>w</sup> , 39:179, 39:182-39:183, 39:185, 39:187, 40:225:02, 40:429, 40:469, 47:04-47:05, 48:21, 48:26, 67:01:01, 67:03-67:04, 67:06-67:07
<b>30</b>	190 bp	<b>800 bp</b>	7, 14, 35, 38, 39, 44, 47, 57, 65 *07:28, 08:87, 14:02:01:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 14:33-14:39, 14:41N, 14:42:02-14:45, 14:48, 14:50-14:52, 14:56-14:64, 14:67-14:70Q, 14:72N-14:76N, 14:79N, 14:84-14:85N, 14:88-14:94, 14:96, 14:98-14:101N, 14:106-14:107, 14:109, 15:77, 15:189:01-15:189:02, 15:233, 18:166, 27:227, 35:01:64, 35:03:17, 35:26, 35:29:03, 38:05, 38:33, 39:04, 39:129, 40:414, 40:498, 44:16, 44:37:01-44:37:02, 44:64:01-44:64:02, 44:91, 44:132, 44:150, 44:190, 44:268, 44:275, 44:290, 49:61, 51:01:68, 51:261, 51:274, 52:26, 57:04:01-57:04:03, 58:114, <b>A*23:31, A*24:106, C*01:115, C*02:97, C*03:433, C*03:514, C*04:439, C*06:306, C*07:231, C*14:79, C*16:10</b>
<b>31</b>	290 bp	<b>1070 bp</b>	15, 22, 46, 62, 63, 71, 72, 75, 76, 77 *15:01:01:01-15:01:03, 15:01:06-15:01:53, 15:01:55-15:02:12, 15:03:03, 15:04:01:01-15:08:02, 15:10:02, 15:11:01-15:11:03, 15:11:05-15:15:01:02, 15:17:01:01-15:17:07, 15:19-15:21:01:02, 15:24:01-15:28, 15:30:01:01-15:36, 15:38:01-15:40:02, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73:01:01-15:73:01:02,



0197

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				15:75-15:79N, 15:81-15:89:02, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125:01-15:126, 15:128-15:129, 15:135-15:150, 15:152, 15:154-15:155, 15:157, 15:159-15:160:01:02, 15:162-15:172, 15:174-15:175, 15:177-15:179:02, 15:181N-15:185, 15:187-15:196, 15:199, 15:201-15:209N, 15:211, 15:213-15:219, 15:223-15:225, 15:227-15:228, 15:230-15:234, 15:236-15:237, 15:239-15:241, 15:244-15:251:02, 15:256-15:262:02N, 15:264-15:265, 15:267-15:273, 15:276-15:280, 15:283-15:289, 15:291, 15:295-15:305, 15:308-15:310, 15:315-15:322, 15:324-15:328, 15:330-15:334, 15:339-15:346, 15:348-15:350, 15:352-15:353, 15:355-15:361, 15:363:01-15:368, 15:370-15:375N, 15:377Q-15:378, 15:381, 15:383-15:387, 15:390-15:396, 15:398-15:407, 15:409-15:413, 15:415-15:417, 15:419-15:425, 15:428-15:432, 15:437-15:438, 15:440-15:443, 15:446, 15:449-15:450, 15:452-15:454N, 15:456-15:474, 15:476-15:486, 15:488-15:497, 15:499-15:501, 15:505, 15:507-15:508, 15:510, 15:512-15:514, 15:516, 15:518-15:525, 15:528N-15:529, 15:531-15:538, 15:540N-15:545, 15:547, 15:549N, 15:551-15:552, 15:554-15:558, 15:561-15:562N, 15:564-15:569, 15:572, 15:574-15:581, 15:583-15:587, 15:589-15:601, 15:603-15:606, 15:608-15:609, 15:615, 15:618-15:619, 15:621-15:627, 46:01:01:01-46:70, 46:72-46:76, 46:78-46:88, 46:90-46:95N, <b>C*01:73, C*03:02:23, C*05:01:28, C*06:02:93, C*07:02:30, C*08:16:02, C*14:02:27</b>
<b>32<sup>8</sup></b>	165 bp, 225 bp, 285 bp, 330 bp	1070 bp	5, 8, 12, 21, 22, 37, 41, 42, 44, 45, 48, 51, 56, 57, 60, 62, 70, 71, 72, 82	*07:349, 08:01:01:01-08:01:22, 08:01:24-08:01:62, 08:01:64-08:05, 08:08N-08:13, 08:15-08:27, 08:29-08:36, 08:38:01-08:48, 08:50-08:73, 08:75-08:76, 08:78, 08:80-08:86N, 08:88, 08:90-08:106, 08:109-08:110, 08:112-08:155, 08:157-08:163, 08:165-08:199, 08:201-08:226, 08:228-08:244, 08:246-08:250, 08:252N-08:254, 08:256-08:263, 08:265-08:289, 08:292, 13:46, 13:154, 15:03:01:01-15:03:13, 15:09:01-15:10:08, 15:18:01:01-15:18:09, 15:23, 15:29:01:01-15:29:01:02, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64:01-15:64:02, 15:69, 15:72, 15:74, 15:80, 15:83:01:01-15:83:01:02, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197:01-15:198, 15:200, 15:210, 15:212, 15:220:01:01-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242:01-15:243, 15:252-15:253, 15:255, 15:259, 15:263, 15:266, 15:274-15:275:02, 15:281-15:282, 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, 15:369, 15:379-15:380N, 15:382, 15:388-15:389, 15:397, 15:414, 15:426-15:427, 15:433, 15:435, 15:439, 15:444-15:445, 15:447-15:448, 15:451, 15:455, 15:475, 15:487N, 15:498, 15:502-15:504, 15:509, 15:511, 15:517, 15:525-15:527, 15:530, 15:539, 15:548, 15:553, 15:560, 15:563, 15:570-15:571, 15:582, 15:588, 15:607, 15:610-15:612, 15:614:01:01-15:614:01:02, 15:616Q-15:617, 15:620, 15:628, 27:195, 35:87, 37:12, 37:84, 38:30, 39:156, 40:12:01-40:12:02, 40:26, 40:40, 40:136, 40:231, 40:279, 41:01:01:01-41:03:02, 41:05-41:09, 41:11-41:17, 41:19-41:48, 41:50, 41:53-41:61, 41:64-41:75,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				42:01:01:01-42:02:02, 42:04-42:08, 42:10-42:15, 42:17-42:19, 42:21-42:32, 44:02:68, 44:14-44:15:01:02, 44:18:01:01-44:18:01:02, 44:20, 44:62, 44:100, 44:166, 44:213, 45:01:01:01-45:25, 45:27-45:28N, 51:08:01:01-51:08:06, 51:20, 51:36, 51:44N, 51:97, 51:141, 51:153, 51:263, 51:274-51:275, 51:342, 51:354, 52:19, 55:20, 55:56, 56:13, 57:09, 82:01:01:01-82:04, <b>C*03:342, C*07:46, C*07:356, C*07:546, C*12:184, C*15:99, C*16:85</b>
<b>33<sup>7,8,10</sup></b>	165 bp, 190 bp, 390 bp	1070 bp	5, 17, 21, 35, 51, 5102, 5103, 52, 56, 62, 63, 70, 78	*13:62, 15:01:02, 15:09:01-15:09:02, 15:16:01:01-15:17:07, 15:67, 15:95, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:243, 15:254, 15:268, 15:273, 15:277-15:278, 15:356, 15:361-15:362, 15:396, 15:403, 15:408, 15:411, 15:423-15:424, 15:435, 15:446, 15:462, 15:500, 15:516, 15:523, 15:532, 15:550, 15:555, 15:575N, 15:602-15:603, 15:613, 15:619, 18:205, 27:153, 35:01:10, 35:03:32, 35:04:02, 35:251:01, 40:26, 40:28, 44:03:40, 44:62, 44:459, 49:18:01, 50:14, 51:01:01:01-51:01:03, 51:01:05-51:01:71, 51:01:73-51:02:03, 51:02:05-51:08:04, 51:08:06-51:09:03, 51:11N-51:12, 51:13:02-51:14, 51:16-51:23, 51:24:03-51:24:05, 51:26-51:33, 51:37-51:41N, 51:43-51:44N, 51:46, 51:48-51:61:02, 51:63:01, 51:64-51:80, 51:82-51:91, 51:92:02, 51:94-51:98N, 51:100-51:106:01, 51:107-51:130, 51:132-51:142, 51:145-51:147, 51:149N-51:156, 51:158:01-51:196, 51:198, 51:200-51:219, 51:221-51:224, 51:226-51:294, 51:296-51:299, 51:301-51:337, 51:339-51:351, 51:353-51:358, 52:01:01:01-52:01:04, 52:01:06-52:01:14, 52:01:16-52:13, 52:14:02-52:24, 52:25:02-52:57, 52:59-52:66, 52:68-52:96N, 52:98-52:106, 53:28, 56:05:01-56:06, 56:21, 57:01:32, 58:08:01-58:08:02, 78:01:01:02-78:10
<b>34</b>	180 bp	<b>800 bp</b>	13, 22, 55, 60	*07:78, 13:01:01:01-13:02:34, 13:07N-13:09, 13:11, 13:14-13:20, 13:22:01-13:23, 13:25, 13:27-13:34, 13:36-13:45, 13:47, 13:49N-13:50, 13:52, 13:54-13:58, 13:60-13:61, 13:63N-13:70, 13:73-13:78, 13:80-13:85, 13:87-13:107, 13:109-13:119, 13:121-13:126, 13:128-13:130, 13:132-13:139N, 13:141-13:145, 13:147-13:159, 13:161N-13:163, 13:165-13:171, 40:48, 40:377, 45:10, 49:07, 50:31, 54:26, 55:09, 55:22, 55:24, 56:60, 59:09
<b>35<sup>5</sup></b>	100 bp, 195 bp	1070 bp	8, 12, 27, 38, 39, 3902, 44, 45, 48, 60, 70, 71, 72, 82	*07:27, 07:50, 07:219, 07:453, 08:04:01-08:04:02, 08:17, 08:54:01-08:54:02, 08:110, 08:285, 13:97, 14:73, 15:03:01:01-15:03:09, 15:03:11, 15:03:13, 15:47:01-15:47:02, 15:49, 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, 15:220:01:01-15:220:03, 15:235, 15:242:01-15:242:02, 15:253, 15:259, 15:266, 15:274, 15:281-15:282, 15:369, 15:379, 15:389, 15:397, 15:444, 15:448, 15:475, 15:502, 15:511, 15:517, 15:527, 15:539, 15:560, 15:571, 15:582, 15:588, 15:610, 15:614:01:01-15:614:01:02, 15:616Q-15:617, 15:628, 18:37:01-18:37:02, 18:125, 27:18, 27:29, 35:361, 35:545, 37:28, 38:03, 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, 39:173, 39:184, 40:12:01-40:12:02, 40:46, 40:93, 40:430, 42:11, 44:10, 44:15:01:01-44:15:01:02, 44:18:01:01-44:18:01:02, 44:40,



0197

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



101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				44:44, 44:117, 44:130, 44:140, 44:156, 44:210:01-44:210:02, 44:251, 44:339-44:340, 45:01:01:01-45:03, 45:05-45:07, 45:11-45:23, 45:25, 45:27-45:28N, 48:01:01:01-48:05, 48:07-48:30, 48:32-48:40, 48:42-48:53, 49:20, 49:73, 50:02:01:01-50:02:01:02, 50:56, 50:75, 52:16, 55:18, 55:122, 56:44, 56:74, 58:44, 82:01:01:01-82:03, <b>C*04:345, C*05:102, C*05:184, C*05:262, C*08:93, C*15:25</b>
36	280 bp	1070 bp	5, 7, 8, 13, 15, 16, 17, 18, 22, 35, 40, 42, 44, 46, 48, 49, 51, 53, 55, 56, 57, 58, 60, 61, 62, 63, 70, 71, 72, 75, 76, 77, 78	*07:09:01-07:09:02, 07:11, 07:17, 07:162, 07:235, 07:237, 07:255, 07:287, 08:28, 08:35, 08:37, 08:89, 08:107, 08:291, 13:04, 13:10, 13:26:01-13:26:02, 13:72, 13:127, 13:160, 14:56, 15:01:01:01-15:01:04, 15:01:06-15:02:11, 15:03:01:01-15:08:02, 15:11:01-15:16:05, 15:18:01:01-15:21:01:02, 15:23-15:29:01:02, 15:31:01:01-15:36, 15:38:01-15:40:02, 15:43-15:44, 15:46-15:47:02, 15:49-15:57, 15:60-15:62, 15:64:01-15:72, 15:74-15:76, 15:78:01:01-15:82, 15:84-15:85, 15:87-15:89:02, 15:91-15:98, 15:101-15:129, 15:131-15:132, 15:134-15:136, 15:138-15:149N, 15:151-15:161, 15:163-15:167, 15:169-15:176, 15:178-15:187, 15:189:01-15:195, 15:197:01-15:207, 15:209N-15:215, 15:217-15:223, 15:225-15:228, 15:231-15:232, 15:234-15:242:02, 15:244-15:247, 15:249-15:251:03, 15:254-15:268, 15:270-15:272N, 15:274-15:286, 15:288-15:302N, 15:304N-15:311, 15:314-15:322, 15:325-15:328, 15:330-15:333, 15:335-15:337, 15:340-15:341, 15:343-15:355, 15:357-15:360, 15:362-15:395, 15:397-15:399, 15:401-15:402, 15:404-15:410, 15:412-15:415, 15:417-15:419, 15:421-15:422, 15:425-15:426, 15:428-15:434, 15:436-15:438, 15:440-15:444, 15:447-15:454N, 15:456-15:459, 15:461, 15:463N-15:484, 15:487N, 15:489-15:499, 15:501-15:502, 15:504-15:505, 15:507-15:515, 15:517-15:522, 15:524-15:529, 15:531, 15:533-15:540N, 15:542-15:545, 15:547-15:551, 15:554, 15:556-15:562N, 15:564-15:574, 15:576-15:577, 15:579-15:584N, 15:586-15:602, 15:604N-15:610, 15:612-15:618, 15:621-15:628, 18:01:01:01-18:15, 18:17N-18:25, 18:27-18:40, 18:42-18:60, 18:62-18:121, 18:123-18:147, 18:149-18:164, 18:167, 18:169-18:188, 18:190, 18:192-18:204, 18:206-18:216, 18:218-18:219, 27:41, 27:107, 35:01:01:01-35:01:69, 35:05:01:01-35:05:06, 35:07-35:08:15, 35:10-35:11:03, 35:14:01-35:17:04, 35:19-35:21, 35:23-35:30:01:02, 35:32:01-35:32:03, 35:35, 35:37, 35:40N-35:43:01, 35:43:03-35:43:04, 35:45-35:54, 35:57-35:58, 35:61:01-35:64:02, 35:66-35:69, 35:71-35:72, 35:76-35:80, 35:82, 35:86, 35:89-35:94, 35:97, 35:99-35:105, 35:107-35:108:02, 35:110-35:126, 35:130N-35:135, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173:01N-35:178, 35:180, 35:185-35:192, 35:194, 35:196-35:197, 35:200, 35:202-35:203, 35:206-35:210, 35:212, 35:215:01-35:219, 35:222, 35:224-35:229, 35:232, 35:238-35:241, 35:244-35:245, 35:247-35:250, 35:252-35:255, 35:259-35:260, 35:262-35:265, 35:268-35:269, 35:271-35:272, 35:275, 35:277, 35:280, 35:283-35:284, 35:286-35:289, 35:293-35:295, 35:297, 35:299-35:308, 35:310, 35:313-35:315, 35:317-35:319, 35:322, 35:324-35:325, 35:327-35:328, 35:330-35:334, 35:336-35:338, 35:340-35:343, 35:346-35:348, 35:351-35:353, 35:356, 35:359, 35:363, 35:365, 35:368-35:370, 35:373, 35:376, 35:380:01:01-35:380:01:02,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				35:382-35:383, 35:385-35:386, 35:388-35:390N, 35:392-35:393, 35:400-35:402, 35:404-35:406, 35:408-35:409, 35:411-35:412, 35:414, 35:416-35:418, 35:421, 35:426-35:430N, 35:433, 35:437, 35:439:01:01-35:439:01:02, 35:441, 35:444-35:445, 35:447-35:449, 35:453N-35:454, 35:456N, 35:458-35:459N, 35:461N-35:462, 35:464-35:467, 35:470, 35:472-35:473, 35:475-35:476, 35:479-35:481, 35:484:01-35:485, 35:488, 35:490-35:491, 35:493-35:495, 35:497-35:500, 35:502-35:504, 35:506, 35:509, 35:512-35:520, 35:523-35:526, 35:528-35:530, 35:532-35:533, 35:536-35:538, 35:541-35:542N, 37:35, 37:56, 37:94, 38:52, 38:88, 39:07, 39:43, 39:91, 39:134, 39:169, 40:03:01:01-40:03:02, 40:20:01:01-40:20:01:02, 40:38, 40:52, 40:59-40:60, 40:105, 40:158-40:159, 40:222, 40:267, 40:284, 40:352, 40:422, 41:24, 41:30, 41:51, 42:09, 42:32, 44:17, 44:43:01-44:43:02, 44:144, 44:230, 44:256, 44:276, 44:308, 45:09, 46:01:01:01-46:10, 46:12-46:17, 46:19-46:60, 46:62-46:69, 46:71-46:73, 46:75-46:80, 46:82-46:95N, 48:02:01-48:02:03, 48:14, 48:23, 48:25, 49:04:01-49:05:02, 50:33, 51:37, 51:45, 51:63:01-51:63:02, 51:97, 51:216, 51:220, 51:251, 52:39, 52:97, 53:01:01:01-53:03, 53:05:01-53:06, 53:08:01-53:18, 53:20-53:30, 53:32, 53:34-53:35, 53:37-53:41, 53:43:01-53:61, 53:63-53:68, 54:06, 54:09, 54:14, 55:14, 55:23, 55:32, 55:68, 56:03, 56:09, 56:18, 56:31-56:32, 56:50, 57:01:01:01-57:01:32, 57:01:34-57:01:45, 57:06, 57:08, 57:10-57:11, 57:13-57:16, 57:18-57:27, 57:29-57:31:02, 57:33-57:38, 57:40-57:41, 57:43-57:45, 57:47-57:56, 57:58-57:62, 57:64-57:65, 57:67:01-57:69, 57:71-57:75, 57:77-57:79N, 57:81, 57:83, 57:85-57:93, 57:95, 57:97-57:100, 57:102-57:117, 57:119-57:123, 57:125-57:136, 57:138-57:147, 57:149-57:154, 57:156, 58:01:01:01-58:02:02, 58:04-58:07, 58:09-58:19, 58:21-58:26, 58:29, 58:31N-58:33, 58:35-58:64, 58:66-58:72N, 58:74-58:113, 58:115-58:123, 58:125-58:135
37	195 bp	1070 bp	27, 35, 37, 44, 58, 76	*07:27, 07:236, 07:240, 08:126, 08:131, 08:139, 15:12:01-15:12:03, 15:14, 15:19, 15:91, 15:131, 15:161, 15:270, 15:298, 15:304N, 15:518, 15:551, 15:592, 18:54, 18:56, 18:108, 18:132, 18:169, 18:195, 35:45, 35:71, 37:01:01:01-37:01:11, 37:01:13-37:09, 37:12-37:13, 37:15-37:21, 37:23-37:28, 37:30N-37:33N, 37:35-37:36, 37:38-37:66, 37:68-37:94, 37:96-37:99, 37:101-37:102, 38:17, 44:17, 44:43:01-44:43:02, 44:144, 44:230, 44:256, 44:308, 45:09, 46:17, 53:22, 57:93, 57:119, 58:07, <b>A*24:174, C*02:82, C*06:165, C*07:979, C*14:61</b>
38 <sup>5,8</sup>	105 bp, 395 bp, 435 bp	800 bp	5, 7, 15, 41, 42, 62, 63, 70, 71, 75, 77	*07:04:01-07:04:02, 07:25, 07:146, 07:349, 08:187, 15:09:01-15:10:08, 15:13:01-15:13:03, 15:16:01:01-15:18:09, 15:21:01:01-15:21:01:02, 15:23-15:24:02, 15:37, 15:44, 15:51-15:52, 15:66-15:67, 15:72, 15:76, 15:80, 15:87, 15:90, 15:93, 15:95, 15:99, 15:101, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:157, 15:161-15:162, 15:168, 15:176-15:177, 15:186, 15:189:01-15:189:02, 15:196-15:198, 15:200, 15:208, 15:216, 15:221-15:222, 15:226N, 15:229-15:230, 15:238, 15:243, 15:252, 15:254-15:255, 15:263, 15:268, 15:273, 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, 15:356, 15:361-15:362,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				15:376, 15:380N, 15:382, 15:388, 15:394, 15:396, 15:403-15:404, 15:408, 15:411, 15:414, 15:418, 15:420, 15:423-15:424, 15:426-15:427, 15:433-15:436, 15:439, 15:442, 15:445-15:447, 15:451, 15:455, 15:462, 15:487N, 15:498, 15:500, 15:503-15:504, 15:509, 15:516, 15:523, 15:526, 15:530, 15:532, 15:548, 15:550, 15:555, 15:563, 15:570, 15:573, 15:575N, 15:586, 15:602-15:603, 15:607, 15:611-15:613, 15:615, 15:619-15:620, 15:623, 40:136, 40:231, 40:279, 41:08, 42:05:01-42:05:02, <b>A*25:01:20, C*03:542, C*07:335, C*14:62</b>
<b>39<sup>5</sup></b>	115 bp, 150 bp	1070 bp	18	*08:176, 15:545, 18:01:01:01-18:15, 18:17N-18:28, 18:30-18:71, 18:73-18:91, 18:93-18:101, 18:103-18:106Q, 18:108-18:174, 18:176-18:219, 35:289, 35:487, 44:445, 48:28
<b>40<sup>5</sup></b>	80 bp	1070 bp	7, 27, 2708, 44, 60	*07:73, 08:88, 08:102, 15:588, 27:01-27:05:22, 27:05:24-27:21:02, 27:23-27:51, 27:53-27:66N, 27:68-27:74, 27:76-27:139, 27:141-27:188, 27:190-27:197, 27:199-27:214, 27:216-27:235, 27:237-27:238, 27:240-27:255, 38:22, 40:46, 40:93, 44:40, 44:44, 44:130, 44:210:01-44:210:02, 49:26, 49:73, 50:75
<b>41<sup>5</sup></b>	100 bp, 150 bp	<b>800 bp</b>	12, 13, 17, 18, 22, 27, 35, 37, 39, 44, 45, 47, 48, 51, 53, 56, 57, 58, 60, 61, 62, 70, 75, 77, 78	*07:137, 07:235, 07:359, 08:49, 08:60, 08:76, 08:129, 08:181, 08:255, 13:01:01:01-13:01:18, 13:06-13:07N, 13:12:01-13:13:02, 13:17, 13:20-13:23, 13:25-13:26:02, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 13:60-13:61, 13:63N, 13:73, 13:76N-13:80, 13:83, 13:86-13:87, 13:90, 13:92, 13:95, 13:106-13:107, 13:109-13:110, 13:122, 13:129, 13:135, 13:138, 13:141-13:142, 13:144, 13:146, 13:148, 13:161N-13:163, 13:168, 13:170-13:171, 14:10, 14:102, 15:02:01:01-15:02:12, 15:13:01-15:13:03, 15:20-15:21:01:02, 15:25:01:01-15:25:04, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:88-15:89:02, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 15:250, 15:265, 15:271, 15:283, 15:289, 15:291, 15:297, 15:301-15:302N, 15:308, 15:319, 15:325, 15:328, 15:330, 15:341, 15:345, 15:357-15:358, 15:366, 15:374, 15:378, 15:393-15:394, 15:399, 15:402, 15:404, 15:407, 15:418, 15:420, 15:425, 15:437-15:438, 15:454N, 15:458, 15:460, 15:463N, 15:468, 15:491, 15:495, 15:505, 15:537, 15:543-15:544N, 15:557, 15:564, 15:566-15:567, 15:569, 15:574, 15:584N, 15:587, 15:589, 15:592, 15:594, 15:596N, 15:599, 15:615, 15:623, 15:625, 15:627, 18:22, 18:69, 18:105, 18:149-18:150, 18:204, 27:19:01:01-27:19:01:02, 27:30, 27:127, 27:150, 27:188, 35:01:01:01-35:01:54, 35:01:56-35:01:61, 35:01:63-35:04:03, 35:06-35:21, 35:23-35:30:01:02, 35:33-35:36, 35:38-35:42:02, 35:45-35:50, 35:52, 35:54-35:57, 35:59:01-35:59:02, 35:61:01-35:63, 35:65Q, 35:69-35:71, 35:74, 35:76-35:78, 35:80-35:85, 35:88, 35:90-35:96, 35:98, 35:100-35:101:02, 35:103-35:113, 35:115-35:116, 35:120-35:126, 35:128-35:134N, 35:136-35:150:02, 35:152-35:173:02N, 35:175-35:184, 35:186-35:198, 35:200-35:204, 35:206-35:231, 35:233, 35:236-35:250, 35:252-35:259, 35:261-35:264, 35:266-35:272, 35:274-35:275, 35:277-35:291, 35:293-35:330, 35:332-35:366, 35:370-35:388, 35:390N-35:408, 35:410-35:415, 35:417-35:426, 35:428Q-35:432,



