

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

Visit www.caredx.com for
 “Instructions for Use” (IFU)

Lot No.: **1R3**

Lot-specific Information
Olerup SSP[®] HLA-A*29

| | |
|---|---|
| Product number: | 101.428-12 – including <i>Taq</i> polymerase 101.428-12u – without <i>Taq</i> polymerase |
| Lot number: | 1R3 |
| Expiry date: | 2026-05-01 |
| Number of tests: | 12 |
| Number of wells per test: | 30+1 |
| Storage - pre-aliquoted primers: | dark, between -15°C and -25°C |
| - PCR Master Mix: | between -15°C and -25°C |
| - Adhesive PCR seals | RT |

This Product Description is only valid for Lot No. 1R3.

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

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®]
 HLA-A*29 LOT (5L0)**

- The product documentation has been updated for new alleles of IMGT 3.47.0.
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles.

The HLA-A*29 primer set, specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP[®] HLA-A*29* lot was made (**Lot No. 5L0**).

The HLA-A*29 primer set is unchanged compared to the previous *Olerup SSP[®] HLA-A*29* (**Lot No. 5L0**).

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



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For *In Vitro* Diagnostic Use
 MA123 v02 SSP PI Template
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Lot-specific Information

Well **31** contains Negative Control primer pairs, that will amplify the majority of the *Olerup* SSP[®] HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

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

| Length of PCR product | 105 | 200 | 105 | 80 | 75 | 80 | 85 |
|------------------------------|----------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 5'-primer¹ | 164 | 340 | 440 | 45 | 45 | 43 | 36 |
| | 5'-CAC ^{3'} | 5'-Agg ^{3'} | 5'-TTA ^{3'} | 5'-Tgg ^{3'} | 5'-Tgg ^{3'} | 5'-Tgg ^{3'} | 5'-TAC ^{3'} |
| | | | | | | | 36 |
| | | | | | | | 5'-TAT ^{3'} |
| 3'-primer² | 231 | 2nd I | 507 | 59 | 58 | 57 | 47 |
| | 5'-TgC ^{3'} | 5'-AAA ^{3'} | 5'-TTg ^{3'} | 5'-CTC ^{3'} | 5'-ggC ^{3'} | 5'-CTC ^{3'} | 5'-ACA ^{3'} |
| | | | | | | | 48 |
| | | | | | | | 5'-gCA ^{3'} |
| | | | | | | | 48 |
| | | | | | | | 5'-gCC ^{3'} |
| | | | | | | | 52 |
| | | | | | | | 5'-TgT ^{3'} |
| A* | + | + | + | | | | |
| B* | + | + | + | | | | |
| C* | + | + | + | | | | |
| DRB1 | | | | + | + | | |
| DRB3 | | | | + | + | | |
| DRB5 | | | | + | | | |
| DQB1 | | | | | + | | |
| DPB1 | | | | | | + | |
| DQA1 | | | | | | | + |

¹The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.

²The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon or the 2nd 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.



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Lot-specific Information
PRODUCT DESCRIPTION

HLA-A*29 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*29:01 to A*29:167 alleles.

PLATE LAYOUT

Each test consists of 31 PCR reactions in a 32 well cut PCR plate. Well 32 is empty.

| | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | NC | empty |

The 32 well cut PCR plate is marked with ‘HLA-A*29’ in silver/gray ink.

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

Wells 1 to 30 – HLA-A*29 high resolution primers.

Well 31 – Negative Control (NC).

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded. The PCR plates are covered with a PCR-compatible foil.

Please note: When removing each 32 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

Due to the sharing of sequence motifs between HLA-A alleles, non-HLA-A*29 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A*29 alleles, i.e. **A*29:01 to A*29:167 alleles**, recognized by the HLA Nomenclature Committee in January 2022^{1,2} will be amplified by the primers in the HLA-A*29 subtyping kit.

The HLA-A*29 kit enables separation of the confirmed HLA-A*29 alleles as listed in the IMGT/HLA database 3.29.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-A*29 alleles is listed below.

The HLA-A*29 kit also enables identification of many null and alternatively expressed alleles.



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Lot-specific Information

The following HLA-A*29 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

| Alleles | Primer mix |
|------------------|------------|
| A*29:07, 29:46 | 8 |
| A*29:08N, 29:139 | 9 |
| A*29:11, 29:92 | 13 |
| A*29:17, 29:144 | 10 |
| A*29:20, 29:82 | 29 |

¹HLA-A alleles listed on the IMGT/HLA web page 2022-January-13, release 3.47.0, www.ebi.ac.uk/imgt/hla.