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				35:434-35:439:01:02, 35:441-35:458, 35:460Q-35:470, 35:473-35:474, 35:477-35:480, 35:482-35:497, 35:500-35:508N, 35:510-35:518, 35:520, 35:522, 35:524-35:533, 35:536-35:540, 35:542N-35:547, 37:01:01:01-37:01:07, 37:01:09, 37:01:11-37:01:28, 37:03N-37:06:02, 37:08, 37:10-37:43, 37:45-37:50, 37:52-37:80, 37:82N-37:102, 38:20:01-38:20:02, 39:42, 40:04:01:01-40:04:02, 40:28, 40:30, 40:34, 40:64:01:01-40:64:02, 40:68, 40:99, 40:129, 40:137, 40:160:01-40:160:02, 40:343, 40:458, 41:48, 42:13, 44:02:01:01-44:02:33, 44:02:35-44:02:57, 44:02:59-44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46:02, 44:48-44:52N, 44:55-44:64:02, 44:66-44:98, 44:101-44:105, 44:107-44:134, 44:136-44:137, 44:139-44:157, 44:159-44:165, 44:167-44:181, 44:183, 44:185-44:191, 44:194:01-44:196, 44:198N-44:212, 44:214-44:229, 44:231-44:235, 44:237N-44:245, 44:247-44:304, 44:306N-44:338, 44:340-44:342, 44:344-44:346, 44:437-44:439, 44:441-44:458, 44:460-44:490, 44:492-44:505, 44:507-44:517, 44:519-44:524, 44:526-44:546, 46:33, 46:67, 48:02:01-48:02:03, 48:25, 49:61, 50:17, 51:04:01-51:04:02, 51:42, 51:46, 51:56:01-51:56:03, 51:139, 51:186, 51:227, 51:281, 51:310, 52:88, 53:01:01:01-53:13, 53:15-53:43:02, 53:45-53:46, 53:48N-53:66, 53:68, 55:14, 56:09, 56:11-56:12, 56:60, 56:80, 57:01:01:01-57:01:04, 57:01:06-57:10, 57:12, 57:14:01-57:20, 57:22-57:30, 57:32-57:46, 57:48-57:81, 57:84-57:117, 57:119-57:144, 57:146-57:156, 58:01:01:01-58:01:02, 58:01:04-58:01:15, 58:01:17-58:01:42, 58:04-58:05, 58:09-58:15, 58:17N, 58:19, 58:21-58:24, 58:28:01-58:29, 58:31N-58:37, 58:39N-58:42, 58:44-58:45:02, 58:47-58:59:02, 58:62-58:103, 58:105-58:120, 58:123-58:126, 58:128N-58:131, 58:133N-58:135, 83:01, <b>C*03:102, C*03:263:01-03:263:03, C*03:317, C*03:382, C*03:514, C*15:24, C*15:126</b>
<b>42<sup>7,8</sup></b>	140 bp	1070 bp	8, 18, 22, 35, 39, 78	*07:65, 07:134, 07:400, 08:32, 08:133, 08:180, 08:239, 15:202, 15:239, 15:308, 15:376, 18:01:01:01-18:03:01:03, 18:04:01-18:08, 18:10-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:53, 18:55-18:65, 18:68-18:106Q, 18:108-18:124, 18:126-18:135:01:02, 18:137-18:177, 18:179-18:193, 18:196-18:219, 35:01:01:01-35:02:08, 35:02:10-35:18, 35:20:01-35:24:02, 35:27-35:43:01, 35:43:03-35:45, 35:48, 35:50-35:62, 35:64:01-35:72, 35:74-35:153, 35:155-35:197, 35:199-35:206, 35:208:01-35:209, 35:211-35:216N, 35:218-35:253, 35:255-35:270, 35:272-35:273, 35:275-35:310, 35:312-35:316, 35:318-35:360, 35:362-35:449, 35:451-35:470, 35:472-35:547, 37:05, 37:11, 37:14, 37:29, 37:37, 37:67, 39:19:01-39:19:02, 39:186, 40:185, 40:209, 40:308, 40:350, 40:365, 45:22, 46:40:01-46:40:02, 56:06, 56:45, 58:64, 78:01:01:02-78:10
<b>43<sup>5,9</sup></b>	55 bp, 245 bp, 390 bp, 415 bp	1070 bp	5, 15, 48, 60, 62, 63, 70, 71, 72, 75, 76, 77, 82	*15:01:01:01-15:01:04, 15:01:06-15:21:01:02, 15:23-15:40:02, 15:42-15:58, 15:60-15:67, 15:69-15:99, 15:102-15:129, 15:131-15:179:02, 15:181N-15:235, 15:237-15:254, 15:256-15:505, 15:507-15:514, 15:516-15:545, 15:547-15:593, 15:595-15:628, 40:12:01-40:12:02, 40:26, 40:40, 44:02:68, 46:50, 82:01:01:01-82:03, <b>C*03:179, C*04:345, C*06:147, C*12:301, C*14:61, C*16:85</b>
<b>44<sup>9</sup></b>	210 bp	<b>800 bp</b>	27, 37	*07:27, 07:236, 07:273, 08:49, 08:126, 18:54, 18:195, 37:01:01:01-37:102, 38:17, <b>C*07:302, C*07:929, C*07:941</b>



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

Lot No.	Size	Size	Size	Alleles
45	170 bp	800 bp	16, 35, 38, 39, 3901, 3902, 67, 72	*08:55, 15:69, 15:186, 15:449, 15:494, 18:168, 35:35, 35:276, 35:468, 35:471, 38:01:01:01-38:09, 38:11-38:21, 38:23-38:29, 38:31-38:35, 38:38-38:44, 38:46-38:49, 38:51, 38:53-38:62, 38:64, 38:66-38:69, 38:71-38:97, 38:160-38:167, 38:169, 38:171-38:174, 39:01:01:01-39:01:01:25, 39:01:03:01-39:01:34, 39:01:36-39:20, 39:22-39:29, 39:31:01:01-39:31:01:02, 39:35, 39:37:01:01-39:42, 39:44-39:46, 39:48-39:49, 39:51-39:73, 39:75-39:81, 39:83:01-39:101, 39:103-39:106, 39:108-39:111, 39:113-39:127, 39:129-39:135, 39:137-39:155, 39:157N-39:168, 39:170, 39:172-39:173, 39:175N-39:187, 40:184, 40:424, 50:49, 51:101, 52:71, 52:84, 55:123, 58:20, 58:84, 67:01:01-67:07, <b>C*15:51</b>
46 <sup>s</sup>	110 bp	1070 bp	38	*14:93, 27:07:04, 38:01:01:01-38:01:07, 38:01:09-38:01:14, 38:01:16-38:02:02:02, 38:02:04-38:03, 38:05, 38:08-38:24, 38:26-38:34N, 38:36-38:80N, 38:82-38:97, 38:160-38:174, 44:03:59, 49:26, 51:01:68, 52:01:10, <b>A*23:01:18, A*25:01:08</b>
47	395 bp	1070 bp	14, 16, 38, 39, 3901, 61, 64, 65	*07:69, 07:85:01-07:85:02, 07:180, 07:306, 08:65, 08:226, 08:228, 14:01:01:01-14:01:07, 14:01:09-14:20, 14:22-14:41N, 14:43-14:48, 14:50-14:56, 14:58-14:72N, 14:74-14:109, 38:01:01:01-38:02:11, 38:04-38:05, 38:08-38:25, 38:27-38:53, 38:55Q-38:73, 38:75-38:97, 38:160-38:165N, 38:167-38:174, 39:01:01:01-39:01:01:25, 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, 39:50-39:57, 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, 39:132-39:142N, 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, 40:75 <sup>?</sup> , 40:322 <sup>?</sup> , 49:26
48	160 bp, 425 bp	1070 bp	7, 703, 8, 14, 15, 16, 21, 27, 39, 3901, 3902, 40, 41, 42, 45, 48, 50, 51, 54, 60, 61, 64, 65, 67, 70, 73, 81	*07:02:01:01-07:02:05, 07:02:07-07:02:66, 07:02:68-07:02:77, 07:02:79-07:02:81, 07:02:83-07:26, 07:28-07:35, 07:37:01-07:37:02, 07:39-07:64, 07:66-07:80, 07:82-07:148, 07:150-07:178, 07:181N-07:191, 07:193-07:194, 07:196-07:218, 07:220-07:235, 07:237-07:256, 07:258-07:270, 07:272N, 07:274-07:447, 07:449-07:452, 07:454-07:457, 08:01:01:01-08:01:03, 08:01:05-08:01:66, 08:04:01-08:05, 08:07-08:35, 08:37-08:51, 08:53:01-08:77, 08:79-08:116, 08:118-08:125, 08:127-08:130, 08:132-08:135, 08:137-08:138, 08:140-08:228, 08:230-08:254, 08:256-08:266, 08:268-08:270Q, 08:272-08:288, 08:290-08:292, 14:01:01:01-14:01:04, 14:01:06-14:01:12, 14:02:01:01-14:02:04, 14:02:06-14:02:07, 14:02:09-14:29, 14:31-14:76N, 14:78N-14:92, 14:94-14:109, 15:68, 15:180, 27:14, 27:81, 27:130, 35:516, 35:534, 39:01:01:01-39:01:01:25, 39:01:03:01-39:06:04, 39:06:06-39:20, 39:22-39:24:01, 39:24:03-39:103, 39:105-39:184, 39:186-39:187, 40:01:01-40:01:04, 40:01:06-40:01:76, 40:06:01:01-40:06:04:03, 40:06:06-40:07, 40:09 <sup>?</sup> , 40:14:01 <sup>?</sup> -40:14:02 <sup>?</sup> , 40:14:03, 40:15 <sup>?</sup> , 40:16:01:01-40:16:01:02, 40:18 <sup>?</sup> , 40:21 <sup>?</sup> -40:22N <sup>?</sup> , 40:23, 40:24 <sup>?</sup> -40:25 <sup>?</sup> , 40:27:02 <sup>?</sup> , 40:28 <sup>?</sup> -40:29 <sup>?</sup> , 40:30-40:33, 40:34 <sup>?</sup> -40:35:02 <sup>?</sup> , 40:36 <sup>?</sup> , 40:38 <sup>?</sup> , 40:42-40:44, 40:45 <sup>?</sup> -40:46 <sup>?</sup> , 40:48, 40:49 <sup>?</sup> , 40:51-40:55, 40:56 <sup>?</sup> -40:58 <sup>?</sup> , 40:59-40:60, 40:61 <sup>?</sup> -40:63 <sup>?</sup> , 40:65 <sup>?</sup> , 40:66, 40:67 <sup>?</sup> -40:69 <sup>?</sup> , 40:70:01-40:70:02, 40:71 <sup>?</sup> , 40:72:01-40:75, 40:77, 40:78 <sup>?</sup> , 40:79-40:80,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

40:81<sup>?</sup>-40:82<sup>?</sup>, 40:83, 40:84<sup>?</sup>-40:85<sup>?</sup>, 40:86, 40:87:01<sup>?</sup>-40:88<sup>?</sup>,  
40:91<sup>?</sup>-40:92<sup>?</sup>, 40:93, 40:95<sup>?</sup>, 40:96, 40:98<sup>?</sup>, 40:100<sup>?</sup>-40:102<sup>?</sup>,  
40:103, 40:104<sup>?</sup>-40:108<sup>?</sup>, 40:109-40:110, 40:112<sup>?</sup>, 40:113-  
40:114:01:02, 40:114:02<sup>?</sup>-40:116<sup>?</sup>, 40:118N<sup>?</sup>, 40:121<sup>?</sup>, 40:123<sup>?</sup>,  
40:124:01, 40:124:02<sup>?</sup>-40:125:01<sup>?</sup>, 40:125:02-40:128,  
40:130:01<sup>?</sup>, 40:130:02-40:131, 40:132<sup>?</sup>-40:134<sup>?</sup>, 40:136<sup>?</sup>-  
40:137<sup>?</sup>, 40:138-40:140, 40:141<sup>?</sup>, 40:145<sup>?</sup>, 40:146-40:148,  
40:149<sup>?</sup>, 40:150, 40:151<sup>?</sup>, 40:152-40:153, 40:154<sup>?</sup>, 40:155:01N-  
40:155:02N, 40:156<sup>?</sup>, 40:158<sup>?</sup>, 40:159-40:160:01, 40:160:02<sup>?</sup>,  
40:161-40:162, 40:163<sup>?</sup>-40:164<sup>?</sup>, 40:165, 40:166<sup>?</sup>, 40:167-  
40:168, 40:169<sup>?</sup>, 40:170-40:172, 40:173<sup>?</sup>-40:176<sup>?</sup>, 40:177,  
40:178<sup>?</sup>-40:180<sup>?</sup>, 40:182<sup>?</sup>, 40:183, 40:184<sup>?</sup>-40:185<sup>?</sup>, 40:186:01,  
40:186:02<sup>?</sup>-40:187<sup>?</sup>, 40:189<sup>?</sup>, 40:190-40:191, 40:192<sup>?</sup>-40:200<sup>?</sup>,  
40:203<sup>?</sup>-40:213<sup>?</sup>, 40:215<sup>?</sup>-40:225:01<sup>?</sup>, 40:226<sup>?</sup>-40:228<sup>?</sup>, 40:230,  
40:231<sup>?</sup>-40:236<sup>?</sup>, 40:237, 40:238<sup>?</sup>-40:243<sup>?</sup>, 40:244-40:245:02,  
40:246<sup>?</sup>-40:248<sup>?</sup>, 40:249-40:253, 40:256N, 40:257<sup>?</sup>, 40:258-  
40:265N, 40:268-40:270, 40:272-40:273, 40:274<sup>?</sup>, 40:275,  
40:276<sup>?</sup>, 40:277-40:278, 40:279<sup>?</sup>-40:280<sup>?</sup>, 40:282<sup>?</sup>-40:283<sup>?</sup>,  
40:285-40:286N, 40:287<sup>?</sup>-40:289<sup>?</sup>, 40:291N<sup>?</sup>, 40:293<sup>?</sup>, 40:294-  
40:295, 40:297<sup>?</sup>, 40:298:01-40:298:02, 40:299<sup>?</sup>-40:300<sup>?</sup>,  
40:301, 40:306-40:307, 40:308<sup>?</sup>, 40:310-40:311, 40:312<sup>?</sup>,  
40:313, 40:315<sup>?</sup>, 40:316-40:318, 40:319<sup>?</sup>, 40:321, 40:322<sup>?</sup>,  
40:323:01-40:323:02, 40:324<sup>?</sup>-40:329<sup>?</sup>, 40:330, 40:332,  
40:333<sup>?</sup>, 40:336<sup>?</sup>-40:339<sup>?</sup>, 40:340-40:342, 40:343<sup>?</sup>, 40:346,  
40:348-40:350, 40:351<sup>?</sup>-40:352<sup>?</sup>, 40:354-40:355, 40:357<sup>?</sup>-  
40:360<sup>?</sup>, 40:361N-40:364, 40:366-40:368, 40:370, 40:372N-  
40:374, 40:376-40:377, 40:379-40:383, 40:385-40:389, 40:391-  
40:393, 40:395, 40:396<sup>?</sup>, 40:397-40:398, 40:400<sup>?</sup>, 40:401-  
40:404, 40:406-40:408, 40:411, 40:416-40:419, 40:421Q-  
40:428N, 40:430-40:431, 40:433-40:434, 40:436, 40:439,  
40:443, 40:445-40:454, 40:456, 40:459-40:461, 40:463-40:464,  
40:466, 40:468-40:469, 40:471, 40:473-40:480, 40:482-  
40:488N, 40:490-40:492, 40:494-40:499, 40:501-40:503,  
40:506N-40:509Q, 40:510N<sup>?</sup>, 41:01:01:01-41:45N, 41:47-  
41:59, 41:62-41:75, 42:01:01:01-42:02:02, 42:04-42:21, 42:23-  
42:32, 45:01:01:01-45:01:09, 45:01:11-45:25, 45:27-45:28N,  
46:89, 48:01:01:01-48:17, 48:19-48:53, 49:01:14, 50:01:01:01-  
50:01:17, 50:01:19-50:02:01:02, 50:04:01-50:20, 50:31-50:79,  
51:01:09, 51:01:21, 51:01:25, 51:10, 51:24:02-51:24:04,  
51:197, 51:217, 51:279, 51:338, 52:01:50, 52:54, 54:11,  
56:20:02, 56:68, 67:01:01-67:07, 73:01:01:01-73:03, 81:02:01-  
81:02:02, **C\*01:214, C\*03:464, C\*05:152, C\*07:463, C\*07:758,**  
**C\*16:112**

49 <sup>11</sup>	180 bp	1070 bp	15, 40, 44, 48, 60, 62, 71	*15:116, 15:124, 15:352, 15:412, 15:507, 27:125, 35:230, 35:331, 38:63, 40:01:01-40:01:06, 40:01:08-40:01:17, 40:01:19-40:01:73, 40:01:75-40:01:76, 40:07, 40:10:01:01- 40:10:02, 40:12:01-40:12:02, 40:21-40:23, 40:25, 40:30, 40:33- 40:34, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:51-40:52, 40:54-40:55, 40:59-40:63, 40:65-40:67, 40:69, 40:73-40:74, 40:76, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100- 40:102, 40:106, 40:108, 40:112-40:114:02, 40:116-40:118N, 40:123-40:126, 40:128, 40:130:01-40:130:02, 40:132, 40:134- 40:135, 40:137-40:141, 40:146-40:147, 40:149-40:156,
------------------	--------	---------	----------------------------------	--



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				40:160:01-40:160:02, 40:163, 40:166, 40:168, 40:170-40:172, 40:175, 40:178-40:179, 40:182-40:183, 40:185-40:188, 40:191, 40:193-40:196, 40:198-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:234-40:236, 40:238-40:242, 40:245:01-40:245:02, 40:247, 40:249-40:253, 40:257-40:265N, 40:272-40:273, 40:277-40:282, 40:285-40:286N, 40:288, 40:299-40:301, 40:308, 40:310, 40:312, 40:315, 40:319, 40:321, 40:323:01-40:329, 40:332-40:333, 40:336, 40:338N-40:339, 40:344, 40:346, 40:352-40:353:02, 40:355, 40:357-40:358, 40:360, 40:365, 40:367-40:368, 40:370, 40:372N, 40:377, 40:379, 40:381:01-40:383, 40:385-40:386, 40:391-40:398, 40:400-40:402, 40:404, 40:406-40:407, 40:416-40:419, 40:421Q-40:422, 40:424, 40:426N, 40:428N, 40:430-40:431, 40:433, 40:436, 40:439, 40:443, 40:446-40:448, 40:450, 40:452, 40:456, 40:461-40:463, 40:466, 40:474-40:475:02, 40:479-40:480, 40:483N, 40:485-40:486, 40:490-40:491, 40:495, 40:497-40:499, 40:501, 40:503, 40:506N-40:510N, 44:31, 44:169, 44:182, 46:06, 46:43, 48:03:01:01-48:03:02, 48:17, 48:23, 48:40, 57:59, <b>C*03:129, C*03:234, C*04:366, C*04:368, C*05:136, C*17:16:01-17:16:02</b>
50 <sup>9</sup>	130 bp, 290 bp, 465 bp	1070 bp	13, 17, 18, 21, 35, 4005, 41, 47, 50, 57, 60, 61, 62	*13:01:18, 13:02:06, 13:26:01, 13:72, 13:127, 15:16:03, 15:20, 15:34:02, 15:85, 15:194, 15:393, 15:407, 15:587, 15:599, 15:623, 18:22, 18:48, 18:52, 18:105, 27:107, 35:46, 35:50, 35:84, 35:207, 35:231, 37:101, 40:02:01:01-40:06:29, 40:08:01:01-40:09, 40:10:02 <sup>?</sup> , 40:11:01:01-40:11:02, 40:13, 40:14:01 <sup>?</sup> -40:14:02 <sup>?</sup> , 40:15 <sup>?</sup> , 40:18-40:20:01:02, 40:22N <sup>?</sup> , 40:24, 40:25 <sup>?</sup> , 40:26-40:29, 40:34 <sup>?</sup> , 40:35:01-40:35:03, 40:36 <sup>?</sup> , 40:37, 40:38 <sup>?</sup> , 40:39, 40:44, 40:45 <sup>?</sup> , 40:47 <sup>?</sup> , 40:49 <sup>?</sup> , 40:50:01:01-40:50:01:02, 40:53 <sup>?</sup> , 40:56, 40:57 <sup>?</sup> -40:58 <sup>?</sup> , 40:61 <sup>?</sup> -40:63 <sup>?</sup> , 40:64:01:01-40:64:02, 40:65 <sup>?</sup> , 40:67 <sup>?</sup> , 40:68, 40:69 <sup>?</sup> , 40:70:01-40:71, 40:74-40:75, 40:78, 40:81 <sup>?</sup> , 40:82, 40:84 <sup>?</sup> , 40:85-40:86, 40:87:01 <sup>?</sup> -40:88 <sup>?</sup> , 40:89-40:91, 40:92 <sup>?</sup> , 40:94-40:99, 40:100 <sup>?</sup> -40:102 <sup>?</sup> , 40:103-40:105, 40:106 <sup>?</sup> , 40:107, 40:108 <sup>?</sup> , 40:109, 40:111, 40:112 <sup>?</sup> , 40:114:02 <sup>?</sup> , 40:115, 40:116 <sup>?</sup> , 40:118N <sup>?</sup> , 40:119-40:120, 40:121 <sup>?</sup> , 40:122, 40:123 <sup>?</sup> , 40:124:02 <sup>?</sup> -40:125:01 <sup>?</sup> , 40:127, 40:129, 40:130:01 <sup>?</sup> , 40:131, 40:132 <sup>?</sup> , 40:133Q, 40:134 <sup>?</sup> -40:136 <sup>?</sup> , 40:141 <sup>?</sup> , 40:142N-40:145, 40:148-40:149, 40:151 <sup>?</sup> , 40:154 <sup>?</sup> , 40:156 <sup>?</sup> , 40:157, 40:158 <sup>?</sup> , 40:159, 40:160:02 <sup>?</sup> , 40:161-40:162, 40:163 <sup>?</sup> -40:164 <sup>?</sup> , 40:165, 40:166 <sup>?</sup> , 40:167, 40:169, 40:173-40:174, 40:175 <sup>?</sup> , 40:176, 40:178 <sup>?</sup> -40:179 <sup>?</sup> , 40:180-40:181, 40:182 <sup>?</sup> , 40:184, 40:186:02 <sup>?</sup> -40:188 <sup>?</sup> , 40:189-40:190, 40:192 <sup>?</sup> -40:199 <sup>?</sup> , 40:200-40:203, 40:204 <sup>?</sup> , 40:205-40:206, 40:207 <sup>?</sup> -40:208 <sup>?</sup> , 40:210 <sup>?</sup> , 40:211, 40:212 <sup>?</sup> -40:213 <sup>?</sup> , 40:214, 40:215 <sup>?</sup> -40:219 <sup>?</sup> , 40:220, 40:221 <sup>?</sup> -40:223 <sup>?</sup> , 40:224-40:226, 40:227 <sup>?</sup> -40:228 <sup>?</sup> , 40:229-40:230, 40:231 <sup>?</sup> , 40:232, 40:233 <sup>?</sup> -40:236 <sup>?</sup> , 40:238 <sup>?</sup> -40:242 <sup>?</sup> , 40:243-40:244, 40:246, 40:247 <sup>?</sup> , 40:248, 40:254-40:256N, 40:257 <sup>?</sup> , 40:266-40:271, 40:274-40:276, 40:279 <sup>?</sup> -40:282 <sup>?</sup> , 40:283-40:284, 40:287, 40:288 <sup>?</sup> , 40:289-40:293, 40:295-40:297, 40:298:01 <sup>?</sup> -40:300 <sup>?</sup> , 40:302-40:307, 40:308 <sup>?</sup> , 40:309, 40:311, 40:312 <sup>?</sup> , 40:313-40:314, 40:315 <sup>?</sup> , 40:317, 40:318 <sup>?</sup> -40:319 <sup>?</sup> , 40:320, 40:322, 40:324 <sup>?</sup> -40:329 <sup>?</sup> , 40:330-40:331, 40:333 <sup>?</sup> , 40:334:01-40:335, 40:336 <sup>?</sup> , 40:337N, 40:338N <sup>?</sup> -40:339 <sup>?</sup> ,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				40:340-40:341, 40:342 <sup>?</sup> , 40:343, 40:344 <sup>?</sup> , 40:345N, 40:347-40:351, 40:354, 40:356, 40:357 <sup>?</sup> -40:358 <sup>?</sup> , 40:359, 40:360 <sup>?</sup> , 40:361N-40:364, 40:366, 40:369, 40:371, 40:374-40:376, 40:384, 40:387-40:390, 40:396 <sup>?</sup> , 40:399N, 40:400 <sup>?</sup> , 40:405, 40:408-40:415, 40:420, 40:423, 40:425, 40:427, 40:429, 40:432, 40:434-40:435, 40:437-40:438N, 40:440-40:442, 40:444-40:445, 40:449, 40:451, 40:453-40:455, 40:458-40:460, 40:464-40:465, 40:467-40:468, 40:470-40:473, 40:476, 40:478, 40:481N-40:482, 40:484, 40:487N-40:489, 40:492-40:494, 40:500, 40:504-40:505, 40:510N <sup>?</sup> , 40:511N, 44:02:59, 44:103, 44:131, 44:139 <sup>?</sup> , 44:212, 46:01:07, 46:33, 47:01:01:02-47:01:02, 47:01:04-47:01:05, 47:02-47:03, 47:05-47:10, 57:05, 57:67:01, 58:36, <b>C*01:73, C*03:504</b>
51 <sup>5</sup>	105 bp	1070 bp	7, 8, 22, 41, 42	*07:04:01-07:04:02, 07:25, 07:146, 07:349, 08:01:01:01-08:01:24, 08:01:26-08:01:61, 08:01:63-08:05, 08:07-08:12:03, 08:14-08:19N, 08:21-08:24, 08:26:01-08:30N, 08:32-08:39, 08:41-08:54:02, 08:56:01-08:69, 08:71-08:78, 08:80-08:102, 08:104-08:112, 08:114-08:133, 08:135-08:142, 08:144-08:155, 08:157-08:168, 08:170, 08:172-08:174, 08:176-08:204, 08:206-08:254, 08:256-08:273, 08:275-08:280, 08:282-08:292, 35:87, 40:136, 40:231, 40:279, 41:01:01:01-41:08, 41:10-41:28, 41:30-41:31, 41:33-41:61, 41:63-41:75, 42:01:01:01-42:02:02, 42:04-42:07, 42:09-42:18, 42:20-42:32, 44:166, 44:342, 55:20
52	325 bp	800 bp	7, 15, 22, 27, 2708, 35, 42, 45, 46, 54, 55, 56, 67, 73, 78, 81, 82	*07:02:01:01-07:02:05, 07:02:07-07:02:91, 07:04:01-07:07:03, 07:09:01-07:15, 07:17-07:26, 07:28-07:31:02, 07:33:01-07:36, 07:39-07:46, 07:47 <sup>w</sup> , 07:48-07:49N, 07:51-07:68:03, 07:70-07:84, 07:86-07:179, 07:181N-07:206, 07:208-07:218, 07:220-07:227, 07:229:01-07:231N, 07:233-07:305, 07:307-07:399, 07:401-07:452, 07:454-07:457, 08:123, 08:132, 14:21, 14:57, 15:76, 15:101, 15:255, 15:509, 15:594, 27:01-27:11, 27:13:01-27:15, 27:17, 27:19:01:01-27:21:02, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:118, 27:120-27:128, 27:130-27:136, 27:138-27:152, 27:154-27:203, 27:205-27:214, 27:216-27:241, 27:243N-27:255, 35:76, 35:186, 35:229, 35:368, 37:60, 38:26, 40:166, 42:01:01:01-42:02:02, 42:04-42:06, 42:08-42:10, 42:12-42:23, 42:25, 42:27-42:32, 44:90, 44:97, 45:06, 46:01:01:01-46:01:36, 46:02 <sup>w</sup> , 46:03-46:40:02, 46:42-46:48, 46:50-46:95N, 54:01:01:01-54:29, 54:31-54:44, 55:01:01:01-55:05, 55:07-55:17, 55:19-55:77, 55:79-55:123, 56:01:01:01-56:16, 56:18-56:22, 56:24-56:32, 56:34-56:41, 56:43, 56:45-56:53, 56:55:01:02-56:66, 56:68-56:86, 67:01:01-67:07, 73:01:01:01-73:03, 81:01:01:01-81:10, 82:01:01:01-82:04, 83:01
53 <sup>5,7</sup>	80 bp, 115 bp, 160 bp, 195 bp, 225 bp, 260 bp	1070 bp	12, 35, 37, 44, 45, 47, 48, 57	*07:359, 08:49, 08:60, 08:76, 08:87, 08:129, 08:181, 08:213:01, 08:255, 15:578, 15:592, 27:127, 35:38, 35:45, 35:71, 35:115, 35:169, 35:260, 35:309, 35:452, 35:513N, 35:545, 37:01:01:01-37:01:07, 37:01:09, 37:01:11-37:01:28, 37:03N-37:06:02, 37:08, 37:10-37:38, 37:41-37:43, 37:45-37:50, 37:52-37:65, 37:67-37:82N, 37:84-37:93, 37:95-37:96, 37:98-37:102, 40:132, 40:178, 40:231, 40:279, 40:458, 41:48, 42:13, 44:02:01:01-44:14, 44:16-44:17, 44:19N-44:36, 44:38-44:63, 44:65-44:134, 44:136-44:149N, 44:151-44:157, 44:159-44:165, 44:167-44:183, 44:185-44:212, 44:214-44:229, 44:231-44:235, 44:237N-44:245, 44:247-44:267N, 44:269-44:274,



0197

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



101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				44:277-44:289, 44:291-44:338, 44:340-44:346, 44:437-44:458, 44:460-44:524, 44:526-44:546, 48:11, 51:42, 51:274, 53:22, 53:62, 57:07, 57:09, 57:24, 57:93, 57:119, 58:94N, 83:01, <b>C*15:25</b>
54	215 bp	800 bp	5, 8, 12, 17, 21, 22, 41, 42, 44, 45, 49, 51, 5102, 5103, 52, 53, 56, 62	*08:09, 08:84, 08:254, 13:46, 13:154, 15:83:01:01-15:83:01:02, 41:01:01:01-41:01:07, 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, 41:56Q-41:57, 41:59-41:61, 41:64, 41:66-41:67, 41:70, 41:73, 41:75, 42:04, 44:06, 44:15:01:01-44:15:01:02, 44:18:01:01-44:18:01:02, 44:20, 44:100, 45:01:01:01-45:25, 45:27-45:28N, 49:03, 51:01:01:01-51:01:01:103, 51:01:03-51:01:08, 51:01:10-51:01:39, 51:01:41-51:02:01:03, 51:02:03-51:04:02, 51:06:01:01-51:06:03, 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, 51:55-51:77, 51:79-51:88, 51:90-51:92:02, 51:94-51:102, 51:104:01-51:115, 51:117-51:118N, 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, 51:227-51:237:01, 51:238-51:336, 51:338-51:340, 51:342-51:358, 52:01:02:01-52:01:02:09, 52:01:04, 52:01:09, 52:01:40, 52:01:43, 52:01:47, 52:01:49, 52:02:01, 52:03, 52:06:01-52:06:02, 52:09:01, 52:10:03, 52:11:02, 52:19, 52:21:01, 52:31:02, 52:85, 52:97, 52:102, 52:104, 53:01:13, 53:06, 55:20, 55:56, 56:13, 57:01:20, 58:08:01, <b>A*23:01:14</b>
55 <sup>9</sup>	130 bp, 280 bp	800 bp	7, 17, 18, 22, 35, 37, 40, 46, 51, 53, 60, 62, 78	*07:12, 07:14:01-07:14:02, 07:18:01-07:18:02, 07:137, 07:162-07:163, 07:199, 07:225, 07:227, 07:248, 07:350, 14:10, 14:102, 15:57 <sup>w</sup> , 15:289, 15:297, 15:318, 15:579, 18:22, 18:69, 18:105, 18:149-18:150, 18:204, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 35:233, 35:287, 37:04:01-37:04:02, 40:28, 40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02, 44:150, 44:190, 44:203:01-44:203:02, 44:275, 44:290, 46:01:01:01-46:39, 46:41N-46:46, 46:48-46:71, 46:73-46:76, 46:78-46:85, 46:87-46:95N, 48:17, 51:04:01-51:04:02, 51:46, 51:56:01-51:56:03, 51:139, 51:227, 51:281, 51:310, 52:88, 53:02, 53:06, 53:28, 57:14:01-57:14:02, 58:09, 58:76, <b>C*01:73, C*03:260, C*03:384, C*15:39, C*15:130, C*15:195</b>
56 <sup>5</sup>	90 bp, 410 bp	1070 bp	7, 15, 22, 27, 2708, 35, 47, 54, 55, 56, 78, 81, 82	*07:65, 07:209, 07:271, 27:01 <sup>w</sup> , 27:02:01:01-27:11, 27:13:01-27:15, 27:17, 27:19:01:01-27:21:02, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:118, 27:120-27:128, 27:130-27:136, 27:138-27:152, 27:154-27:194, 27:196-27:203, 27:205-27:214, 27:216-27:241, 27:243N-27:255, 35:76, 35:186, 35:229, 35:368, 37:60, 44:90, 44:97, 47:01:01:02-47:03, 47:06-47:12, 54:01:01:01-54:29, 54:31-54:44, 55:01:01:01-55:05, 55:07-55:17, 55:19-55:77, 55:79-55:123, 56:01:01:01-56:16, 56:18-56:22, 56:24-56:32, 56:34-56:41, 56:43, 56:45-56:53, 56:55:01:02-56:66, 56:69-56:86, 81:01:01:01-81:01:05, 81:05, 81:09-81:10, 82:01:01:01-82:04, 83:01, <b>C*04:439, C*14:79</b>
57 <sup>5</sup>	90 bp, 175 bp	1070 bp	15, 27, 35, 48, 60, 62, 75, 77, 81	*07:174, 07:202, 07:222, 07:279, 07:409 <sup>w</sup> , 08:213:01-08:213:02, 13:36, 15:02:01:01-15:02:12, 15:08:01:01-15:08:02, 15:11:01-15:11:07, 15:13:01-15:13:03, 15:15:01:01-15:15:01:02, 15:21:01:01-15:21:01:02,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				15:31:01:01-15:31:01:03, 15:44, 15:55, 15:76 <sup>w</sup> , 15:88-15:89:02, 15:112, 15:121, 15:139, 15:144, 15:148, 15:170, 15:189:01-15:189:02, 15:191, 15:194, 15:209N, 15:213-15:215, 15:223, 15:265, 15:283-15:284, 15:291, 15:297, 15:301-15:303, 15:305, 15:319, 15:325, 15:328, 15:330, 15:341, 15:345, 15:350, 15:357-15:358, 15:367, 15:374, 15:378, 15:384, 15:394, 15:399, 15:404, 15:418, 15:420, 15:425, 15:437-15:438, 15:454N, 15:460, 15:479, 15:486, 15:491, 15:495, 15:505, 15:508, 15:513, 15:537, 15:557, 15:567, 15:569, 15:574, 15:592, 15:596N, 15:615, 15:622-15:623, 15:627, 27:24, 35:46, 35:311, 40:31, 40:45, 40:80, 48:01:01:01-48:01:10, 48:04:01:01-48:04:02, 48:06-48:07, 48:09, 48:11, 48:15-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:39, 48:41-48:53, 51:104:02, 56:39 <sup>w</sup> , 81:01:01:01-81:10
<b>58<sup>5</sup></b>	55 bp, 100 bp, 145 bp, 395 bp, 430 bp	1070 bp	15, 27, 44, 48, 49, 52, 59, 60, 61, 62, 63	*15:16:01:01-15:17:07, 15:24:01-15:24:02, 15:67, 15:87, 15:143, 15:152, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:254, 15:268, 15:273, 15:356, 15:361-15:362, 15:396, 15:403, 15:408, 15:411, 15:423-15:424, 15:442, 15:446, 15:500, 15:516, 15:523, 15:532, 15:546Q, 15:550, 15:555, 15:575N, 15:586, 15:602-15:603, 15:613, 15:619, 27:02:01:01-27:02:04, 27:02:06, 27:30, 27:53, 27:57, 27:62, 27:65N, 27:75, 27:77, 27:83, 27:95, 27:102, 27:119, 27:126, 27:134, 27:163, 27:171-27:172, 27:176N, 27:181, 27:188, 27:197, 27:203, 27:213, 27:232, 27:236, 27:245-27:246N, 27:251, 37:34, 38:25, 40:13, 40:19, 40:61, 40:109, 40:117, 40:292, 40:340, 40:394, 41:46, 41:60, 44:18:01:01-44:18:01:02, 44:25, 44:50:01, 44:50:03, 44:95, 48:18, 49:01:01:01-49:01:22, 49:03-49:14, 49:16-49:25, 49:27-49:69, 49:71-49:76, 51:112, 51:231, 51:310, 52:01:01:01-52:01:28, 52:01:30-52:19, 52:21:01-52:72, 52:74-52:106, 53:17:01-53:17:02, 53:28, 53:30, 53:39, 54:12, 55:103, 56:21, 56:42, 56:54, 56:65, 57:45, 57:51, 57:69, 57:128, 58:100, 58:111, 59:01:01:01-59:07, 59:09-59:12, <b>A*24:309, A*32:39</b>
<b>59<sup>5,8</sup></b>	120 bp, 210 bp	<b>800 bp</b>	5, 13, 15, 17, 22, 35, 45, 49, 50, 51, 5102, 5103, 52, 55, 56, 62, 63, 78	*07:78, 07:84, 07:429, 13:16, 13:31 <sup>w</sup> , 13:48, 13:62, 13:128, 13:131 <sup>w</sup> , 13:145 <sup>w</sup> , 14:37, 15:04:01:01 <sup>w</sup> -15:04:04 <sup>w</sup> , 15:16:01:01-15:16:05, 15:42, 15:67, 15:95, 15:137 <sup>w</sup> , 15:254, 15:293, 15:303 <sup>w</sup> , 15:310, 15:362, 15:408, 15:517, 15:531 <sup>w</sup> , 15:550, 15:602, 15:609 <sup>w</sup> , 15:613, 27:153, 35:265 <sup>w</sup> , 40:95, 40:148, 40:161, 44:459, 46:32:01 <sup>w</sup> -46:32:02 <sup>w</sup> , 49:01:01:01-49:01:18, 49:01:03-49:10, 49:12-49:14, 49:16-49:44, 49:46, 49:48-49:60N, 49:62-49:76, 50:01:01:01-50:02:01:02, 50:04:01-50:11, 50:13-50:16, 50:18-50:20, 50:31-50:46, 50:47 <sup>w</sup> , 50:48, 50:50, 50:52-50:65, 50:67-50:69, 50:71-50:79, 51:01:01:01-51:03, 51:05:01:01-51:05:01:02, 51:07:01-51:08:04, 51:08:06-51:09:03, 51:11N-51:14, 51:16-51:24:05, 51:26-51:41N, 51:43-51:44N, 51:48-51:55, 51:57-51:58, 51:60-51:61:02, 51:63:01-51:63:02, 51:65-51:80, 51:82-51:134, 51:136-51:138, 51:140-51:147, 51:149N-51:156, 51:158:01-51:193:02, 51:195-51:212, 51:214-51:219, 51:221-51:226, 51:228-51:280, 51:282-51:292, 51:294-51:309, 51:311-51:318N, 51:320-51:337, 51:339-51:340, 51:342-51:351, 51:354-51:358, 52:01:01:01-52:87, 52:89N-52:96N, 52:97 <sup>w</sup> , 52:98-52:106, 54:20, 54:33 <sup>w</sup> , 55:01:01:01-55:01:06, 55:01:08-55:01:28, 55:02:11, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21 <sup>w</sup> , 55:24-55:25,