²Alleles 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>.



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Lot-specific Information

ALLELE CONFIRMATION STATUS

| Allele | Status ¹ | Allele | Status ¹ | Allele | Status ¹ | Allele | Status ¹ |
|----------------------|---------------------|-------------------|---------------------|----------------|---------------------|-----------------|---------------------|
| A*29:01:01:01 | Confirmed | A*29:08N | Unconfirmed | A*29:47 | Unconfirmed | A*29:87 | Confirmed |
| A*29:01:01:02N | Unconfirmed | A*29:09 | Confirmed | A*29:48 | Unconfirmed | A*29:88 | Unconfirmed |
| A*29:01:02 | Unconfirmed | A*29:10:01 | Confirmed | A*29:49 | Unconfirmed | A*29:89 | Unconfirmed |
| A*29:01:03 | Unconfirmed | A*29:10:02 | Confirmed | A*29:50 | Unconfirmed | A*29:90 | Confirmed |
| A*29:01:04 | Unconfirmed | A*29:11 | Confirmed | A*29:51 | Confirmed | A*29:91 | Unconfirmed |
| A*29:01:05 | Unconfirmed | A*29:12 | Confirmed | A*29:52 | Unconfirmed | A*29:92 | Unconfirmed |
| A*29:01:06 | Unconfirmed | A*29:13 | Unconfirmed | A*29:53 | Confirmed | A*29:93 | Unconfirmed |
| A*29:01:07 | Unconfirmed | A*29:14 | Unconfirmed | A*29:54 | Confirmed | A*29:94 | Unconfirmed |
| A*29:01:08 | Unconfirmed | A*29:15 | Unconfirmed | A*29:55 | Confirmed | A*29:95 | Unconfirmed |
| A*29:01:09 | Unconfirmed | A*29:16 | Unconfirmed | A*29:56 | Unconfirmed | A*29:96 | Unconfirmed |
| A*29:02:01:01 | Confirmed | A*29:17 | Unconfirmed | A*29:57 | Unconfirmed | A*29:97 | Unconfirmed |
| A*29:02:01:02 | Confirmed | A*29:18 | Unconfirmed | A*29:58 | Unconfirmed | A*29:98 | Unconfirmed |
| A*29:02:01:03 | Confirmed | A*29:19 | Unconfirmed | A*29:59 | Unconfirmed | A*29:99 | Unconfirmed |
| A*29:02:01:04 | Confirmed | A*29:20 | Confirmed | A*29:60 | Unconfirmed | A*29:100 | Unconfirmed |
| A*29:02:02 | Confirmed | A*29:21 | Confirmed | A*29:61 | Unconfirmed | A*29:101 | Unconfirmed |
| A*29:02:03 | Confirmed | A*29:22 | Confirmed | A*29:62 | Unconfirmed | A*29:102 | Unconfirmed |
| A*29:02:04 | Confirmed | A*29:23 | Unconfirmed | A*29:63 | Unconfirmed | A*29:103 | Confirmed |
| A*29:02:05 | Unconfirmed | A*29:24 | Unconfirmed | A*29:64 | Unconfirmed | | |
| A*29:02:06 | Confirmed | A*29:25 | Unconfirmed | A*29:65 | Unconfirmed | | |
| A*29:02:07 | Unconfirmed | A*29:26 | Confirmed | A*29:66 | Unconfirmed | | |
| A*29:02:08 | Unconfirmed | A*29:27 | Unconfirmed | A*29:67 | Unconfirmed | | |
| A*29:02:09 | Confirmed | A*29:28 | Unconfirmed | A*29:68 | Unconfirmed | | |
| A*29:02:10 | Unconfirmed | A*29:29 | Unconfirmed | A*29:69 | Confirmed | | |
| A*29:02:11 | Unconfirmed | A*29:30 | Unconfirmed | A*29:70 | Unconfirmed | | |
| A*29:02:12 | Unconfirmed | A*29:31 | Unconfirmed | A*29:71 | Confirmed | | |
| A*29:02:13 | Unconfirmed | A*29:32 | Confirmed | A*29:72 | Unconfirmed | | |
| A*29:02:14 | Confirmed | A*29:33 | Unconfirmed | A*29:73 | Unconfirmed | | |
| A*29:02:15 | Unconfirmed | A*29:34 | Confirmed | A*29:74 | Unconfirmed | | |
| A*29:02:16 | Confirmed | A*29:35 | Confirmed | A*29:75 | Unconfirmed | | |
| A*29:02:17:01 | Unconfirmed | A*29:36 | Confirmed | A*29:76 | Unconfirmed | | |
| A*29:02:17:02 | Unconfirmed | A*29:37 | Unconfirmed | A*29:77 | Confirmed | | |
| A*29:02:18 | Unconfirmed | A*29:38 | Unconfirmed | A*29:78N | Unconfirmed | | |
| A*29:02:19 | Unconfirmed | A*29:39 | Unconfirmed | A*29:79 | Unconfirmed | | |
| A*29:02:20 | Confirmed | A*29:40 | Confirmed | A*29:80 | Unconfirmed | | |
| A*29:02:21 | Unconfirmed | A*29:41 | Unconfirmed | A*29:81 | Confirmed | | |
| A*29:03 | Confirmed | A*29:42 | Unconfirmed | A*29:82 | Confirmed | | |
| A*29:04 | Unconfirmed | A*29:43 | Confirmed | A*29:83 | Unconfirmed | | |
| A*29:05 | Unconfirmed | A*29:44 | Confirmed | A*29:84 | Unconfirmed | | |
| A*29:06 | Unconfirmed | A*29:45 | Unconfirmed | A*29:85 | Unconfirmed | | |
| A*29:07 | Unconfirmed | A*29:46 | Unconfirmed | A*29:86 | Unconfirmed | | |

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2017-August-10, release 3.29.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-A*29 homo- and heterozygotes is available upon request.



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Lot-specific Information
SPECIFICITY TABLE

HLA-A*29 SSP subtyping

Specificities and sizes of the PCR products of the 30+1 primer mixes used for HLA-A*29 SSP subtyping

| Primer Mix | Size of spec. PCR product ¹ | Size of control band ² | Amplified HLA-A*29 alleles ³ | Other amplified HLA-A alleles |
|----------------|--|-----------------------------------|--|--|
| 1 | 480 bp | 800 bp | *29:01:01:01-29:01:06, 29:01:08-29:01:12, 29:01:14- 29:01:15, 29:12, 29:15-29:17, 29:20, 29:24, 29:28, 29:33, 29:48-29:49, 29:55-29:58, 29:60-29:62, 29:67, 29:71, 29:76-29:77, 29:79, 29:81- 29:83, 29:98-29:99, 29:101:01-29:101:02, 29:107, 29:110, 29:113, 29:115, 29:117-29:118, 29:123- 29:125, 29:144, 29:147, 29:150, 29:155, 29:157, 29:162, 29:164, 29:166 | |
| 2 | 130 bp | 1070 bp | *29:01:01:02N | |
| 3 | 440 bp | 800 bp | *29:02:01:01-29:02:03, 29:02:05-29:11, 29:13-29:14, 29:19, 29:21-29:23, 29:26- 29:27, 29:29-29:32, 29:34- 29:47, 29:50-29:54, 29:59, 29:63, 29:65-29:66, 29:68- 29:70, 29:72-29:75, 29:78N, 29:80, 29:84-29:97, 29:100, 29:102-29:106, 29:108, 29:111-29:112N, 29:114, 29:116, 29:119-29:122, 29:126Q-29:135, 29:137- 29:143, 29:145-29:146, 29:148-29:149, 29:151- 29:154, 29:156, 29:158- 29:161, 29:163, 29:165, 29:167 | *01:01:126, 01:69:03, 11:01:42, 30:01:11, 30:152, 31:04:02, 68:130:02, B*40:01:76 |
| 4 ⁴ | 110 bp 165 bp | 800 bp | *29:35, 29:51, 29:69, 29:73 *29:03, 29:33 | *02:24:02, 02:507, 32:109 *01:01:114, 23:03:01, 24:21:03, 24:208:01, 31:05, 31:200, 32:13, 33:10 |
| 5 | 130 bp 185 bp | 1070 bp | *29:04 *29:23 | |
| 6 | 130 bp | 1070 bp | *29:05, 29:33, 29:40, 29:77, 29:87, 29:104 | *11:01:28, 11:01:77, 24:21:03, 24:208:01, 31:24, 31:136, 32:02, 32:22, 33:59, 33:102, 33:150, 33:190 |
| 7 | 210 bp | 1070 bp | *29:06, 29:123 ^w , 29:151 ^w | *31:51 ^w , 32:12 ^w , 33:168 ^w , 74:26 ^w , B*08:01:07^w , |