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				55:28:01-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:55N, 55:58-55:60, 55:64, 55:66, 55:68, 55:73-55:76, 55:78-55:79, 55:84-55:85, 55:87, 55:90-55:95, 55:97N-55:106, 55:108-55:109, 55:111, 55:113-55:116, 55:118N-55:119, 55:121-55:122, 56:05:01-56:06, 56:21, 56:25, 56:37, 58:08:01-58:08:02, 59:12, 78:01:01:02-78:10, <b>C*03:464, C*05:152, C*12:183<sup>w</sup>, C*14:92</b>
60	390 bp, 430 bp	1070 bp	5, 17, 27, 35, 44, 51, 5102, 5103, 52, 53, 57, 58, 61, 78	*15:506, 18:33, 18:67, 18:136, 18:194:01:01-18:194:01:02, 27:02:01:01-27:02:06, 27:12:01:01-27:12:01:03, 27:16, 27:30, 27:53, 27:57, 27:62, 27:65N, 27:75, 27:77, 27:83, 27:92, 27:95, 27:102, 27:119, 27:126, 27:134, 27:153, 27:157, 27:163, 27:171-27:172, 27:176N, 27:181, 27:188, 27:197, 27:203, 27:213, 27:232, 27:236, 27:242, 27:245-27:246N, 27:251, 35:26, 35:82, 35:85, 35:135, 35:294, 35:471, 37:34, 37:57, 40:13, 40:19, 40:75 <sup>?</sup> , 40:109 <sup>?</sup> , 40:292 <sup>?</sup> , 40:322 <sup>?</sup> , 40:340 <sup>?</sup> , 44:06, 44:25, 44:50:01, 44:50:03, 44:95, 44:263, 49:62, 51:01:01:01-51:01:39, 51:01:41-51:24:05, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:340, 51:342-51:358, 52:01:01:01-52:01:28, 52:01:30-52:19, 52:21:01-52:89N, 52:91-52:106, 53:01:01:01-53:01:17, 53:01:19-53:02, 53:04-53:08:02, 53:10, 53:14-53:30, 53:32-53:35, 53:37, 53:39-53:54, 53:56-53:66, 53:68, 57:01:01:01-57:04:02, 57:05-57:11, 57:13-57:156, 58:01:01:01-58:02:02, 58:04-58:16:02, 58:18-58:29, 58:31N-58:63, 58:65-58:107, 58:109-58:135, 78:03
61	145 bp, 210 bp	1070 bp	7, 12, 21, 27, 2708, 35, 4005, 41, 45, 46, 47, 50, 60, 61, 73	*07:133, 07:177, 08:102, 08:122, 08:155, 13:09, 13:39, 13:67, 14:48, 15:46, 15:53, 15:106, 15:143, 15:183, 15:212, 15:336, 15:345, 15:511, 15:525, 15:559, 18:48, 18:80, 18:102, 18:107, 27:08, 27:12:01:01-27:12:01:03, 27:18, 27:26, 27:33, 27:40, 27:42, 27:44, 27:89, 27:153, 27:165 <sup>w</sup> , 27:204:01:01-27:204:01:02, 27:242, 35:19, 35:47, 35:63, 35:84, 35:90, 35:150:01-35:150:02, 35:154, 35:184, 35:201, 35:217, 35:274, 35:317, 35:441, 35:450, 39:69, 40:01:01-40:11:02, 40:14:01-40:16:01:02, 40:18, 40:20:01:01-40:20:01:02, 40:22N-40:40, 40:42-40:46, 40:48-40:75, 40:77-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:136, 40:138-40:156, 40:158-40:187, 40:189-40:200, 40:202-40:291N, 40:293-40:339, 40:341-40:364, 40:366-40:393, 40:395-40:399N, 40:401-40:511N, 41:01:01:01-41:04, 41:06-41:25, 41:27-41:45N, 41:47-41:59, 41:61-41:75, 44:09, 44:46:01-44:46:02, 44:75, 44:90, 44:129, 44:131, 44:254, 44:277, 44:438N, 45:01:01:01-45:01:08, 45:01:10-45:15, 45:17-45:25, 45:27-45:28N, 46:10, 47:02, 47:03 <sup>w</sup> , 48:41, 50:01:01:01-50:02:01:02, 50:04:01-50:20, 50:31-50:79, 56:36, 56:67, 73:01:01:01-73:03, <b>C*03:504, C*07:828</b>
62 <sup>8</sup>	300 bp	1070 bp	7, 12, 13, 15, 17, 18, 21, 27, 2708, 35, 37, 38, 39, 3902, 40, 4005, 41, 44, 45, 47, 48, 49, 50, 52, 60, 61,	*07:54, 07:123, 07:400, 07:453, 08:17, 08:38:01-08:38:02, 08:54:01-08:54:02, 08:101, 08:228, 08:285, 13:01:01:01-13:01:14, 13:01:16-13:04, 13:06, 13:08-13:23, 13:25-13:35, 13:37-13:171, 15:01:01:01-15:01:04, 15:01:06-15:01:18, 15:01:20-15:01:74, 15:03:01:01-15:03:04, 15:03:06-15:07:03, 15:12:01-15:12:03, 15:14, 15:19-15:20, 15:24:01-15:27:04, 15:30:01:01-15:30:01:03, 15:32:01-15:36, 15:38:01-15:40:02, 15:42-15:43, 15:45-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:63, 15:65-15:66, 15:68-15:71, 15:73:01:01-15:75, 15:77-15:79N, 15:81-15:87, 15:91-15:92, 15:94N, 15:96-15:98,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

62, 70, 72, 76	15:101-15:107, 15:109-15:111N, 15:113, 15:116-15:118, 15:122-15:123, 15:125:01-15:129, 15:131-15:132, 15:135- 15:138, 15:140-15:142, 15:145-15:147, 15:150-15:152, 15:154- 15:160:01:02, 15:163-15:167, 15:169, 15:171-15:175, 15:178- 15:179:02, 15:181N-15:185, 15:187-15:188, 15:190N, 15:192- 15:193, 15:195, 15:199, 15:201-15:207, 15:210-15:212, 15:217-15:220:03, 15:224-15:225, 15:227-15:228, 15:231- 15:237, 15:239-15:245:02Q, 15:247-15:251:03, 15:253, 15:255-15:262:02N, 15:264, 15:266-15:267, 15:269-15:272N, 15:274, 15:276-15:282, 15:286-15:289, 15:295-15:296, 15:298- 15:300, 15:304N, 15:309-15:310, 15:315-15:318, 15:320- 15:322, 15:324, 15:326-15:327, 15:331-15:334, 15:336, 15:339-15:340, 15:342-15:344, 15:346-15:349:02, 15:352- 15:353, 15:355, 15:359-15:360, 15:363:01-15:366, 15:368- 15:373, 15:375N-15:377Q, 15:379, 15:381, 15:383, 15:385- 15:387, 15:389-15:391, 15:393, 15:395, 15:397-15:398, 15:400N-15:402, 15:405-15:407, 15:409-15:410, 15:412- 15:413, 15:415-15:417, 15:419, 15:421-15:422, 15:429-15:432, 15:440-15:444, 15:448-15:450, 15:452-15:453, 15:456-15:459, 15:461, 15:463N-15:478, 15:480-15:485, 15:488-15:490, 15:492-15:494, 15:496N-15:497, 15:499, 15:501-15:502, 15:507, 15:510-15:512, 15:514-15:515, 15:517-15:522, 15:524- 15:525, 15:527-15:529, 15:531, 15:533-15:536, 15:538-15:545, 15:547, 15:549N, 15:551-15:552, 15:554, 15:556, 15:558- 15:562N, 15:564-15:566, 15:568, 15:571-15:572, 15:576- 15:591, 15:593-15:595, 15:597-15:601, 15:604N-15:606, 15:608-15:610, 15:614:01:01-15:614:01:02, 15:616Q-15:618, 15:621, 15:624-15:626, 15:628, 18:12:01-18:12:02, 18:178, 18:195, 27:01-27:21:02, 27:24-27:91, 27:93-27:108, 27:110- 27:156, 27:158-27:214, 27:216-27:241, 27:243N-27:245, 27:247-27:255, 35:10, 35:13, 35:16, 35:28:01:01-35:28:01:03, 35:63, 35:69, 35:80, 35:207, 35:226, 35:270, 35:317-35:318, 35:361, 35:477, 35:534, 35:541, 37:01:01:01-37:07, 37:09- 37:66, 37:68-37:102, 38:03-38:04, 38:25, 39:02:01:01- 39:02:03, 39:08, 39:13:01-39:13:02, 39:22-39:23, 39:49, 39:101, 39:105, 39:110, 39:162, 39:164, 39:184, 40:01:01- 40:07, 40:09-40:16:01:02, 40:18-40:24, 40:26-40:40, 40:42- 40:67, 40:70:01-40:105, 40:107-40:165, 40:167-40:231, 40:233-40:312, 40:314-40:356, 40:358-40:480, 40:482- 40:511N, 41:01:01:01-41:75, 42:11, 44:02:01:01-44:02:21, 44:02:23-44:02:64, 44:02:66-44:03:35, 44:03:37-44:03:44, 44:03:46-44:05:05, 44:07-44:11, 44:13-44:170, 44:172-44:231, 44:233-44:245, 44:247-44:262, 44:264-44:346, 44:437-44:524, 44:526-44:546, 45:01:01:01-45:21, 45:23-45:25, 45:27-45:28N, 47:01:01:02-47:12, 48:01:01:01-48:05, 48:07-48:15, 48:17- 48:38, 48:40-48:53, 49:01:01:01-49:14, 49:16-49:25, 49:27- 49:62, 49:64-49:66, 49:68-49:76, 50:01:01:01-50:02:01:02, 50:04:01-50:14, 50:16-50:20, 50:31-50:79, 51:310, 52:01:01:01-52:72, 52:74-52:106, 53:17:01-53:17:02, 53:28, 53:38, 54:35, 55:18, 55:34, 55:40, 56:67, 78:05-78:06		
63 <sup>7,13,14</sup> 160 bp, 370 bp	1070 bp	8, 22, 44, 45, 47, 51, 54, 57	*08:87, 08:255, 15:578, 27:127, 41:55, 44:02:01:01-44:02:77, 44:06, 44:08-44:09, 44:11-44:12, 44:16, 44:19N-44:24, 44:27:01:01-44:27:04, 44:33-44:34:02, 44:41:01-44:41:02, 44:44, 44:48-44:49, 44:52N-44:53:02, 44:55,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				44:59:01-44:59:02, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:83-44:84:02, 44:86-44:87, 44:89-44:91, 44:93, 44:95, 44:97, 44:99-44:102, 44:104, 44:106, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01-44:127, 44:131-44:132, 44:137-44:138Q, 44:142, 44:145, 44:148-44:149N, 44:151-44:152, 44:162, 44:168-44:173, 44:176-44:177, 44:179, 44:185, 44:187, 44:190-44:191, 44:195N-44:196, 44:200-44:201, 44:206, 44:208, 44:211-44:212, 44:214, 44:216, 44:218-44:221, 44:225, 44:229, 44:235, 44:238, 44:240-44:244, 44:249, 44:253-44:255, 44:257, 44:260-44:262, 44:265, 44:267N, 44:269-44:270:02, 44:273-44:274, 44:279, 44:287, 44:289, 44:291-44:293, 44:296-44:297, 44:301, 44:303N, 44:306N, 44:311-44:315, 44:320-44:322, 44:326-44:327, 44:329, 44:331, 44:334N-44:335, 44:337-44:338, 44:341N-44:344, 44:437, 44:439, 44:441-44:442, 44:445-44:446, 44:448N-44:449N, 44:451-44:453, 44:455, 44:457, 44:461-44:464:01:02, 44:467-44:468, 44:470, 44:473, 44:477-44:480Q, 44:482, 44:484, 44:492, 44:494-44:495, 44:497-44:499, 44:502-44:503, 44:505, 44:515, 44:517-44:518, 44:520-44:521, 44:523N, 44:526, 44:528, 44:532, 44:534-44:535, 44:537, 44:540, 44:543-44:544N, 51:274, 54:01:01:01-54:44, 83:01
64	180 bp, 210 bp, 240 bp	1070 bp	13, 15, 18, 35, 39, 40, 54, 55, 56, 59, 78	*07:65, 07:206, 08:09, 08:26:03, 08:56:03, 08:84, 08:181, 13:06, 13:46, 13:53, 13:131, 14:37, 15:32:02, 15:42, 15:83:01:01-15:83:01:02, 15:86, 15:224, 15:485, 18:04:01, 18:98:02, 18:125, 18:191, 35:03:27, 35:08:05, 35:42:02, 35:60, 35:185, 35:276, 39:06:01:01-39:06:07, 39:17, 39:34, 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, 40:01:11, 40:58, 41:66, 42:04, 45:08, 46:18, 46:40:01, 49:76, 50:45, 50:49, 51:21, 51:36, 51:101, 51:143, 51:153, 51:157, 51:197, 51:280, 51:295, 51:300, 51:340, 52:37, 52:71, 52:84, 54:01:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10-54:25, 54:27-54:32, 54:34-54:39, 54:41-54:44, 55:01:01:01-55:03, 55:05, 55:07, 55:10-55:21, 55:23, 55:25-55:48, 55:50, 55:52-55:85, 55:87-55:109, 55:111-55:123, 56:05:01, 56:06, 56:10, 56:23, 56:54, 56:66, 57:26, 59:01:01:01-59:03, 59:05-59:08, 59:10N-59:11, 78:01:01:02-78:01:02, 78:02:02-78:03, 78:07-78:10, <b>C*01:90, C*06:72, C*07:536, C*07:758, C*08:207, C*12:183, C*14:92, C*15:91, C*15:128</b>
65 <sup>8</sup>	180 bp, 205 bp	1070 bp	7, 12, 15, 21, 22, 44, 45, 49, 50, 56, 61, 62, 82	*07:29, 07:186, 07:383, 08:123, 08:132, 13:03, 13:48, 13:120, 13:146, 13:164, 15:73:01:01-15:73:01:02, 15:303, 15:486, 15:552, 35:432, 35:446, 35:545, 40:71, 44:10, 44:15:01:01-44:15:01:02, 44:18:01:01-44:18:01:02, 44:140, 44:339-44:340, 45:01:01:01-45:01:12, 45:04-45:07, 45:11-45:23, 45:24 <sup>w</sup> , 45:25, 45:27-45:28N, 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, 49:51-49:60N, 49:62-49:75, 50:01:01:01-50:02:01:02, 50:04:01-50:08, 50:10-50:13, 50:15-50:19, 50:32, 50:34-50:38, 50:40-50:44, 50:46-50:48, 50:50-50:79, 51:15, 51:62, 51:106:01-51:106:02, 51:223, 51:225, 52:25:01-52:25:02, 54:03, 54:33, 54:40, 56:01:01:01-56:01:04, 56:01:06-56:01:12, 56:01:14-56:02:03, 56:04:01:01-56:04:04, 56:07-56:08, 56:13-56:14,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				56:16-56:17, 56:20:01-56:20:02, 56:24-56:30, 56:33-56:49, 56:51-56:53, 56:55:01:02-56:59, 56:61-56:65, 56:67-56:86, 58:73, 59:04, 59:12, 82:01:01:01-82:04, <b>C*03:19, C*03:102</b>
<b>66<sup>5,8</sup></b>	90 bp, 150 bp, 410 bp	<b>800 bp</b>	57	*15:462, 39:172, 57:01:01:01-57:01:22, 57:01:24-57:01:44, 57:02:01:01-57:04:01, 57:04:03-57:35, 57:37-57:88, 57:90-57:108, 57:110-57:127, 57:129-57:156, 58:36, <b>C*06:140</b>
<b>67<sup>5,12</sup></b>	90 bp	1070 bp	5, 13, 17, 39, 55, 56, 58, 60, 61, 62, 71	*07:182N, 07:424, 13:11, 13:58, 15:18:03, 15:73:01:01-15:73:01:02, 15:86, 15:224, 15:486, 18:191, 35:60, 35:291, 35:432, 35:446, 35:545, 39:17, 40:48, 40:71, 40:377, 45:22, 49:03, 49:47:01-49:47:02, 50:51 <sup>w</sup> , 51:15, 51:62, 51:106:02, 51:157, 51:225, 51:300, 52:25:01, 56:02:01:01-56:02:03, 56:04:01:01-56:04:04, 56:10, 56:45, 56:51, 56:56-56:57, 56:63, 56:66, 57:120, 58:01:01:01-58:01:20, 58:01:21 <sup>w</sup> , 58:01:22-58:02:02, 58:04-58:29, 58:31N-58:35, 58:37-58:43, 58:45:01-58:99, 58:101-58:110, 58:112-58:135, 82:03, <b>A*02:339, C*02:510, C*02:06:01-02:06:02, C*02:47, C*05:132, C*06:168<sup>w</sup>, C*06:224<sup>w</sup>, C*07:536, C*07:725, C*08:207, C*12:03:66<sup>w</sup>, C*12:15<sup>w</sup>, C*12:208, C*15:58<sup>w</sup>, C*15:72, C*15:225</b>
<b>68<sup>5</sup></b>	95 bp	1070 bp	8, 18, 22, 35, 37, 38, 39, 44, 51, 5102, 5103, 53, 78	*07:65 <sup>w</sup> , 07:134 <sup>w</sup> , 08:32, 08:133, 08:180, 08:239, 15:308, 18:01:01:01-18:03:01:03, 18:04:01-18:11, 18:13-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:106Q, 18:108-18:124, 18:126-18:177, 18:179-18:194:01:02, 18:196-18:219, 35:01:01:01-35:01:55, 35:01:57-35:08:04, 35:08:06-35:09:04, 35:11:01-35:12:04, 35:14:01-35:15:02, 35:17:01:01-35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:43:01, 35:43:03-35:45, 35:48, 35:50-35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74-35:75, 35:76 <sup>w</sup> , 35:77-35:79, 35:81-35:153, 35:155-35:185, 35:187-35:190, 35:192-35:197, 35:199-35:206, 35:208:01-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:253, 35:255-35:269, 35:272-35:273, 35:275-35:310, 35:312-35:316, 35:319-35:360, 35:362-35:449, 35:451-35:476, 35:478-35:533, 35:535-35:540, 35:542N-35:547, 37:08, 37:67, 38:06-38:07, 39:19:01-39:19:02, 39:186, 44:06, 45:22, 51:01:01:01-51:24:05, 51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:117, 51:119-51:146, 51:148-51:230:01:03, 51:232:01-51:266, 51:268-51:283, 51:285-51:309, 51:311-51:358, 53:01:01:01-53:16, 53:18-53:27, 53:29, 53:31-53:37, 53:40-53:68, 56:06 <sup>w</sup> , 56:45 <sup>w</sup> , 78:01:01:02-78:04, 78:07-78:10
<b>69<sup>5,9</sup></b>	115 bp, 150 bp	1070 bp	15, 18,22, 27, 35, 39, 46, 55, 62, 72, 73, 75, 76	*07:100, 07:428, 13:31, 13:41, 13:131, 13:145, 13:164, 15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:18-15:01:30, 15:01:32-15:01:74, 15:04:01:01-15:04:04, 15:07:01:01-15:08:02, 15:11:01-15:12:03, 15:14-15:15:01:02, 15:19, 15:24:01-15:24:02, 15:26N-15:28, 15:30:01:01-15:30:01:03, 15:32:01-15:32:02, 15:34:01-15:35:01:02, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73:01:01-15:73:01:02, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125:01-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160:01:02, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189:01-15:193, 15:201-15:203,