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| | | | | |
|---------------------------|---------------------------|---------------|--|--|
| | | | | B*15:02:07^w, B*15:17:03^w, B*27:07:05^w, B*41:01:05^w, B*55:02:10^w, C*02:02:15^w, C*03:03:20^w, C*04:175^w, C*07:04:13^w, C*08:01:15^w |
| 8⁴ | 85 bp | 800 bp | *29:07, 29:49 | *01:301Q, 03:347, 11:139, 23:53, 23:70, 24:17:01:01- 24:17:01:02, 24:41, 24:208:01-24:208:02:02, 24:488, 24:499, 24:503, 24:535 |
| | 160 bp | | *29:46 | *32:139 |
| 9^{4,5} | 80 bp 170 bp | 1070 bp | *29:16, 29:139 *29:08N | *01:157, 03:27, 11:233 |
| 10^{4,6} | 90 bp | 800 bp | *29:09, 29:33, 29:51, 29:73, 29:144 | *01:01:114, 02:24:02, 02:507, 03:01:18, 11:01:28, 11:01:77, 24:21:03, 24:208:01, 31:24, 31:200, 32:33:01, 32:33:03, 32:109, 33:34, 33:164 |
| | 165 bp 215 bp | | *29:17, 29:43 *29:54 | |
| 11⁴ | 110 bp 190 bp | 800 bp | *29:14, 29:35 *29:10:01-29:10:02, 29:23, 29:161 | C*07:04:13, C*08:01:15 |
| 12^{4,5} | 80 bp | 800 bp | *29:01:11, 29:02:04, 29:18, 29:48 | *02:01:165, 03:01:39, 32:01:01:01-32:01:07, 32:01:09-32:01:17, 32:01:19-32:01:29, 32:01:31-32:03:01:02, 32:05-32:55:03, 32:57- 32:69, 32:71, 32:73-32:107, 32:109-32:112N, 32:114- 32:140, 32:142-32:152, 32:154-32:158, 68:01:28, 68:01:36, 74:01:01:01- 74:01:05, 74:01:07-74:13, 74:15-74:37, 74:39-74:41 |
| | 145 bp | | *29:78N | |
| 13^{4,5,7} | 90 bp 165 bp 260 bp | 1070 bp | *29:11, 29:51, 29:73 *29:12, 29:92 *29:55 | *02:24:02, 02:507, 32:109 *31:16, 33:58 |
| 14 | 200 bp | 1070 bp | *29:01:01:01-29:13, 29:15- 29:17, 29:19-29:36, 29:38- 29:47, 29:49-29:55, 29:57- 29:104, 29:106-29:163, 29:165-29:167 | |
| 15 | 240 bp | 1070 bp | *29:01:01:01-29:12, 29:14- 29:18, 29:20-29:36, 29:38, 29:40-29:47, 29:49-29:55, 29:57-29:97, 29:99-29:158, 29:160-29:167 | *01:143, 26:207, 31:79, 33:13, 33:48 |
| 16^{4,5} | 95 bp | 1070 bp | *29:15 | *02:221, 23:41, 30:162, 31:78 |
| | 160 bp | | *29:21, 29:43 | |