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 15:239, 15:241, 15:244-15:247, 15:251:01-15:251:03, 15:256-15:262:02N, 15:264, 15:267, 15:269-15:270, 15:272N, 15:276-15:280, 15:284-15:286, 15:296, 15:298-15:299, 15:303-15:305, 15:309, 15:315-15:318, 15:320-15:321Q, 15:324, 15:326-15:327, 15:331, 15:333-15:334, 15:336, 15:340, 15:342-15:344, 15:346-15:347, 15:349:01-15:350, 15:353, 15:355, 15:359, 15:363:01-15:363:02, 15:365, 15:367-15:368, 15:370-15:373, 15:375N, 15:377Q, 15:381, 15:385-15:387, 15:390-15:392, 15:398, 15:400N-15:401, 15:405-15:406, 15:409-15:410, 15:412-15:413, 15:415-15:417, 15:419, 15:422, 15:428-15:432, 15:440-15:443, 15:450, 15:452-15:453, 15:456-15:457, 15:459, 15:461, 15:464-15:467, 15:469-15:474, 15:476-15:484, 15:486, 15:488-15:490, 15:492-15:493, 15:496N, 15:498-15:499, 15:501, 15:507, 15:510, 15:512-15:515, 15:520Q-15:522, 15:525, 15:528N-15:529, 15:531, 15:533-15:536, 15:538, 15:540N-15:542, 15:545, 15:547, 15:549N, 15:551, 15:554, 15:556, 15:558-15:559, 15:561-15:562N, 15:565, 15:568, 15:572, 15:576, 15:579-15:581, 15:583, 15:585-15:586, 15:590-15:591, 15:593-15:595, 15:597-15:598, 15:600-15:601, 15:604N-15:606, 15:608-15:609, 15:618, 15:621-15:622, 15:624, 18:19, 18:164, 27:25, 27:75, 27:115, 27:161, 27:245, 35:14:01-35:14:03, 35:43:01, 35:43:03-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 35:213, 35:265, 35:343, 35:390N, 35:413, 35:475-35:476, 35:512, 37:60, 37:66, 39:18, 39:36, 44:146, 44:275, 44:299, 46:01:01:01-46:02, 46:04-46:05, 46:07N, 46:09-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:26-46:32:02, 46:34-46:42, 46:44, 46:46-46:53, 46:55N-46:57, 46:60-46:61, 46:63-46:82, 46:84-46:92, 46:94-46:95N, 50:47, 51:61:01-51:61:02, 51:220, 52:21:01-52:21:02, 52:97, 54:06, 54:33, 54:40, 55:21, 56:03, 56:43, 57:147, 58:78, 73:01:01:01-73:03, <b>A*25:66, A*26:68, A*26:100, A*26:200, A*68:56, C*02:56, C*06:20, C*12:50</b>
<b>70<sup>8,15</sup></b>	360 bp	1070 bp	B <sup>w</sup> 4	*07:27, 07:36, 07:38, 07:81, 07:149, 07:180, 07:219, 07:236, 07:273, 07:453, 08:02-08:03, 08:52, 08:78, 08:117, 08:126, 08:255, 08:271, 13:01:01:01-13:04, 13:06-13:08, 13:10-13:23, 13:25-13:38, 13:40-13:66, 13:68-13:171, 14:93, 15:13:01-15:13:03, 15:16:01:01-15:17:07, 15:23-15:24:02, 15:36, 15:43, 15:67, 15:87, 15:89:01-15:89:02, 15:95, 15:115, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:254, 15:256, 15:268, 15:273, 15:339, 15:356, 15:361-15:362, 15:396, 15:403, 15:408, 15:411, 15:418, 15:423-15:424, 15:442, 15:446, 15:462, 15:500, 15:505, 15:516, 15:523, 15:532, 15:546Q, 15:550, 15:555, 15:575N, 15:586, 15:594, 15:602-15:603, 15:613, 15:619, 18:09, 18:54, 18:67, 18:136, 18:194:01:01-18:195, 27:01-27:05:36, 27:05:38-27:07:06, 27:09-27:11, 27:13:01-27:17, 27:19:01:01-27:21:02, 27:23-27:25, 27:27-27:32, 27:34-27:39, 27:41, 27:43, 27:45-27:88, 27:90:01-27:152, 27:154-27:168, 27:170-27:203, 27:205-27:214, 27:216-27:241, 27:243N-27:255, 35:36, 35:329, 35:471, 37:01:01:01-37:04:02, 37:06:01-37:10, 37:12-37:36, 37:38-37:66, 37:68-37:95, 37:97-37:102,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				38:01:01:01-38:97, 38:160-38:174, 40:13, 40:19, 40:47, 40:96, 40:109-40:110, 40:117, 40:157, 40:188, 40:201, 40:207, 40:246, 40:292, 40:340, 40:394, 41:46, 41:60, 44:02:01:01-44:08, 44:10-44:45, 44:47-44:74, 44:76-44:89, 44:91-44:128:02, 44:130, 44:132-44:245, 44:247-44:253, 44:255-44:276, 44:278-44:344, 44:346, 44:437, 44:439-44:457, 44:459-44:524, 44:526-44:546, 47:01:01:02-47:01:06, 47:03-47:12, 48:18, 49:01:01:01-49:14, 49:16-49:20, 49:22-49:76, 51:01:01:01-51:24:05, 51:26-51:46, 51:48-51:358, 52:01:01:01-52:106, 53:01:01:01-53:68, 54:12, 55:90, 55:103, 55:121, 56:07, 56:21, 56:46, 56:65, 57:01:01:01-57:11, 57:13-57:156, 58:01:01:01-58:02:02, 58:04-58:29, 58:31N-58:63, 58:65-58:127, 58:129-58:135, 59:01:01:01-59:12
71	350 bp	1070 bp	B <sup>w</sup> 6	*07:02:01:01-07:02:05, 07:02:07-07:02:77, 07:02:79-07:26, 07:28-07:35, 07:37:01-07:37:02, 07:39-07:80, 07:82-07:148, 07:150-07:179, 07:181N-07:191, 07:193-07:218, 07:220-07:235, 07:237-07:272N, 07:274-07:452, 07:454-07:457, 08:01:01:01-08:01:66, 08:04:01-08:05, 08:07-08:51, 08:53:01-08:77, 08:79-08:116, 08:118-08:125, 08:127-08:130, 08:132-08:135, 08:137-08:138, 08:140-08:152, 08:154-08:156, 08:158-08:254, 08:256-08:270Q, 08:272-08:292, 13:09, 13:39, 13:67, 14:01:01:01-14:92, 14:94-14:109, 15:01:01:01-15:01:04, 15:01:06-15:01:70, 15:01:72-15:12:03, 15:14-15:15:01:02, 15:18:01:01-15:21:01:02, 15:25:01:01-15:35:01:02, 15:37-15:40:02, 15:42, 15:44-15:58, 15:60-15:66, 15:68-15:86, 15:88, 15:90-15:94N, 15:96-15:99, 15:101-15:114, 15:116-15:129, 15:131-15:156, 15:158-15:161, 15:163-15:167, 15:169-15:176, 15:178-15:195, 15:197:01-15:207, 15:209N-15:215, 15:217-15:221, 15:223-15:229, 15:231-15:253, 15:255, 15:257-15:267, 15:269-15:272N, 15:274-15:276, 15:278-15:338, 15:340-15:355, 15:357-15:360, 15:363:01-15:376, 15:378-15:395, 15:397-15:402, 15:404-15:407, 15:409-15:410, 15:412-15:417, 15:419-15:422, 15:425-15:429, 15:431-15:441, 15:443-15:445, 15:447-15:461, 15:463N-15:499, 15:501-15:504, 15:506-15:515, 15:517-15:522, 15:524-15:531, 15:533-15:545, 15:547-15:549N, 15:551-15:554, 15:556-15:574, 15:576-15:585, 15:587-15:593, 15:595-15:601, 15:604N-15:612, 15:614:01:01-15:618, 15:620-15:628, 18:01:01:01-18:08, 18:10-18:15, 18:17N-18:53, 18:55-18:66, 18:68-18:135:01:02, 18:137-18:178, 18:180-18:193, 18:196-18:219, 27:08, 27:12:01:01-27:12:01:03, 27:18, 27:26, 27:33, 27:40, 27:42, 27:44, 27:89, 27:153, 27:165 <sup>w</sup> , 27:204:01:01-27:204:01:02, 27:242, 35:01:01:01-35:01:38, 35:01:40-35:02:08, 35:02:10-35:43:01, 35:43:03-35:72, 35:74-35:221, 35:223-35:247, 35:249-35:292, 35:294-35:328, 35:330-35:423, 35:425-35:470, 35:472-35:521, 35:523-35:524, 35:526-35:547, 37:05, 37:11, 37:14 <sup>w</sup> , 37:37, 37:67, 39:01:01:01-39:01:01:25, 39:01:03:01-39:01:14, 39:01:16-39:20, 39:22-39:103, 39:105-39:187, 40:01:01-40:12:02, 40:14:01-40:16:01:02, 40:18, 40:20:01:01-40:40, 40:42-40:46, 40:48-40:75, 40:77-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:156, 40:158-40:187, 40:189-40:200, 40:202-40:291N, 40:293-40:339, 40:341-40:393, 40:395-40:399N, 40:401-40:511N, 41:01:01:01-41:25, 41:27-41:45N, 41:47-41:59, 41:61-41:75, 42:01:01:01-42:02:02, 42:04-42:21,



0197

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



101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				42:23-42:32, 44:09, 44:46:01-44:46:02, 44:75, 44:90, 44:129, 44:131, 44:254, 44:277, 44:438N, 45:01:01:01-45:01:08, 45:01:10-45:15, 45:17-45:25, 45:27-45:28N, 46:01:01:01-46:95N, 47:02, 47:03 <sup>w</sup> , 48:01:01:01-48:17, 48:19-48:53, 50:01:01:01-50:02:01:02, 50:04:01-50:20, 50:31-50:79, 54:01:01:01-54:11, 54:13-54:44, 55:01:01:01-55:05, 55:07-55:89N, 55:91-55:102, 55:104-55:120, 55:122-55:123, 56:01:01:01-56:06, 56:08-56:20:02, 56:22-56:45, 56:47-56:64, 56:66-56:86, 57:12, 58:64, 67:01:01-67:07, 73:01:01:01-73:03, 78:01:01:02-78:10, 81:01:01:01-81:10, 82:01:01:01-82:04, 83:01
72	285 bp	1070 bp	7, 703, 8, 35, 40, 41, 42, 48, 53, 60, 61, 81	*07:02:01:01-07:02:05, 07:02:07-07:02:38, 07:02:40-07:02:84, 07:02:86-07:06:05, 07:08:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:52, 07:54-07:59, 07:61-07:76, 07:79-07:83, 07:85:01-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:164, 07:166-07:192, 07:194-07:195, 07:199-07:213, 07:215-07:234, 07:236-07:238, 07:240-07:254, 07:256-07:342, 07:344-07:358, 07:360Q-07:385, 07:387-07:428, 07:430-07:441, 07:443-07:457, 08:01:01:01-08:01:20, 08:01:22-08:01:24, 08:01:26-08:05, 08:07-08:08N, 08:10-08:11, 08:13-08:15, 08:17-08:30N, 08:32-08:83, 08:85-08:88, 08:90-08:102, 08:104-08:106, 08:108-08:112, 08:114-08:115, 08:117-08:133, 08:135-08:168, 08:170-08:174, 08:176-08:183, 08:185-08:231, 08:233-08:253, 08:256-08:273, 08:275-08:290, 08:292, 15:297, 27:164, 35:66, 35:87, 35:530, 37:07, 40:15-40:16:01:02, 40:30-40:32, 40:34, 40:45, 40:59, 40:80, 40:98, 40:137, 40:160:01-40:160:02, 41:02:01:01-41:02:11, 41:04, 41:10-41:11, 41:13, 41:18-41:19, 41:23-41:24, 41:27, 41:31, 41:36, 41:38-41:43, 41:45N-41:49, 41:51-41:52, 41:55, 41:58, 41:65, 41:68-41:69, 41:71-41:72, 41:74, 42:01:01:01-42:02:02, 42:05:01-42:07, 42:09-42:13, 42:15-42:32, 44:150, 44:166, 44:342, 48:01:01:01-48:01:10, 48:05-48:12, 48:14-48:20, 48:22, 48:27-48:39, 48:41-48:50, 48:52, 53:15, 81:01:01:01-81:10, <b>C*03:260</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 low resolution 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 25 contains the shorter, 800 bp, internal positive control band. The well distribution of the



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

**Lot No.: 0R8**

**Lot-specific information**

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>The serological reactivity of all HLA-B alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

<sup>4</sup>For several HLA Class I alleles 1st and/or 4th 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>5</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>6</sup>Primer mix 28 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes in B\*40, B\*41, B\*45, B\*49 and B\*50 alleles.

<sup>7</sup>Primer mixes 28, 29, 33, 42, 53 and 63 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes.

<sup>8</sup>Primer mixes 32, 33, 38, 42, 59, 62, 65, 66 and 70 have tendencies of unspecific amplifications, most pronounced in primer mix 33.

<sup>9</sup>Primer mixes 25, 27, 43, 44, 50, 55 and 69 have a tendency giving rise to primer oligomer formation.

<sup>10</sup>The B\*57 and B\*58 alleles might be faintly amplified by primer mix 33.

<sup>11</sup>Many C\*17 alleles may be faintly amplified by primer mix 49.

<sup>12</sup>Primer mix 67 may generate a false positive band of about 800 base pairs. This band should be disregarded when interpreting HLA-B low resolution typings.

<sup>13</sup>Primer mix 63 may give rise to a lower yield of B\*54 alleles than the other B low primer mixes.

<sup>14</sup>Primer mix 63 may amplify B\*44:05 samples.

<sup>15</sup>The Bw4-associated HLA-A specificities A9, A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 70.

Abbreviations

w: might be weakly amplified.

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



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information  
**SPECIFICITY TABLE**

Specificities and sizes of the PCR products of the 23+1 primer mixes used for  
DR low resolution SSP typing

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	DR serology <sup>3</sup>	Amplified HLA-DRB alleles <sup>4,5</sup>
<b>73<sup>7</sup></b>	210 bp, 235 bp, 260 bp	<b>515 bp</b>	1	*01:01:01:01-01:02:13, 01:04-01:38, 01:40N-01:98, 01:100-01:101, 01:103-01:111, 01:113-01:126
<b>74</b>	200 bp	430 bp	1, 103	*01:03:01-01:03:05, 01:39N, 01:42, 01:61, 01:89, 01:99, 01:102, 01:112
<b>75<sup>9,10</sup></b>	200 bp, 230 bp	430 bp	2, 15	*15:01:01:01-15:198, 16:66
<b>76</b>	210 bp	430 bp	11, 16	*11:30, 11:288, 12:57, 16:01:01-16:05:02, 16:07-16:71, <b>DRB3*02:111</b>
<b>77<sup>5,6</sup></b>	75 bp, 205 bp	<b>515 bp</b>	3, 11, 13, 17, 18	*03:01:01:01-03:11:01, 03:11:03-03:125, 03:127-03:192, 11:07:01-11:07:02, 11:27:02-11:27:03, 11:84:02-11:84:03, 11:103:01-11:103:02, 11:105, 11:107, 11:124:02-11:125, 11:136, 11:173, 13:33:01, 13:61:02, 13:94:01, 13:96:01, 14:38:02, 14:104, 14:111, 14:171, 15:25, 15:37:01, 15:100, 15:104:01
<b>78<sup>5,6</sup></b>	75 bp, 210 bp	430 bp	3, 6, 11, 13, 14, 17	*03:01:01:01-03:01:23, 03:01:25-03:01:37, 03:04:01-03:06, 03:08-03:11:01, 03:11:03-03:16, 03:18-03:20, 03:22-03:23, 03:25:01-03:26, 03:28, 03:30-03:31, 03:33-03:34, 03:36-03:37, 03:43-03:48, 03:50-03:52:02, 03:54-03:68N, 03:70-03:73, 03:75-03:86, 03:89, 03:91-03:93, 03:95-03:96, 03:98-03:100:02, 03:104, 03:106-03:114, 03:116-03:118, 03:121-03:130, 03:132-03:149, 03:151-03:153, 03:156N-03:166, 03:168-03:170, 03:172, 03:174N-03:175, 03:177, 03:180-03:184, 03:186-03:187, 03:189N, 03:191-03:192, 08:40, 08:92, 11:02:01:01-11:03:04, 11:11:01, 11:11:03, 11:14:01:01-11:14:02, 11:16:01:01-11:16:01:02, 11:20-11:21, 11:36, 11:40-11:41, 11:48, 11:59, 11:63:01-11:63:02, 11:65:01-11:65:02, 11:68, 11:70, 11:73, 11:76, 11:79-11:80, 11:83, 11:85-11:87, 11:93, 11:118:01-11:118:02, 11:122, 11:124:01-11:124:02, 11:127, 11:131-11:132, 11:135, 11:138-11:139, 11:142, 11:151, 11:153, 11:161, 11:168, 11:171, 11:176, 11:182, 11:184, 11:213, 11:229, 11:231, 11:233, 11:237, 11:241-11:242, 11:251, 11:256, 11:260, 11:270, 11:276, 11:290, 11:293, 12:73, 13:01:01:01-13:02:01:11, 13:02:02 <sup>?</sup> , 13:02:03-13:04, 13:08, 13:10, 13:15-13:17, 13:19-13:20:01:03, 13:22:01:01-13:24:01:03, 13:27:01-13:29:01:02, 13:31-13:41, 13:43, 13:45, 13:48, 13:51-13:54, 13:57, 13:59, 13:61:01-13:61:02, 13:63-13:66:02, 13:68-13:76, 13:78-13:81, 13:83-13:85, 13:87-13:99, 13:101-13:102, 13:104-13:107, 13:109, 13:110 <sup>?</sup> , 13:111-13:117:01:02, 13:120-13:131, 13:133, 13:135, 13:137N-13:145, 13:147-13:149, 13:151-13:153, 13:155, 13:159, 13:162, 13:165-13:166, 13:167 <sup>?</sup> , 13:168, 13:170-13:180, 13:182-13:188, 13:190-13:191, 13:193-13:194, 13:196, 13:198, 13:200N-13:202, 13:204-13:205, 13:207-13:209, 13:212-13:219, 13:221, 13:223, 13:225-13:227,



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				13:230, 13:233-13:234, 13:236-13:245, 13:247-13:283, 13:285, 13:287-13:288, 13:289N <sup>?</sup> , 13:290-13:294, 13:296-13:301, 13:303-13:313, 13:315-13:320, 14:16, 14:19, 14:21, 14:45, 14:82, 14:95, 14:109, 14:120, 14:122, 14:132, 14:178-14:179
<b>79<sup>6</sup></b>	85 bp, 210 bp	430 bp	3, 6, 11, 13, 14, 1403, 18	*03:02:01:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74, 03:88, 03:90, 03:102-03:103, 03:115, 03:119, 03:126, 03:131, 03:154, 03:167, 03:176-03:177, 03:179, 11:13:01 <sup>w</sup> -11:13:02 <sup>w</sup> , 11:26, 11:34, 11:267, 13:15, 13:19, 13:26:01-13:26:02, 13:44, 13:53, 13:57, 13:85-13:86, 13:104, 13:193, 13:198, 13:206, 13:235, 14:02:01:01-14:03:02, 14:06:01-14:06:06, 14:09, 14:12:01-14:13, 14:17-14:21, 14:24, 14:27:01-14:27:02, 14:29-14:30, 14:32:01 <sup>w</sup> -14:32:02 <sup>w</sup> , 14:33, 14:40-14:41, 14:47-14:49, 14:51, 14:63, 14:65 <sup>w</sup> , 14:67, 14:77-14:78, 14:80-14:81, 14:83, 14:85, 14:89, 14:94, 14:98, 14:102, 14:106, 14:108-14:109, 14:115, 14:119, 14:121, 14:135, 14:146, 14:154, 14:156, 14:159-14:160, 14:165, 14:170, 14:174, 14:176-14:177, 14:179, 14:181, 14:183, 14:194-14:195N, 14:198, 14:200, 14:209, 14:212, 14:218, 14:221-14:223, 14:226, 14:239
<b>80<sup>6,7,9</sup></b>	100 bp, 175 bp	430 bp	3, 4	*04:01:01:01-04:05:11, 04:05:13-04:336
<b>81<sup>9</sup></b>	170 bp, 210 bp, 235 bp	430 bp	7, 13, 14	*07:01:01:01-07:01:01:02, 07:01:01:04-07:01:28, 07:03-07:133, 08:67, 08:92, 08:108, 10:11, 11:229, 11:270, 12:22, 12:73, 12:88, 13:17, 13:116, 13:175, 13:214, 14:50
<b>82<sup>6</sup></b>	85 bp, 120 bp, 215 bp, 250 bp	<b>515 bp</b>	7, 8, 14	*07:06, 08:01:01-08:01:02, 08:01:04-08:19, 08:21-08:30:03, 08:32-08:56, 08:58-08:66, 08:68:01-08:79, 08:81-08:97, 08:99-08:111, 11:67, 11:193:01-11:193:02, 12:16:01-12:16:03, 12:22, 12:39:01-12:39:02, 13:171:01, 13:197, 14:15, 14:68:01-14:68:02, 14:93
<b>83<sup>6</sup></b>	85 bp, 100 bp, 135 bp, 160 bp, 190 bp	430 bp	3, 9, 11	*03:08, 03:65, 03:140, 09:01:02:01-09:51, 11:07:01-11:07:02, 11:103:01-11:103:02, 11:105, 11:107, 11:125, 11:173, <b>DRB3*01:42</b>
<b>84<sup>6,9</sup></b>	70 bp, 175 bp	430 bp	9, 10,11,13	*03:76, 03:125, 03:174N, 10:01:01:01, 10:01:01:03-10:43, 11:59, 11:80, 11:83, 11:87, 11:135, 11:142, 11:182, 13:27:01-13:27:02, 13:41, 13:71, 13:129, 13:176, 13:277, 14:179
<b>85<sup>6</sup></b>	100 bp, 175 bp	430 bp	3, 8, 11, 13, 14	*03:08, 03:65, 03:140, 08:31, 08:41, 08:63, 08:75, 11:01:01:01, 11:01:01:03-11:11:01, 11:11:03-11:70, 11:72-11:263, 11:265-11:292, 11:294N-11:298
<b>86<sup>6</sup></b>	90 bp, 110 bp	430 bp	12, 14	*08:32, 08:53, 08:87, 12:01:01:01-12:56, 12:58-12:94, 14:52
<b>87<sup>7</sup></b>	220 bp	430 bp	6, 8, 11, 13, 14, 1403	*03:76, 03:125, 03:174N, 08:20-08:21, 11:01:01:01, 11:01:01:03-11:01:27, 11:01:28 <sup>?</sup> , 11:01:29-11:04:22, 11:06:01-11:06:03, 11:08:01-11:11:01, 11:11:03-11:12:03, 11:14:01:01-11:16:01:02, 11:18-11:21, 11:23:01-11:25, 11:27:01-11:33, 11:35-11:51, 11:54:01-11:54:02, 11:56-11:66:02, 11:68, 11:70, 11:72-11:81, 11:83-11:88, 11:90-11:97, 11:99-11:102:02, 11:106, 11:108-11:124:02, 11:126-11:135, 11:137-11:142, 11:144-11:158, 11:160-11:172, 11:174-11:192, 11:194:01-11:201, 11:203-11:208,



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				11:210-11:228, 11:230-11:260, 11:262-11:265, 11:268-11:269, 11:271-11:282, 11:284-11:298, 12:57, 13:01:01:01-13:02:01:11, 13:02:03-13:08, 13:10-13:16:01:02, 13:18-13:43, 13:45-13:85, 13:87-13:115, 13:117:01:01-13:128, 13:130-13:145, 13:147-13:174, 13:176-13:182, 13:184-13:191, 13:194-13:205, 13:207-13:209, 13:212-13:213, 13:215-13:221, 13:223-13:247, 13:249N-13:288, 13:290-13:298N, 13:300-13:313, 13:315-13:320, 14:03:01-14:03:02, 14:12:01-14:12:02, 14:16, 14:19, 14:21-14:22, 14:25:01-14:25:02, 14:27:01-14:27:02, 14:40, 14:53, 14:63, 14:67, 14:69, 14:74, 14:77-14:78, 14:84-14:85, 14:98, 14:102, 14:105, 14:109, 14:115-14:116, 14:128, 14:135, 14:144, 14:156, 14:173-14:174, 14:181, 14:218, 14:222N-14:223, 14:235, 14:239, <b>DRB3*02:27, DRB3*02:111, DRB3*02:131, DRB3*02:160</b>
<b>88<sup>7</sup></b>	195 bp, 225 bp	430 bp	6, 8, 11, 12, 13, 14	*03:125, 08:01:01-08:01:02, 08:01:04-08:01:05, 08:01:07-08:02:04, 08:04:01:01-08:09:02, 08:11:01:01-08:11:01:02, 08:16-08:17, 08:20-08:22, 08:24:01-08:24:02, 08:26, 08:28, 08:31, 08:39, 08:41-08:44, 08:50, 08:52, 08:54-08:55, 08:57, 08:59, 08:64, 08:67, 08:70, 08:72-08:73, 08:75, 08:77-08:80, 08:82-08:90, 08:92-08:94, 08:96, 08:98-08:101, 08:103, 08:105-08:109, 08:111, 11:01:01:01, 11:01:01:03-11:01:17, 11:01:20-11:04:20, 11:04:22-11:06:03, 11:09:01:01-11:11:01, 11:11:03-11:12:03, 11:14:01:01-11:16:01:02, 11:20-11:21, 11:23:01-11:25, 11:27:01-11:30, 11:32-11:33, 11:35-11:41, 11:43:01:01-11:44, 11:46:01-11:51, 11:54:01-11:56, 11:58:01-11:63:02, 11:65:01-11:70, 11:72, 11:74:01-11:78, 11:80-11:88, 11:90-11:97, 11:99-11:102:02, 11:106, 11:108-11:118:02, 11:120-11:124:02, 11:126-11:129, 11:133-11:135, 11:137-11:142, 11:144-11:152, 11:154-11:158, 11:160-11:172, 11:174-11:183, 11:185-11:190, 11:192-11:201, 11:203-11:247, 11:249-11:260, 11:262-11:265, 11:269-11:279, 11:281-11:282, 11:284-11:285, 11:287N-11:298, 12:02:01:01-12:02:11, 12:13, 12:15-12:16:03, 12:18-12:21, 12:23, 12:26-12:27, 12:31N-12:33, 12:37, 12:42-12:45, 12:49-12:52, 12:55-12:57, 12:60N-12:61, 12:64-12:65, 12:67, 12:69, 12:71, 12:73-12:76, 12:78, 12:80-12:81, 12:85, 12:92-12:94, 13:01:01:01-13:02:01:11, 13:02:03-13:02:18, 13:04-13:05:03, 13:07:01-13:09, 13:11:01-13:11:02, 13:14:01-13:24:01:03, 13:26:01-13:29:01:02, 13:31-13:32, 13:34-13:36, 13:38-13:43, 13:45-13:55, 13:57, 13:59, 13:61:01-13:65, 13:67-13:76, 13:78-13:80, 13:83-13:84, 13:87, 13:91-13:93, 13:96:01-13:100, 13:102-13:109, 13:111-13:114, 13:116-13:117:01:02, 13:121, 13:123-13:132, 13:135-13:136, 13:138-13:150, 13:153, 13:155, 13:158:01-13:160, 13:162, 13:164-13:166, 13:168-13:169, 13:171:01-13:171:02, 13:173, 13:175, 13:177, 13:179, 13:182-13:187, 13:189-13:192, 13:195, 13:197-13:205, 13:207-13:215, 13:217-13:218, 13:221-13:223, 13:225-13:226, 13:229-13:230, 13:232-13:234, 13:236-13:252N, 13:254-13:288, 13:290-13:294, 13:296-13:298N, 13:300-13:316, 13:318, 13:320, 14:15-14:16, 14:22, 14:24-14:25:02, 14:27:01-14:27:02, 14:37, 14:53,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				14:73, 14:105, 14:128, 14:226, <b>DRB3*02:111,</b> <b>DRB3*02:160</b>
<b>89<sup>5</sup></b>	175 bp, 240 bp	430 bp	3, 4, 6, 8, 11, 13, 14, 1403,140 4, 17, 18	*03:01:01:01-03:01:05, 03:01:07-03:01:08, 03:01:10-03:07:02, 03:09, 03:11:01, 03:11:03-03:41:02, 03:43-03:45, 03:47-03:63, 03:66-03:68N, 03:70-03:86, 03:88-03:91, 03:93-03:110, 03:112-03:129, 03:131-03:139, 03:141-03:155, 03:157-03:161, 03:163-03:172, 03:174N-03:188, 03:191-03:192, 08:09:02, 08:20, 11:03:04, 11:04:17, 11:13:01-11:13:02, 11:17, 11:149, 11:202, 11:264, 12:20, 13:01:01:01-13:16:01:02, 13:18-13:42:02, 13:44, 13:46-13:66:02, 13:68-13:102, 13:104-13:115, 13:117:01:01-13:121, 13:123-13:158:02, 13:161-13:164, 13:166-13:170, 13:171:02-13:174, 13:176-13:178, 13:180-13:190, 13:192-13:194, 13:196, 13:198-13:213, 13:215-13:216, 13:218-13:227, 13:229-13:247, 13:249N-13:298N, 13:300-13:320, 14:01:01, 14:01:02 <sup>?</sup> -14:01:04 <sup>?</sup> , 14:01:05-14:04:01:03, 14:04:02 <sup>?</sup> -14:04:03 <sup>?</sup> , 14:04:04-14:04:06, 14:04:09-14:21, 14:22 <sup>?</sup> , 14:23:01:01-14:23:01:03, 14:23:02 <sup>?</sup> , 14:23:03-14:24, 14:25:01 <sup>?</sup> -14:26 <sup>?</sup> , 14:27:01-14:27:02, 14:28 <sup>?</sup> , 14:29-14:30, 14:31 <sup>?</sup> -14:32:03 <sup>?</sup> , 14:33, 14:34 <sup>?</sup> -14:35 <sup>?</sup> , 14:36-14:37, 14:38:01 <sup>?</sup> -14:39 <sup>?</sup> , 14:40-14:45, 14:47-14:48, 14:49 <sup>?</sup> -14:50 <sup>?</sup> , 14:51, 14:52 <sup>?</sup> , 14:54:01:01-14:54:06, 14:54:08-14:54:11, 14:55 <sup>?</sup> , 14:56-14:57, 14:58 <sup>?</sup> , 14:59, 14:60 <sup>?</sup> -14:62 <sup>?</sup> , 14:63-14:65, 14:67, 14:68:01 <sup>?</sup> -14:69 <sup>?</sup> , 14:70, 14:71 <sup>?</sup> -14:76 <sup>?</sup> , 14:77-14:78, 14:79 <sup>?</sup> , 14:80-14:85, 14:86 <sup>?</sup> -14:88 <sup>?</sup> , 14:89, 14:90 <sup>?</sup> , 14:91, 14:92N <sup>?</sup> -14:93 <sup>?</sup> , 14:94-14:96, 14:97 <sup>?</sup> , 14:98, 14:99 <sup>?</sup> , 14:100, 14:101 <sup>?</sup> , 14:102-14:103, 14:104 <sup>?</sup> -14:105 <sup>?</sup> , 14:106, 14:107 <sup>?</sup> , 14:108-14:109, 14:110 <sup>?</sup> , 14:111, 14:112 <sup>?</sup> -14:114 <sup>?</sup> , 14:115-14:116, 14:117 <sup>?</sup> -14:120 <sup>?</sup> , 14:121, 14:122 <sup>?</sup> , 14:123, 14:124 <sup>?</sup> -14:126:02 <sup>?</sup> , 14:127:01-14:127:02, 14:128 <sup>?</sup> -14:133 <sup>?</sup> , 14:134-14:137N, 14:138 <sup>?</sup> -14:140 <sup>?</sup> , 14:141, 14:142 <sup>?</sup> -14:143 <sup>?</sup> , 14:144, 14:145 <sup>?</sup> -14:151 <sup>?</sup> , 14:152N, 14:153 <sup>?</sup> , 14:154-14:156, 14:157 <sup>?</sup> -14:158 <sup>?</sup> , 14:159-14:162, 14:163 <sup>?</sup> -14:164 <sup>?</sup> , 14:165, 14:166N <sup>?</sup> , 14:167, 14:168 <sup>?</sup> , 14:169-14:171, 14:172 <sup>?</sup> -14:173 <sup>?</sup> , 14:174, 14:175 <sup>?</sup> , 14:176-14:177, 14:178 <sup>?</sup> , 14:179, 14:180 <sup>?</sup> , 14:181, 14:182 <sup>?</sup> , 14:183, 14:184 <sup>?</sup> -14:186 <sup>?</sup> , 14:187-14:188N, 14:189 <sup>?</sup> -14:190 <sup>?</sup> , 14:191-14:199, 14:201-14:202, 14:203 <sup>?</sup> , 14:204-14:207, 14:209-14:219, 14:220 <sup>?</sup> , 14:221, 14:222N <sup>?</sup> , 14:223-14:224, 14:225 <sup>?</sup> , 14:226-14:228, 14:229 <sup>?</sup> , 14:230-14:240
<b>90<sup>6</sup></b>	75 bp, 100 bp, 140 bp, 185 bp, 240 bp	430 bp	4, 6, 8, 13, 14, 1404	*04:62, 04:69, 04:73:01-04:73:02, 04:105:01-04:105:02, 04:122, 04:146, 04:162, 04:251, 04:284:01-04:284:02, 07:128, 08:08, 11:69, 11:82, 11:88, 11:293, 13:45, 13:197, 13:314, 14:01:01-14:01:02, 14:01:04-14:01:05, 14:04:01:01-14:04:09, 14:07:01-14:07:02, 14:10:01:01-14:10:01:02, 14:16, 14:22, 14:25:01-14:26, 14:28, 14:31-14:32:03, 14:35, 14:37-14:39, 14:49-14:50, 14:53-14:54:01:12, 14:54:03-14:55, 14:57-14:58, 14:60-14:62, 14:68:01-14:71, 14:73-14:76, 14:79, 14:82, 14:86-14:88, 14:90, 14:93, 14:99, 14:101, 14:104-14:105, 14:107, 14:110-14:114, 14:117-14:120, 14:122, 14:124-14:125, 14:128-14:129, 14:131, 14:137N-14:140, 14:142-14:143, 14:145-14:147, 14:149-14:153, 14:157-14:158, 14:163-14:164, 14:166N, 14:168 <sup>w</sup> ,



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				14:171-14:173, 14:178, 14:180, 14:182, 14:184, 14:186, 14:189-14:192, 14:196-14:197N, 14:199, 14:201-14:205:01, 14:207-14:208, 14:210Q, 14:213-14:217, 14:219-14:220, 14:224-14:225, 14:227-14:235, 14:237-14:238, 14:240, 15:167, <b>DRB4*01:03:01:02N, DRB4*01:03:01:13N, DRB4*01:14N</b>
<b>91<sup>6,7,8</sup></b>	110 bp, 145 bp, 170 bp	430 bp	3, 4, 6, 9, 11, 13, 14, 1404	*03:10, 03:126, 03:177, 04:211, 09:01:02:01-09:01:05, 09:01:07-09:02:02, 09:04-09:22, 09:24-09:28, 09:30-09:51, 11:13:01-11:13:02, 11:17, 11:52, 11:202, 12:66, 13:43, 13:159, 13:171:01, 13:179, 13:191, 13:193, 13:217, 14:01:01-14:02:09, 14:04:01:01-14:11:01:02, 14:13-14:14, 14:16-14:18, 14:19 <sup>w</sup> , 14:20, 14:21 <sup>w</sup> , 14:22-14:23:04, 14:26, 14:28-14:36, 14:38:01-14:39, 14:41, 14:43-14:52, 14:54:01:01-14:54:03, 14:54:04 <sup>w</sup> , 14:54:05-14:57, 14:59-14:62, 14:64-14:65, 14:68:01-14:68:02, 14:70-14:76, 14:79-14:83, 14:86-14:88, 14:90-14:97, 14:99-14:101, 14:103-14:108, 14:109 <sup>w</sup> , 14:110-14:114, 14:117-14:127:02, 14:129-14:134, 14:137N-14:140, 14:142-14:143, 14:145-14:155, 14:157-14:160, 14:162-14:173, 14:175-14:180, 14:182, 14:184-14:185, 14:187-14:207, 14:209-14:217, 14:219-14:221, 14:224-14:225, 14:227-14:238, 14:240, 15:27, 15:34, 15:54, 15:66:01-15:66:02, 15:122, 15:158, 15:187
<b>92<sup>6,7,9</sup></b>	110 bp, 150 bp, 180 bp, 220 bp	430 bp	2, 3, 6, 8, 11, 13, 14, 1403, 1404, 16	*03:10, 03:157, 08:03:11 <sup>w</sup> , 08:09:01-08:09:02, 08:20-08:21, 08:32, 08:35, 08:36:02, 08:53, 08:68:01 <sup>w</sup> , 08:70 <sup>w</sup> , 08:87 <sup>w</sup> , 11:13:01-11:13:02, 11:17, 11:23:01-11:23:02, 11:25, 11:31, 11:45, 11:52, 11:55, 11:64, 11:89, 11:96, 11:119, 11:148, 11:159, 11:202, 11:266, 11:283, 11:293, 13:13, 13:18, 13:43, 13:45, 13:47, 13:55, 13:119, 13:144, 13:146, 13:154, 13:156, 13:158:01-13:159, 13:164, 13:171:01, 13:179, 13:191, 13:197, 13:217, 13:232, 13:286, 14:01:01-14:01:05, 14:03:01-14:05:05, 14:07:01-14:08, 14:10:01:01-14:12:02, 14:14-14:16, 14:18, 14:22-14:23:04, 14:25:01-14:28, 14:31-14:32:03, 14:34-14:36, 14:38:01-14:40, 14:42-14:45, 14:49-14:50, 14:53-14:65, 14:67-14:79, 14:81-14:82, 14:84-14:93, 14:95-14:97, 14:99-14:105, 14:107, 14:110-14:120, 14:122-14:140, 14:142-14:158, 14:160-14:164, 14:166N-14:169, 14:171-14:175, 14:178, 14:180-14:182, 14:184-14:193, 14:196-14:197N, 14:199-14:208, 14:210Q-14:211, 14:213-14:220, 14:222N-14:225, 14:227-14:240, 15:21 <sup>w</sup> , 15:158 <sup>w</sup> , 15:187 <sup>w</sup> , 16:04:01 <sup>w</sup> -16:04:02 <sup>w</sup> , 16:18 <sup>w</sup> , <b>DRB3*02:131, DRB4*01:31</b>
<b>93<sup>5,6,7</sup></b>	80 bp, 110 bp, 160 bp, 190 bp, 240 bp	<b>515 bp</b>	12, 52	*12:05, 12:15, 12:57, 14:141, <b>DRB3*01:01:02:01-01:99, DRB3*02:01-02:130, DRB3*02:132-02:175, DRB3*03:01:01:01-03:21, DRB3*03:23-03:55</b>
<b>94<sup>7</sup></b>	130 bp, 210 bp	430 bp	53	*10:19, 14:217, 15:141, <b>DRB4*01:01:01:01, DRB4*01:01:01:03-01:154, DRB4*02:01N, DRB4*03:01N</b>
<b>95</b>	180 bp, 215 bp	430 bp	51	<b>DRB5*01:01:01:01-01:117, DRB5*02:02:01-02:30</b>
<b>96<sup>11</sup></b>	-	-	-	<b>Negative control</b>



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

<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 DR low resolution 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, e.g. the primers in wells 75 and 90 to 92. 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 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 73 contains the longer, 515 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. In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>The serological split of all DRB1 alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

<sup>4</sup>For several DRB1 alleles 1<sup>st</sup> and/or 3<sup>rd</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>5</sup>Due to sharing of sequence motifs in codon 38 and 47, DRB3\*01:14 will also be amplified in primer mixes 77, 78 and 89, and DRB3\*01:23 and 02:32 in mix 77, in addition to primer mix 93.