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| | 190 bp | | *29:53 | |
| 17⁴ | 100 bp 130 bp 190 bp 215 bp | 1070 bp | *29:51, 29:69, 29:73 *29:24, 29:40 *29:27, 29:53 *29:54 | *02:24:02, 02:507, 32:109 |
| 18⁵ | 225 bp 260 bp | 1070 bp | *29:37, 29:56 *29:36 | *31:210, 32:07, 33:119 |
| 19⁶ | 160 bp 260 bp 505 bp | 1070 bp | *29:25 *29:55 *29:26 | |
| 20^{4,5} | 105 bp | 1070 bp | *29:44, 29:64 | *01:01:114, 02:65, 02:829, 11:01:28, 11:01:77, 11:372, 31:123, 31:179, 31:193, 32:01:01:01-32:01:06, 32:01:08-32:01:11, 32:01:13-32:01:30, 32:01:32-32:01:47, 32:01:49-32:03:01:02, 32:05-32:27N, 32:29- 32:30:01, 32:31-32:33:01, 32:33:03-32:65, 32:67- 32:93, 32:95-32:100, 32:102-32:128, 32:130N- 32:131, 32:133N-32:157, 33:165, 74:01:01:01-74:41 |
| 21 | 185 bp | 1070 bp | *29:22 | *01:20, 01:66, 01:130, 02:19, 02:44, 02:149:01- 02:149:02, 02:309, 02:408, 02:436, 02:619:01- 02:619:02, 02:838, 02:842, 02:927, 02:947-02:948, 02:1002, 03:95, 03:343, 11:288, 24:14:01:01- 24:14:01:04, 24:93, 24:324, 26:22, 30:47, 31:99, 33:22, 66:09, B*07:451, B*08:204, C*02:74 |
| 22⁴ | 115 bp 260 bp | 800 bp | *29:29 *29:13 | *01:148, 03:327, 11:128, 26:85, 30:189, 33:139, 66:41, 68:58:01-68:58:02 *24:82, 31:07-31:08, 31:10, 32:42 |
| 23⁴ | 75 bp | 1070 bp | *29:32 | *02:24:02, 02:65, 02:152, 02:507, 02:829, 11:372, 23:03:01, 23:83, 24:21:03, 31:01:02:01-31:01:29, 31:01:31-31:01:45, 31:01:47-31:02:02, 31:05, 31:07-31:61, 31:63-31:66, 31:70-31:119, 31:121-31:178, 31:180- 31:211, 32:01:01:01-32:01:06, 32:01:08-32:01:11, |



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| | | | | 32:01:13-32:01:27, 32:01:29-32:01:47, 32:01:49-32:03:01:02, 32:05-32:27N, 32:29, 32:31, 32:33:01, 32:33:03- 32:47, 32:49-32:65, 32:67- 32:93, 32:95-32:100, 32:102-32:118, 32:120- 32:156, 33:01:01:01- 33:01:04, 33:01:06- 33:01:16, 33:03:01:01- 33:03:18, 33:03:20- 33:03:23, 33:03:25- 33:03:26, 33:03:28-33:17, 33:20-33:31, 33:33-33:37, 33:39-33:151, 33:153- 33:158, 33:160-33:225, 74:01:01:01-74:41, B*15:17:03 |
| | 510 bp | | *29:81, 29:133:01:01- 29:133:01:02 | |
| 24⁴ | 125 bp | 1070 bp | *29:71 | *31:77 |
| 25⁴ | 110 bp | 1070 bp | *29:90, 29:150 | *31:108, 32:120, 33:110 |
| 26 | 185 bp | 1070 bp | *29:103 | |
| 27 | 510 bp | 1070 bp | *29:81, 29:133:01:01- 29:133:01:02 | |
| 28⁴ | 95 bp | 1070 bp | *29:112N | |
| 29⁴ | 105 bp | 1070 bp | *29:19-29:20, 29:34 | *01:01:126, 01:69:03, 31:04:02 |
| 30 | 475 bp 270 bp | 1070 bp | *29:82 *29:88 | |
| 31⁸ | - | - | Negative Control | |

¹Alleles 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*29 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.

²The 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



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

101.428-12 – including *Taq* polymerase, IFU-01
101.428-12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 1R3

Lot-specific Information

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.

³For 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.

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

⁵Primer mixes 9, 12, 13, 16, 18 and 20 may have tendencies of unspecific amplifications.

⁶Primer mixes 10 and 19 have a tendency giving rise to primer oligomer formation.

⁷Primer mix 13 may give rise to a lower yield of HLA-specific PCR product than the other A*29 primer mixes.

⁸Primer mix 31 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.



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For *In Vitro* Diagnostic Use
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101.428-12 – including *Taq* polymerase, IFU-01
101.428-12u – without *Taq* polymerase, IFU-02