<sup>6</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>7</sup>Primer mixes 73, 80, 87, 88 and 91 to 94 may have a tendency giving rise to primer oligomer formation.

<sup>8</sup>Primer mix 91 has a tendency of primer oligomer formation and also has an intense primer cloud due to the high number of primers present in the primer mix.

<sup>9</sup>Primer mixes 75, 80, 81, 84 and 92 may have tendencies of unspecific amplifications, most pronounced in primer mix 75.

<sup>10</sup>In primer mix 75 the positive control band may be weaker than for other A-B-DR primer mixes.

<sup>11</sup>Primer mix 96 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.



0197

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



101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

### HLA-A LOW PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	120	175	205	190	160	135	175	165	80	80	80	125
PCR product	145	215	235		335	200	205	200		200	175	160
	225	255			505					240	500	190
		365										
		415										
Length of int.	800	800	1070	800	1070	800	1070	800	800	800	1070	800
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	98	48	359	98	144	176	98	98	257	98	301	103
	5'-CTT 3'	5'-gCT 3'	5'-gCA 3'	5'-CTA 3'	5'-gCC 3'	5'-gCA 3'	5'-CTC 3'	5'-CTA 3'	5'-Cgg 3'	5'-CTA 3'	5'-Cgg 3'	5'-CCT 3'
	103	78	363	413	317	368	368	102	259	261	302	415
	5'-CCT 3'	5'-TCT 3'	5'-ATA 3'	5'-CCg 3'	5'-gCT 3'	5'-gTT 3'	5'-gTT 3'	5'-ACA 3'	5'-AgA 3'	5'-AAC 3'	5'-ggA 3'	5'-ggT 3'
	123	106	363					413	261		385	423
	5'-AgT 3'	5'-CCA 3'	5'-ATA 3'					5'-CCg 3'	5'-AAC 3'		5'-ggC 3'	5'-gCT 3'
	363								266			
	5'-ATA 3'								5'-ACg 3'			
	363											
	5'-ATg 3'											
3'-primer(s) <sup>3</sup>	203	240	527	256	265	270	259	259	302	256	341	257
	5'-TCT 3'	5'-ggA 3'	5'-CCA 3'	5'-CTg 3'	5'-CCC 3'	5'-ACA 3'	5'-gTT 3'	5'-gTT 3'	5'-ggC 3'	5'-CCA 3'	5'-CgT 3'	5'-gCA 3'
	545	292	527	559	368	521	502	259	303	299	521	506
	5'-AgA 3'	5'-gTg 3'	5'-CCT 3'	5'-CCg 3'	5'-CAA 3'	5'-ggg 3'	5'-CTT 3'	5'-gTT 3'	5'-AgA 3'	5'-TCg 3'	5'-ggg 3'	5'-TgT 3'
			527			534	539	538		308		538
			5'-CCT 3'			5'-CgT 3'	5'-TCT 3'	5'-CCA 3'		5'-TCT 3'		5'-CCg 3'
			555									559
			5'-CCA 3'									5'-CTC 3'
			555									559
			5'-gCA 3'									5'-CgT 3'
												559
												5'-CgC 3'
												563
												5'-CgA 3'
Well No.	1	2	3	4	5	6	7	8	9	10	11	12



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	180	80	90	240	140	200	370	210	65	85	80	360
PCR product	225	115	135	380	180	390		240	240	240	160	445
		200	205	410	240				375	400	240	
		240			260				545		495	
		460										
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	1070	1070	800	800	800	800	800	1070
5'-primer(s) <sup>2</sup>	98	98	203	41	98	41	302	78	28	47	176	257
	5'-CTT 3'	5'-CAC 3'	5'-gAA 3'	5'-CTT 3'	5'-CTT 3'	5'-CTT 3'	5'-ggA 3'	5'-TCT 3'	5'-TCg 3'	5'-g.T 3'	5'-gCA 3'	5'-Cgg 3'
	414	219	362	355	180	98	302	106	261	78	261	341
	5'-CAg 3'	5'-gCA 3'	5'-ggT 3'	5'-CCg 3'	5'-TTT 3'	5'-CAC 3'	5'-ggA 3'	5'-CCA 3'	5'-AAC 3'	5'-TCT 3'	5'-AAC 3'	5'-ggC 3'
	423	238	363		203		317	2 <sup>nd</sup>	502	521	341	
	5'-gCT 3'	5'-AgA 3'	5'-ATA 3'		5'-gAA 3'		5'-gCg 3'	5'-CCT 3'	5'-CCC 3'	5'-ggT 3'	5'-ggA 3'	
		355	363		418			2 <sup>nd</sup>		527	355	
		5'-CCg 3'	5'-ATA 3'		5'-AgC 3'			5'-ggC 3'		5'-TgC 3'	5'-CCC 3'	
		489	363									362
		5'-gCA 3'	5'-ATA 3'									5'-gAg 3'
			369									362
			5'-TAC 3'									5'-gAg 3'
3'-primer(s) <sup>3</sup>	282	180	299	238	290	256	397	265	97	265	292	418
	5'-gAC 3'	5'-TCA 3'	5'-CCA 3'	5'-CCT 3'	5'-CAA 3'	5'-CCC 3'	5'-gAg 3'	5'-CCC 3'	5'-ggT 3'	5'-CCC 3'	5'-gTg 3'	5'-gTC 3'
	282	257	411	238	299	259		282	355	282	292	
	5'-gAC 3'	5'-gCA 3'	5'-TCA 3'	5'-CCT 3'	5'-TCT 3'	5'-gTT 3'		5'-gAC 3'	5'-gAC 3'	5'-gAC 3'	5'-gTT 3'	
	559	418	526	243	317	261		282	524	282	299	
	5'-CCC 3'	5'-gTC 3'	5'-CCA 3'	5'-TCA 3'	5'-ggA 3'	5'-gTg 3'		5'-gAC 3'	5'-CAT 3'	5'-gAC 3'	5'-TCT 3'	
	560	555		265	555	265		502		570	555	
	5'-ACC 3'	5'-CCA 3'		5'-CCC 3'	5'-CCA 3'	5'-CCC 3'		5'-CTT 3'		5'-CAC 3'	5'-CCA 3'	
				282		265		506				
				5'-gAC 3'		5'-CCC 3'		5'-TgT 3'				
				555		265						
				5'-CCA 3'		5'-CCA 3'						
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

<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: June 2022, Rev. No: 00

101.701-24/06 – including *Taq* polymerase  
 101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **0R8**

Lot-specific information

### HLA-B LOW PRIMER SPECIFICATION

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product	110	215	140	105	185	190	290	165	165	180	100	280
			235	140	235			225	190		195	
				260				285	390			
								330				
Length of int. pos. control <sup>1</sup>	<b>800</b>	1070	1070	<b>800</b>	<b>800</b>	<b>800</b>	1070	1070	1070	<b>800</b>	1070	1070
5'-primer(s) <sup>2</sup>	527	97	209	103	103	103	45	45	45	420	206	419
	5'-TgA 3'	5'-TCg 3'	5'-ggC 3'	5'-CCg 3'	5'-CCT 3'	5'-CCg 3'	5'-ggA 3'	5'-ggA 3'	5'-ggA 3'	5'-TTA 3'	5'-AgA 3'	5'-gTC 3'
	539		363	103	103	418		357	435		416	
	5'-gCg 3'		5'-AgC 3'	5'-CCg 3'	5'-CCT 3'	5'-Agg 3'		5'-Tgg 3'	5'-AAA 3'		5'-CCg 3'	
	540		363	361	363			412			420	
	5'-gAC 3'		5'-AgC 3'	5'-AgT 3'	5'-AAT 3'			5'-ATA 3'			5'-TTA 3'	
				363							420	
				5'-AgC 3'							5'-TTC 3'	
3'-primer(s) <sup>3</sup>	605	272	309	167	246	246	165	206	266	559	256	3 <sup>rd</sup> I
	5'-gCT 3'	5'-Tgg 3'	5'-gTg 3'	5'-ACA 3'	5'-TAT 3'	5'-TAT 3'	5'-Tgg 3'	5'-CCT 3'	5'-TCC 3'	5'-CTC 3'	5'-CCC 3'	5'-TAT 3'
		272	312	193	246	572		538	559		272	
		5'-TgA 3'	5'-gCC 3'	5'-CgT 3'	5'-TAT 3'	5'-gCC 3'		5'-gTC 3'	5'-CAg 3'		5'-Tgg 3'	
		272	559	193	559			603	583		572	
		5'-TgT 3'	5'-CAg 3'	5'-CgT 3'	5'-CTC 3'			5'-gTg 3'	5'-gTg 3'		5'-gCg 3'	
				463								
				5'-gCT 3'								
				583								
				5'-gTg 3'								

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product	195	105	115	80	100	140	55	210	170	110	395	160
		395	150		150		245					425
		435					390					
							415					
Length of int. pos. control <sup>1</sup>	1070	<b>800</b>	1070	1070	<b>800</b>	1070	1070	<b>800</b>	<b>800</b>	1070	1070	1070
5'-primer(s) <sup>2</sup>	142	45	161	167	349	206	45	142	407	246	44	44
	5'-TCT 3'	5'-ggA 3'	5'-Cgg 3'	5'-gCT 3'	5'-CTT 3'	5'-gAC 3'	5'-ggA 3'	5'-TCT 3'	5'-gg 3'	5'-gAA 3'	5'-ggC 3'	5'-ggC 3'
	419	540			355		368	368	409			357
	5'-gTC 3'	5'-gAC 3'			5'-TCA 3'		5'-gTT 3'	5'-gTC 3'	5'-ggC 3'			5'-Tgg 3'
							557		409			
							5'-ggA 3'		5'-ggC 3'			
									420			
									5'-TTA 3'			
3'-primer(s) <sup>3</sup>	301	272	234	204	412	301	259	311	544	317	272	302
	5'-gTC 3'	5'-TgC 3'	5'-TCT 3'	5'-TCT 3'	5'-gTT 3'	5'-gCT 3'	5'-gTT 3'	5'-ggg 3'	5'-ggT 3'	5'-ggA 3'	5'-TgC 3'	5'-ggC 3'
	301	272	272		463	302	259	311		320		302
	5'-gTC 3'	5'-TgT 3'	5'-TgA 3'		5'-gCT 3'	5'-ggC 3'	5'-gTT 3'	5'-ggg 3'		5'-AgT 3'		5'-ggT 3'
	570	309	272			311	266	538				477
	5'-CCg 3'	5'-ATC 3'	5'-Tgg 3'			5'-ggT 3'	5'-TCC 3'	5'-gTC 3'				5'-gCg 3'
	572	605				312	272					
	5'-gCg 3'	5'-gCT 3'				5'-AgT 3'	5'-Tgg 3'					
							292					
							5'-gTA 3'					
							572					
							5'-gCg 3'					



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	180	130	105	325	80	215	130	90	90	55	120	390
PCR product		290			115		280	410	175	100	210	430
		465			160					145		
					195					395		
					225					430		
					260							
Length of int. pos. control <sup>1</sup>	1070	1070	1070	<b>800</b>	1070	<b>800</b>	<b>800</b>	1070	1070	1070	<b>800</b>	1070
5'-primer(s) <sup>2</sup>	355	72	540	1 <sup>st</sup> I	355	141	209	41	209	48	357	49
	5'-TCA 3'	5'-gCT 3'	5'-gAC 3'	5'-CAg 3'	5'-TCA 3'	5'-ATT 3'	5'-ggC 3'	5'-CTg 3'	5'-ggC 3'	5'-gCC 3'	5'-Tgg 3'	5'-CAg 3'
	363	103			418	357	209	368	363	206		
	5'-Agg 3'	5'-CCT 3'			5'-Agg 3'	5'-Tgg 3'	5'-ggg 3'	5'-gTT 3'	5'-AgC 3'	5'-gAA 3'		
		209			499		355			259		
		5'-ggC 3'			5'-TCT 3'		5'-TCA 3'			5'-ggg 3'		
3'-primer(s) <sup>3</sup>	499	193	603	282	538	309	299	282	259	272	435	272
	5'-ggA 3'	5'-CgT 3'	5'-gTg 3'	5'-gCC 3'	5'-gTC 3'	5'-ATC 3'	5'-TCA 3'	5'-gCC 3'	5'-gTT 3'	5'-TgT 3'	5'-TCT 3'	5'-TgC 3'
		193	603		572	538	583	418	499	309	527	309
		5'-TgT 3'	5'-gTg 3'		5'-gCA 3'	5'-gTC 3'	5'-gTg 3'	5'-gTC 3'	5'-ggA 3'	5'-ATC 3'	5'-CCT 3'	5'-ATC 3'
		387	605		572		605					
		5'-TCg 3'	5'-gCT 3'		5'-gCg 3'		5'-gCT 3'					
					573							
					5'-AgT 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.	145	300	160	180	180	90	90	95	115	360	350	285
PCR product	210		370	210	205	150			150			
				240		410						
Length of int. pos. control <sup>1</sup>	1070	1070	1070	1070	1070	<b>800</b>	1070	1070	1070	1070	1070	1070
5'-primer(s) <sup>2</sup>	142	1 <sup>st</sup> I	15	141	97	15	207	206	165	1 <sup>st</sup> I	1 <sup>st</sup> I	355
	5'-TCA 3'	5'-CAg 3'	5'-gCA 3'	5'-ATT 3'	5'-TCg 3'	5'-gCA 3'	5'-ACC 3'	5'-gAC 3'	5'-ACC 3'	5'-CAg 3'	5'-CAg 3'	5'-TCA 3'
	206		418	362	420	209	208		463			363
	5'-gAA 3'		5'-Agg 3'	5'-gAC 3'	5'-TTA 3'	5'-ggC 3'	5'-CgT 3'		5'-TgA 3'			5'-AgC 3'
				362		209	209					
				5'-ggT 3'		5'-ggA 3'	5'-ggA 3'					
				420		449	369					
				5'-TTA 3'		5'-CCC 3'	5'-TAC 3'					
							369					
							5'-TAT 3'					
3'-primer(s) <sup>3</sup>	311	259	207	311	259	256	256	259	272	317	311	603
	5'-ggT 3'	5'-CTC 3'	5'-TCC 3'	5'-ggT 3'	5'-gTT 3'	5'-CCC 3'	5'-CCC 3'	5'-gTT 3'	5'-TgC 3'	5'-ggA 3'	5'-ggT 3'	5'-gTg 3'
		259	226	559	559	259	256		538	320		605
		5'-CTC 3'	5'-CAC 3'	5'-CgT 3'	5'-CAg 3'	5'-CTT 3'	5'-CTC 3'		5'-CCA 3'	5'-AgT 3'		5'-gCT 3'
		262	538			263	420					
		5'-TgC 3'	5'-gTC 3'			5'-gTT 3'	5'-gCT 3'					
						559						
						5'-CgT 3'						
Well No.	61	62	63	64	65	66	67	68	69	70	71	72



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

**Lot No.: OR8**

**Lot-specific information**

<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 25 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: June 2022, Rev. No: 00

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

### DR LOW PRIMER SPECIFICATION

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	210	200	200	210	75	75	85	100	170	85	85	70
PCR product	235 260		230		205	210	210	175	210 235	120 215	100 135	175
Length of int.	<b>515</b>	430	430	430	<b>515</b>	430	430	430	430	<b>515</b>	430	430
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	13(124) 5'-A.T 3'	14(129) 5'-gAA 3'	12(121) 5'-CTg 3'	11(119) 5'-gCT 3'	13(125) 5'-gTC 3'	12(122) 5'-TAC 3'	13(125) 5'-gTC 3'	13(124) 5'-AAC 3'	11(118) 5'-AgA 3'	16(133) 5'-gTT 3'	26(165) 5'-TAT 3'	26(164) 5'-gTA 3'
	14(129) 5'-gAA 3'		13(126) 5'-Agg 3'	13(126) 5'-Agg 3'	47(227) 5'-gTT 3'	13(125) 5'-gTC 3'		13(125) 5'-ATA 3'	14(127) 5'-ATA 3'	16(133) 5'-gTT 3'	37(196) 5'-AgA 3'	31(178) 5'-gCg 3'
			13(126) 5'-AAg 3'	13(126) 5'-AAg 3'		16(133) 5'-gTT 3'		13(125) 5'-gTC 3'	14(127) 5'-ATA 3'	16(133) 5'-gCT 3'	58(261) 5'-gAg 3'	
			13(126) 5'-AgA 3'						14(127) 5'-gTA 3'	60(265) 5'-AgT 3'		
									16(133) 5'-gTT 3'			
									29(174) 5'-AgA 3'			
									31(178) 5'-gCg 3'			
3'-primer(s) <sup>3</sup>	67(286) 5'-gAg 3'	67(286) 5'-gAT 3'	67(286) 5'-gAT 3'	67(286) 5'-gAA 3'	73(305) 5'-ggC 3'	26(164) 5'-ggT 3'	28(171) 5'-CTC 3'	33(184) 5'-gTg 3'	71(298) 5'-CTC 3'	74(307) 5'-CAg 3'	57(257) 5'-CgA 3'	38(200) 5'-gCg 3'
	67(286) 5'-gAg 3'	67(286) 5'-gAA 3'	67(286) 5'-gAT 3'	67(286) 5'-gAg 3'	73(305) 5'-ggC 3'	67(286) 5'-gAT 3'	70(295) 5'-CTg 3'	58(260) 5'-Cgg 3'	73(305) 5'-ggC 3'	86(344) 5'-CAC 3'	73(305) 5'-ggC 3'	72(303) 5'-gCA 3'
	67(286) 5'-gAT 3'	67(286) 5'-gAA 3'	67(286) 5'-gAT 3'	67(286) 5'-gAg 3'	73(305) 5'-ggC 3'	71(299) 5'-gCT 3'			77(317) 5'-AAT 3'		78(319) 5'-CAC 3'	74(307) 5'-CgC 3'
	70(297) 5'-CTg 3'		70(295) 5'-CTg 3'	70(296) 5'-TgT 3'	73(305) 5'-ggC 3'				78(319) 5'-CAC 3'			
	71(299) 5'-gCg 3'		70(295) 5'-Tg 3'	72(302) 5'-Cgg 3'	73(306) 5'-Tgg 3'				78(319) 5'-CAA 3'			
	73(305) 5'-ggC 3'		70(296) 5'-TCC 3'		74(308) 5'-CCC 3'				78(319) 5'-CgC 3'			
	77(317) 5'-AgT 3'		71(299) 5'-gCg 3'		75(310) 5'-CAA 3'							
	86(344) 5'-CCA 3'		71(299) 5'-gCT 3'		77(317) 5'-AgT 3'							
			72(301) 5'-Cg 3'									
			73(305) 5'-ggC 3'									
			77(317) 5'-AgT 3'									
Well No.	73	74	75	76	77	78	79	80	81	82	83	84