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Lot No.: 1R3

Lot-specific Information
PRIMER SPECIFICATION

| Well No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec. PCR product | 480 | 130 | 440 | 110 | 130 | 130 | 210 | 85 | 80 | 90 | 110 | 80 |
| | | | | 165 | 185 | | | 160 | 170 | 165 | 190 | 145 |
| | | | | | | | | | | 215 | | |
| Length of int. pos. control ¹ | 800 | 1070 | 800 | 800 | 1070 | 1070 | 1070 | 800 | 1070 | 800 | 800 | 800 |
| 5'-primer(s) ² | 180 | 808 | 219 | 448 | 180 | 448 | 448 | 368 | 97 | 82 | 180 | 180 |
| | 5'-TTT 3' | 5'-CgT 3' | 5'-gCA 3' | 5'-CCT 3' | 5'-TTT 3' | 5'-CCT 3' | 5'-CCT 3' | 5'-gTT 3' | 5'-TCA 3' | 5'-ACC 3' | 5'-TTT 3' | 5'-TTT 3' |
| | | | | | | | | 652 | 413 | 130 | 448 | |
| | | | | | | | | 5'-CTg 3' | 5'-CCg 3' | 5'-AgA 3' | 5'-CCT 3' | |
| | | | | | | | | | | 140 | | |
| | | | | | | | | | | 5'-CAA 3' | | |
| | | | | | | | | | | 448 | | |
| | | | | | | | | | | 5'-CCT 3' | | |
| 3'-primer(s) ³ | 376 | 895 | 376 | 506 | 268 | 533 | 616 | 413 | 224 | 257 | 238 | 218 |
| | 5'-gTg 3' | 5'-CTC 3' | 5'-gTC 3' | 5'-TgT 3' | 5'-ATg 3' | 5'-gCC 3' | 5'-CgC 3' | 5'-gCC 3' | 5'-TCT 3' | 5'-gCA 3' | 5'-CCT 3' | 5'-gCg 3' |
| | | | | 526 | 326 | 539 | | 773 | 454 | 497 | 326 | 286 |
| | | | | 5'-CAT 3' | 5'-TgA 3' | 5'-TCT 3' | | 5'-gCT 3' | 5'-CTg 3' | 5'-Tgg 3' | 5'-TgA 3' | 5'-CTA 3' |
| | | | | 570 | | | | | | 502 | 526 | |
| | | | | 5'-CCg 3' | | | | | | 5'-CTT 3' | 5'-CAT 3' | |
| | | | | | | | | | | | 601 | |
| | | | | | | | | | | | 5'-CTT 3' | |
| Well No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

| Well No. | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|-----------|-----------|-----------|-----------|-----------|
| Length of spec. PCR product | 90 | 200 | 240 | 95 | 100 | 225 | 160 | 105 | 185 | 115 | 75 | 125 |
| | 165 | | | 160 | 130 | 260 | 260 | | | 260 | 510 | |
| | 260 | | | 190 | 190 | | 505 | | | | | |
| | | | | | 215 | | | | | | | |
| Length of int. pos. control ¹ | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 |
| 5'-primer(s) ² | 97 | 98 | 98 | 107 | 82 | 41 | 98 | 385 | 355 | 98 | 221 | 448 |
| | 5'-TCA 3' | 5'-CAC 3' | 5'-CAC 3' | 5'-CgC 3' | 5'-ACC 3' | 5'-CTT 3' | 5'-CAC 3' | 5'-ggC 3' | 5'-CCg 3' | 5'-CAC 3' | 5'-ACA 3' | 5'-CCT 3' |
| | 448 | | | 134 | 107 | | 3 rd I | | | 355 | 413 | |
| | 5'-CCT 3' | | | 5'-CCT 3' | 5'-CgC 3' | | 5'-ATA 3' | | | 5'-CCA 3' | 5'-CCA 3' | |
| | | | | 140 | 448 | | | | | | | |
| | | | | 5'-CAA 3' | 5'-CCT 3' | | | | | | | |
| | | | | 484 | | | | | | | | |
| | | | | 5'-ACg 3' | | | | | | | | |
| 3'-primer(s) ³ | 221 | 257 | 299 | 257 | 257 | 97 | 217 | 448 | 497 | 317 | 448 | 530 |
| | 5'-ACA 3' | 5'-gCA 3' | 5'-TCg 3' | 5'-gCA 3' | 5'-gCA 3' | 5'-ggA 3' | 5'-TgA 3' | 5'-CAA 3' | 5'-TgA 3' | 5'-ggA 3' | 5'-CAA 3' | 5'-CCA 3' |
| | 316 | | | 538 | 506 | 131 | 316 | | | 430 | | |
| | 5'-gCT 3' | | | 5'-CAA 3' | 5'-TgT 3' | 5'-ggA 3' | 5'-gCT 3' | | | 5'-gCT 3' | | |
| | 494 | | | | 533 | | 667 | | | | | |
| | 5'-TCg 3' | | | | 5'-gCC 3' | | 5'-ggT 3' | | | | | |
| | 497 | | | | 545 | | | | | | | |
| | 5'-Tgg 3' | | | | 5'-AgC 3' | | | | | | | |
| | | | | | 595 | | | | | | | |
| | | | | | 5'-CCA 3' | | | | | | | |
| Well No. | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |