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **0R8**

Lot-specific information

Well No.	85	86	87	88	89	90	91	92	93	94	95
Length of spec.	100	90	220	195	175	75	110	110	80	130	180
PCR product	175	110		225	240	100	145	150	110	210	215
						140	170	180	160		
						185		220	190		
						240			240		
Length of int.	430	430	430	430	430	430	430	430	515	430	430
pos. control <sup>1</sup>											
5'-primer(s) <sup>2</sup>	13(125) 5'-gTC 3'	13(124) 5'-Cgg 3'	10(116) 5'-gCT 3'	10(116) 5'-gCT 3'	13(125) 5'-gTC 3'	5(101) 5'-CAA 3'	26(164) 5'-gTA 3'	13(125) 5'-gTC 3'	10(116) 5'-gCT 3'	28(170) 5'-gAT 3'	9(112) 5'-TgC 3'
	16(133) 5'-gTC 3'	16(133) 5'-gTT 3'	12(122) 5'-TAT 3'	12(122) 5'-TAT 3'	13(125) 5'-gTg 3'	37(197) 5'-gTT 3'	34(189) 5'-CAg 3'	34(189) 5'-CAg 3'	10(116) 5'-gCT 3'	28(170) 5'-gAg 3'	13(125) 5'-gTA 3'
	38(200) 5'-CgT 3'		13(125) 5'-gTC 3'	12(123) 5'-ACA 3'	114(429) 5'-CTg 3'	37(197) 5'-gTA 3'	34(189) 5'-CAg 3'	37(196) 5'-AgC 3'	11(119) 5'-gCT 3'	105(401) 5'-AAA 3'	
				13(125) 5'-gTC 3'			34(189) 5'-CCg 3'		38(199) 5'-TCC 3'		
				13(125) 5'-gTg 3'							
				16(133) 5'-gTC 3'							
				16(133) 5'-gTT 3'							
3'-primer(s) <sup>3</sup>	58(260) 5'-CCT 3'	28(171) 5'-CTC 3'	70(295) 5'-gTC 3'	67(286) 5'-gAA 3'	58(260) 5'-Cgg 3'	48(230) 5'-CCT 3'	57(257) 5'-CAg 3'	57(257) 5'-CAg 3'	51(239) 5'-CCC 3'	81(328) 5'-gTA 3'	57(256) 5'-gTC 3'
	58(260) 5'-CCT 3'	30(175) 5'-gTg 3'	71(299) 5'-gCT 3'	71(298) 5'-CTC 3'	58(260) 5'-CAg 3'	57(257) 5'-CAg 3'	70(295) 5'-CTg 3'	60(265) 5'-gTg 3'	60(266) 5'-Agg 3'	87(346) 5'-CTC 3'	57(258) 5'-gCg 3'
	58(260) 5'-CCT 3'	38(199) 5'-CAg 3'	71(299) 5'-ACT 3'	71(298) 5'-CgC 3'	181(630) 5'-CTT 3'	71(298) 5'-CgC 3'	70(296) 5'-TCC 3'	70(296) 5'-TCC 3'	77(317) 5'-AAT 3'	87(346) 5'-CTT 3'	57(258) 5'-gCT 3'
	58(261) 5'-TCT 3'		74(307) 5'-CgT 3'					74(307) 5'-CAg 3'		135(490) 5'-gCT 3'	58(260) 5'-CCT 3'
			78(319) 5'-CAC 3'								70(296) 5'-TgT 3'
Well No.	85	86	87	88	89	90	91	92	93	94	95

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 73 contains the longer, 515 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: June 2022, Rev. No: 00

101.701-24/06 – including *Taq* polymerase  
 101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:															
				202135301	202135302	202135303	202135304	202135305	202135306	202135307	202135308	202135309	202136910	202135311	202135312	202135313	202135314	202135315	202135316
	IHWC cell line <sup>1</sup>	A*	A*																
1	9001 SA	*24:02		-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	
2	9280 LK707	*02:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011 E4181324	*01:01		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	
5	9009 KAS011	*01:01		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
6	9353 SM	*02:01	*26:03	-	+	-	-	-	-	-	+	-	-	+	-	+	-	-	
7	9020 QBL	*26:01		-	-	-	-	-	-	-	+	-	+	-	-	+	-	-	
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	
9	9026 YAR	*26:01		-	-	-	-	-	-	-	+	-	+	-	-	+	-	-	
10	9107 LKT3	*24:02		-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	
12	9052 DBB	*02:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004 JESTHOM	*02:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	
15	9075 DKB	*24:02		-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	
17	9282 CTM3953540	*03:01	*80:01	-	-	+	-	-	+	-	-	-	-	-	+	-	-	-	
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038 BM16	*02:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059 SLE005	*02:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064 AMALA	*02:17		-	+	-	-	-	-	W	-	-	-	-	-	-	-	-	
22	9056 KOSE	*02:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124 IHL	*02:01	*34:01	-	+	-	-	-	-	-	+	-	-	+	+	-	-	-	
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285 WT49	*02:05		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191 CH1007	*24:10	*29:01	-	-	-	-	+	-	+	-	-	-	-	-	+	-	-	
28	9320 BEL5GB	*02:01	*29:02	-	+	-	-	-	-	-	-	-	-	-	-	+	-	-	
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	
32	9297 HAG	*02:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
36	9024 KT17	*02:06	*11:01	-	+	-	+	-	-	-	-	-	+	-	-	-	-	-	
37	9065 HHKB	*03:01		-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	
38	9099 LZL	*02:17		-	+	-	-	-	W	-	-	-	-	-	-	-	-	-	
39	9315 CML	*01:01	*03:01	+	-	+	+	-	-	-	-	-	-	-	+	-	-	-	
40	9134 WHONP199	*02:07	*30:01	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	
41	9055 H0301	*03:01		-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	
42	9066 TAB089	*02:07		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076 T7526	*02:06	*02:07	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057 TEM	*66:01		-	-	-	-	-	-	-	+	-	-	+	-	+	-	-	
45	9239 SHJO	*23:01	*24:02	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	
46	9013 SCHU	*03:01		-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	
47	9045 TUBO	*02:16	*03:01	-	+	+	-	-	-	-	-	-	-	-	+	-	-	-	
48	9303 TER-ND	*02:01	*11:01	-	+	-	+	-	-	-	-	-	-	+	-	-	-	-	



0197



101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

CELL LINE VALIDATION SHEET												
HLA-A low resolution primer set <sup>2</sup>												
				Well								
				17	18	19	20	21	22	23	24	
				Prod. No.:	202135317	202135318	202135319	202135320	202135321	202136922	202135323	202135324
	IHCW cell line <sup>1</sup>			A*	A*							
1	9001	SA		*24:02		-	-	-	-	-	-	-
2	9280	LK707		*02:01		-	-	-	-	-	-	-
3	9011	E4181324		*01:01		-	-	-	-	-	-	-
4	9275	GU373		*30:01		-	-	-	-	-	-	-
5	9009	KAS011		*01:01		-	-	-	-	-	-	-
6	9353	SM		*02:01	*26:03	-	-	-	-	-	+	-
7	9020	QBL		*26:01		-	-	-	-	-	-	-
8	9025	DEU		*31:01		-	-	-	-	-	-	-
9	9026	YAR		*26:01		-	-	-	-	-	-	-
10	9107	LKT3		*24:02		-	-	-	-	-	-	-
11	9051	PITOUT		*29:02		-	-	-	-	-	-	-
12	9052	DBB		*02:01		-	-	-	-	-	-	-
13	9004	JESTHOM		*02:01		-	-	-	-	-	-	-
14	9071	OLGA		*31:01		-	-	-	-	-	-	-
15	9075	DKB		*24:02		-	-	-	-	-	-	-
16	9037	SWEIG007		*29:02		-	-	-	-	-	-	-
17	9282	CTM3953540		*03:01	*80:01	-	-	-	-	-	+	-
18	9257	32367		*33:03	*74:01	-	+	+	-	-	-	-
19	9038	BM16		*02:01		-	-	-	-	-	-	-
20	9059	SLE005		*02:01		-	-	-	-	-	-	-
21	9064	AMALA		*02:17		-	-	-	-	-	-	-
22	9056	KOSE		*02:01		-	-	-	-	-	-	-
23	9124	IHL		*02:01	*34:01	-	-	-	-	-	-	-
24	9035	JBUSH		*32:01		+	-	-	-	-	-	-
25	9049	IBW9		*33:01		-	+	-	-	-	-	-
26	9285	WT49		*02:05		-	-	-	-	-	-	-
27	9191	CH1007		*24:10	*29:01	-	-	-	-	-	-	-
28	9320	BEL5GB		*02:01	*29:02	-	-	-	-	-	-	-
29	9050	MOU		*29:02		-	-	-	-	-	-	-
30	9021	RSH		*30:01	*68:02	-	-	-	+	-	-	-
31	9019	DUCAF		*30:02		-	-	-	-	-	-	-
32	9297	HAG		*02:01		-	-	-	-	-	-	-
33	9098	MT14B		*31:01		-	-	-	-	-	-	-
34	9104	DHIF		*31:01		-	-	-	-	-	-	-
35	9302	SSTO		*32:01		+	-	-	-	-	-	-
36	9024	KT17		*02:06	*11:01	-	-	-	-	-	-	-
37	9065	HHKB		*03:01		-	-	-	-	-	-	-
38	9099	LZL		*02:17		-	-	-	-	-	-	-
39	9315	CML		*01:01	*03:01	-	-	-	-	-	-	-
40	9134	WHONP199		*02:07	*30:01	-	-	-	-	-	-	-
41	9055	H0301		*03:01		-	-	-	-	-	-	-
42	9066	TAB089		*02:07		-	-	-	-	-	-	-
43	9076	T7526		*02:06	*02:07	-	-	-	-	-	-	-
44	9057	TEM		*66:01		-	-	-	-	-	-	-
45	9239	SHJO		*23:01	*24:02	-	-	-	-	-	-	-
46	9013	SCHU		*03:01		-	-	-	-	-	-	-
47	9045	TUBO		*02:16	*03:01	-	-	-	-	-	-	-
48	9303	TER-ND		*02:01	*11:01	-	-	-	-	-	-	-



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **0R8**

**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.

One or more 5'- and 3'-primers in primer solutions 4, 5, 7, 8, 12, 14 to 17 and 20 to 23 were tested by separately adding one or more 3'-primers, and one or more 5'-primers respectively.

One or more 5'-primers in primer solutions 1, 9, 13 and 24 were tested by separately adding one or two 3'-primers. One or more 3'-primers in primer solutions 3, 10 and 18 were tested by separately adding one or two 5'-primers. In primer solutions 2, 3, 9, 11, 12, 15, 20 and 22 one or two 5'-primers were not possible to be tested, and in primer solutions 3, 6, 8 to 10, 12, 13, 16 and 18 one or two 3'-primers were not possible to be tested.



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B low resolution SSP kit <sup>2</sup>																				
				Well																
				25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
				Prod. No.:	202241501	202240902	202240903	202240904	202240905	202240906	202240907	202240908	202240909	202240910	202240911	202241512	202240913	202240914	202240915	202240916
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	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-B low resolution SSP kit <sup>2</sup>																			
			Prod. No.:	Well															
				41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
				202240917	202240918	202240919	202240920	202240921	202240922	202240923	202240924	202240925	202241526	202240927	202240928	202240929	202241530	202240931	202240932
	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	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	+	+	-	-	-	-	-	-	-	-	-	-	+	-	-	-



0197

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B low resolution SSP kit <sup>2</sup>																				
				Well																
				57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	
				Prod. No.:	202240933	202240934	202240935	202240936	202240937	202240938	202240939	202240940	202240941	202240942	202241543	202240944	202240945	202240946	202240947	202240948
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	-	-	-	-	-	+	-	-	-	-	-	+	-	+	+	-



0197

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

**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.

One or more 5'-primers and 3'-primers in primer solutions 27, 30, 35, 38, 43, 53, 55 and 64 to 66 were tested by separately adding one or two additional 3'-primers, and one or two additional 5'-primers respectively.

One or more 5'-primers in primer solutions 25, 45, 49, 50, 67 and 72 were tested by separately adding one or two additional 3'-primers. One or more 3'-primers in primer solutions 26, 28, 32, 37, 39, 42, 58 and 60 were tested by separately adding one, two or three additional 5'-primers.

In primer mixes 35, 41, 45, 55, 66 and 67 one or two 5'-primers were not possible to be tested, and in primer mixes 27, 46, 51, 53, 62, 63, 66 and 70 one or two 3'-primers were not possible to be tested.



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

CELL LINE VALIDATION SHEET																				
DR low resolution primer set <sup>2</sup>																				
				Well																
				73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	
				Prod. No.:	202128501	202128502	202128503	202128504	202128505	202128506	202128507	202128508	202135509	202128510	202241011	202134312	202128513	202128514	202128515	202128516
IHCW cell line <sup>1</sup>		DRB1																		
1	9001 SA	*01:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280 LK707	*15:02	*04:05	-	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	
3	9011 E4181324	*15:02		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275 GU373	*03:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	
5	9009 KAS011	*16:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353 SM	*04:07	*08:03	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	
7	9020 QBL	*03:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
9	9026 YAR	*04:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
10	9107 LKT3	*04:05		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
11	9051 PITOUT	*07:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
12	9052 DBB	*07:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
13	9004 JESTHOM	*01:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071 OLGA	*08:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	+	
15	9075 DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	
16	9037 SWEIG007	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	+	
17	9282 CTM3953540	*03:01	*13:01	-	-	-	-	+	+	-	-	-	-	-	-	-	-	+	+	
18	9257 32367	*09:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	+	+	
19	9038 BM16	*12:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
20	9059 SLE005	*13:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	+	
21	9064 AMALA	*14:02		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
22	9056 KOSE	*13:02	*14:54	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	+	
23	9124 IHL	*08:03	*14:14	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
24	9035 JBUSH	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	+	
25	9049 IBW9	*07:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
26	9285 WT49	*03:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	
27	9191 CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	
28	9320 BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	
29	9050 MOU	*07:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
30	9021 RSH	*03:02		-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	
31	9019 DUCAF	*03:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	
32	9297 HAG	*13:03		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	
33	9098 MT14B	*04:04		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
34	9104 DHIF	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	+	
35	9302 SSTO	*04:03		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
36	9024 KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
37	9065 HHKB	*13:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	+	
38	9099 LZL	*14:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
39	9315 CML	*03:01	*04:01	-	-	-	-	+	+	-	+	-	-	-	-	-	-	-	-	
40	9134 WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	
41	9055 H0301	*13:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	+	
42	9066 TAB089	*08:03		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
43	9076 T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	
44	9057 TEM	*14:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239 SHJO	*07:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
46	9013 SCHU	*15:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045 TUBO	*11:04	*12:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	
48	9303 TER-ND	*01:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



0197

101.701-24/06 – including *Taq* polymerase  
 101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **OR8**

Lot-specific information

CELL LINE VALIDATION SHEET											
DR low resolution primer set <sup>2</sup>											
				Well <sup>3</sup>							
				89	90	91	92	93	94	95	
				Prod. No.:	202128517	202128518	202128519	202128520	202128529	202128530	202128531
IHCW cell line <sup>1</sup>		DRB1									
1	9001 SA	*01:01		-	-	-	-	-	-	-	-
2	9280 LK707	*15:02	*04:05	-	-	-	-	-	-	+	+
3	9011 E4181324	*15:02		-	-	-	-	-	-	-	+
4	9275 GU373	*03:01		+	-	-	-	+	-	-	-
5	9009 KAS011	*16:01		-	-	-	-	-	-	-	+
6	9353 SM	*04:07	*08:03	-	-	-	-	-	-	+	-
7	9020 QBL	*03:01		+	-	-	-	+	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	+	-
9	9026 YAR	*04:02		-	-	-	-	-	-	+	-
10	9107 LKT3	*04:05		-	-	-	-	-	-	+	-
11	9051 PITOUT	*07:01		-	-	-	-	-	-	+	-
12	9052 DBB	*07:01		-	+	-	-	-	-	+	-
13	9004 JESTHOM	*01:01		-	-	-	-	-	-	-	-
14	9071 OLGA	*08:02		-	-	-	-	-	-	-	-
15	9075 DKB	*09:01		-	-	+	-	-	-	+	-
16	9037 SWEIG007	*11:01		-	-	-	-	-	-	+	-
17	9282 CTM3953540	*03:01	*13:01	+	-	-	-	+	-	-	-
18	9257 32367	*09:01	*11:01	-	-	+	-	+	+	-	-
19	9038 BM16	*12:01		-	-	-	-	+	-	-	-
20	9059 SLE005	*13:02		+	-	-	-	+	-	-	-
21	9064 AMALA	*14:02		+	-	+	-	+	-	-	-
22	9056 KOSE	*13:02	*14:54	+	+	+	+	+	-	-	-
23	9124 IHL	*08:03	*14:14	+	-	+	+	+	-	-	-
24	9035 JBUSH	*11:01		-	-	-	-	-	+	-	-
25	9049 IBW9	*07:01		-	-	-	-	-	-	+	-
26	9285 WT49	*03:01		+	-	-	-	+	-	-	-
27	9191 CH1007	*04:05	*10:01	-	-	-	-	-	-	+	-
28	9320 BEL5GB	*04:16	*07:01	-	-	-	-	-	-	+	-
29	9050 MOU	*07:01		-	-	-	-	-	-	+	-
30	9021 RSH	*03:02		+	-	-	-	+	-	-	-
31	9019 DUCAF	*03:01		+	-	-	-	+	-	-	-
32	9297 HAG	*13:03		+	-	-	-	+	-	-	-
33	9098 MT14B	*04:04		-	-	-	-	-	-	+	-
34	9104 DHIF	*11:01		-	-	-	-	-	+	-	-
35	9302 SSTO	*04:03		-	-	-	-	-	-	+	-
36	9024 KT17	*04:03	*04:06	-	-	-	-	-	-	+	-
37	9065 HHKB	*13:01		+	-	-	-	+	-	-	-
38	9099 LZL	*14:02		+	-	+	-	+	-	-	-
39	9315 CML	*03:01	*04:01	+	-	-	-	+	+	-	-
40	9134 WHONP199	*07:01	*09:01	-	-	+	-	-	-	+	-
41	9055 H0301	*13:02		+	-	-	-	+	-	-	-
42	9066 TAB089	*08:03		-	-	-	-	-	-	-	-
43	9076 T7526	*09:01		-	-	+	-	-	-	+	-
44	9057 TEM	*14:01		+	+	+	+	+	-	-	-
45	9239 SHJO	*07:01		-	-	-	-	-	-	+	-
46	9013 SCHU	*15:01		-	-	-	-	-	-	-	+
47	9045 TUBO	*11:04	*12:01	-	-	-	-	+	-	-	-
48	9303 TER-ND	*01:03		-	-	-	-	-	-	-	-



0197

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



101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **0R8**

**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.

<sup>3</sup>The DRB4\*01:03:01:02N allele is amplified by primer mix 90 in the 9052 (DBB) cell line. One or more 5'- and 3'-primers in primer solutions 81, 83, 87 and 90 were tested by separately adding one 3'-primer, and one or three 5'-primers respectively.

One or more 5'-primers in primer solutions 76, 78, 84 and 88 were tested by separately adding one 3'-primer. One or more 3'-primers in primer solutions 73 to 75, 77 and 92 were tested by separately adding one or more 5'-primers.

One or more 5'-primers in primer solutions 73, 75, 76, 80 to 82, 85 to 89, 91, 92 and 94 were not possible to be tested. One or more 3'-primers in primer solutions 73 to 78, 81, 85, 87, 94 and 95 were not possible to be tested.



**0197**

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

101.701-24/06 – including *Taq* polymerase  
101.701-24u/06u – without *Taq* polymerase

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

Lot No.: **0R8**

Lot-specific information

**ADDRESSES:**

**Manufacturer:**

**CareDx AB**, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Tel: +46-8-508 939 00

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

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

**Web page:** [www.caredx.com](http://www.caredx.com)

**CareDx Lab Solutions Inc.**, 901 S. Bolmar St., Suite R, West Chester, PA 19382

**Tel:** 1-877-653-78171

**Fax:** 610-344-7989

**E-mail:** [orders-us@caredx.com](mailto:orders-us@caredx.com)

**Web page:** [www.caredx.com](http://www.caredx.com)

For information on CareDx distributors worldwide, contact **CareDx AB**.



**0197**

For *In Vitro* Diagnostic Use

MA123 v02 SSP PI Template

Date: June 2022, Rev. No: 00