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

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **1R3**

Lot-specific Information

| Well No. | 25 | 26 | 27 | 28 | 29 | 30 |
|--|---------------|----------|-----------|-----------|------------|---------|
| Length of spec. PCR product | 110 | 185 | 510 | 95 | 105 | 270 |
| Length of int. pos. control ¹ | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 |
| 5'-primer(s) ² | 448 | 98 | 221 | 288 | 219 | 98 |
| | 5' -CCT 3' 5' | -CAC 35' | -ACA 3 5' | -.g 3' 5' | -gCA 3 5' | -CAC 3' |
| 3'-primer(s) ³ | 518 | 242 | 448 | 341 | 282 | 329 |
| | 5' -CCA 3' 5' | -CCA 35' | -CAA 35' | -Cgg 35' | -gAg 3 5' | -ggg 3' |
| | | | | | 282 | |
| | | | | | 5' -gAg 3' | |
| | | | | | 412 | |
| | | | | | 5' -CCC 3' | |
| Well No. | 25 | 26 | 27 | 28 | 29 | 30 |

¹The 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.

²The nucleotide position matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.



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101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

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Lot No.: **1R3**

Lot-specific Information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------|--------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A*29 SSP subtyping kit ² | | | | | | | | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | | | | | | | | |
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | | | Prod No.: | 201901601 | 201901602 | 201901603 | 201901604 | 201901605 | 201901606 | 201901607 | 201901608 | 201901609 | 201901610 | 201901611 | 201901612 | 201901613 | 201901614 | 201901615 | 201901616 |
| | IHWC cell line ¹ | 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 | 9007 DEM | *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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



101.428-12 – including *Taq* polymerase, IFU-01
101.428-12u – without *Taq* polymerase, IFU-02

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Lot No.: **1R3**

Lot-specific Information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | |
|---|-----------------------------|--------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A*29 SSP subtyping kit ² | | | | | | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | | | | | | |
| | | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | | | | Prod No.: | 201901617 | 201901618 | 201901619 | 201901620 | 201901621 | 201901622 | 201901623 | 201901624 | 201901625 | 201901626 | 201901627 | 201901628 | 201901629 | 202023730 |
| | IHWC cell line ¹ | 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 | 9007 DEM | *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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



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

101.428-12 – including *Taq* polymerase, IFU-01
 101.428-12u – without *Taq* polymerase, IFU-02

Visit www.caredx.com for
 “Instructions for Use” (IFU)

Lot No.: **1R3**

Lot-specific Information

¹The 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.

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

No DNAs carrying the alleles to be amplified by primer solutions 2, 4 to 7, 9 to 11, 13, 17 to 19, 21, 22 and 24 to 30 were available.

The specificities of the primers in primer solutions 4, 6, 10, 11, 13, 17, 18, 21, 22 and 29 were tested by separately adding one, two or three additional 5'-primers, and one or two additional 3'-primers respectively.

In primer solutions 2, 5, 7, 9, 19, 24 to 26 and 30 it was only possible to test the 5'-primers, the 3'-primers were not possible to be tested.

In primer solutions 27 and 28 it was only possible to test the 3'-primer, the 5'-primer was not possible to be tested.

In primer solutions 4, 6, 8, 11 to 13, 17, 18, 22 and 29 one or more of the 3'-primers were not possible to be tested, and in primer solutions 10, 16, 17 and 23 one, two or three of the 5'-primers were not possible to be tested. In addition, one or more primers in primer solutions 8 and 16 were tested by separately adding one 3'-primer and one 5'-primer respectively.



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101.428-12 – including *Taq* polymerase, IFU-01
101.428-12u – without *Taq* polymerase, IFU-02

Visit www.caredx.com for
“Instructions for Use” (IFU)

Lot No.: **1R3**

Lot-specific Information

ADDRESSES:

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Fax: +46-8-717 88 18

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Web page: www.caredx.com

Distributed by:

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Tel: 1-877-653-78171

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



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For *In Vitro* Diagnostic Use

MA123 v02 SSP PI Template

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