

101.512-24/03 – including *Taq* polymerase
101.512-24u/03u – without *Taq* polymerase

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

Lot No.: **4S5**

Lot-specific information

Olerup SSP® HLA-B*07

| | |
|---|--|
| Product number: | 101.512-24/03 – including <i>Taq</i> pol. 101.512-24u/03u – without <i>Taq</i> pol. |
| Lot number: | 4S5 |
| Expiry date: | 2027-09-01 |
| Number of tests: | 24 tests – Product No. 101.512-24/24u 3 tests – Product No. 101.512-03/03u |
| Number of wells per test: | 88+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. 4S5.

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-B*07 LOT (1N0)**

- The product documentation has been updated for new alleles of IMGT 3.53.0.
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles.

The HLA-B*07 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B*07 lot was made (**Lot No. 1N0**).

The HLA-B*07 primer set is unchanged compared to the previous *Olerup SSP®* HLA-B*07 lot (**Lot No. 1N0**).

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
Date: October 2023, Rev. No: 00

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Well **89** 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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PRODUCT DESCRIPTION

HLA-B*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*07:02 to B*07:483 alleles.

PLATE LAYOUT

Each test consists of 89 PCR reactions in a 96 well cut PCR plate. Wells 90 to 96 are empty.

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

The 96 well cut PCR plate is marked with ‘HLA-B*07’ in silver/gray ink.

Well No. 1 is marked with the Lot Number ‘4S5’.

Wells 1 to 88 – HLA-B*07 high resolution primers.

Well 89 – Negative Control (NC).

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

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

INTERPRETATION

Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B*07 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*07 alleles, i.e. **B*07:02 to B*07:483**, recognized by the HLA Nomenclature Committee in July 2023^{1,2} will be amplified by the primers in the HLA-B*07 subtyping kit³.

The HLA-B*07 kit enables separation of the confirmed HLA-B*07 alleles as listed in the IMGT/HLA database 3.27.0. An HLA allele is listed as confirmed by IMGT/HLA



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if it has been sequenced by more than a single laboratory or from multiple sources.
Current allele confirmation status for HLA-B*07 alleles is listed below.

The HLA-B*07 kit also enables identification of many null and alternatively expressed alleles.

The following HLA-B*07 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

| Alleles | Primer mix | Alleles | Primer mix |
|------------------|------------|-------------------------|------------|
| B*07:42, 07:118 | 26 | B*07:89, 07:246, 07:473 | 59 |
| B*07:49N, 07:169 | 73 | B*07:94, 07:135N | 63 |
| B*07:60, 07:100 | 31 | B*07:102, 07:106 | 69 |
| B*07:61, 07:149 | 33 | B*07:121, 07:126 | 75 |
| B*07:63, 07:143 | 35 | B*07:129, 07:231N | 78 |

¹HLA-B alleles listed on the IMGT/HLA web page 2023-July-12, release 3.53.0, 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>.

³The following alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or the HLA-B*48 high resolution kit.

Alleles

B*07:50, 07:453, B*48:08



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ALLELE CONFIRMATION STATUS

| Allele | Status ¹ | Allele | Status ¹ | Allele | Status ¹ | Allele | Status ¹ |
|----------------------|---------------------|----------------------|---------------------|-------------------|---------------------|-------------------|---------------------|
| B*07:02:01:01 | Confirmed | B*07:02:49 | Unconfirmed | B*07:35 | Unconfirmed | B*07:82 | Confirmed |
| B*07:02:01:02 | Unconfirmed | B*07:02:50 | Unconfirmed | B*07:36 | Confirmed | B*07:83 | Unconfirmed |
| B*07:02:01:03 | Unconfirmed | B*07:02:51 | Unconfirmed | B*07:37 | Confirmed | B*07:84 | Unconfirmed |
| B*07:02:02 | Confirmed | B*07:03 | Confirmed | B*07:38 | Confirmed | B*07:85 | Unconfirmed |
| B*07:02:03 | Confirmed | B*07:04 | Confirmed | B*07:39 | Unconfirmed | B*07:86 | Confirmed |
| B*07:02:04 | Unconfirmed | B*07:05:01:01 | Confirmed | B*07:40 | Unconfirmed | B*07:87 | Confirmed |
| B*07:02:05 | Unconfirmed | B*07:05:01:02 | Unconfirmed | B*07:41 | Unconfirmed | B*07:88 | Confirmed |
| B*07:02:06 | Unconfirmed | B*07:05:01:03 | Unconfirmed | B*07:42 | Confirmed | B*07:89 | Unconfirmed |
| B*07:02:07 | Confirmed | B*07:05:02 | Unconfirmed | B*07:43 | Confirmed | B*07:90 | Unconfirmed |
| B*07:02:08 | Confirmed | B*07:05:03 | Unconfirmed | B*07:44N | Confirmed | B*07:91 | Confirmed |
| B*07:02:09 | Unconfirmed | B*07:05:04 | Unconfirmed | B*07:45 | Unconfirmed | B*07:92 | Confirmed |
| B*07:02:10 | Confirmed | B*07:05:05 | Confirmed | B*07:46 | Unconfirmed | B*07:93 | Unconfirmed |
| B*07:02:11 | Unconfirmed | B*07:05:06 | Unconfirmed | B*07:47 | Confirmed | B*07:94 | Confirmed |
| B*07:02:12 | Unconfirmed | B*07:05:07 | Unconfirmed | B*07:48 | Confirmed | B*07:95 | Confirmed |
| B*07:02:13 | Confirmed | B*07:05:08 | Confirmed | B*07:49N | Unconfirmed | B*07:96:01 | Confirmed |
| B*07:02:14 | Confirmed | B*07:06:01 | Confirmed | B*07:50 | Unconfirmed | B*07:96:02 | Unconfirmed |
| B*07:02:15 | Confirmed | B*07:06:02 | Unconfirmed | B*07:51 | Confirmed | B*07:97 | Unconfirmed |
| B*07:02:16 | Unconfirmed | B*07:07 | Confirmed | B*07:52 | Unconfirmed | B*07:98 | Confirmed |
| B*07:02:17 | Confirmed | B*07:08:01 | Confirmed | B*07:53 | Confirmed | B*07:99 | Unconfirmed |
| B*07:02:18 | Unconfirmed | B*07:08:02 | Unconfirmed | B*07:54 | Confirmed | B*07:100 | Unconfirmed |
| B*07:02:19 | Unconfirmed | B*07:09 | Confirmed | B*07:55 | Unconfirmed | B*07:101 | Unconfirmed |
| B*07:02:20 | Unconfirmed | B*07:10 | Confirmed | B*07:56:01 | Unconfirmed | B*07:102 | Confirmed |
| B*07:02:21 | Confirmed | B*07:11 | Unconfirmed | B*07:56:02 | Confirmed | B*07:103 | Confirmed |
| B*07:02:22 | Unconfirmed | B*07:12 | Confirmed | B*07:57 | Confirmed | B*07:104 | Unconfirmed |
| B*07:02:23 | Confirmed | B*07:13 | Confirmed | B*07:58 | Unconfirmed | B*07:105 | Confirmed |
| B*07:02:24 | Unconfirmed | B*07:14 | Confirmed | B*07:59 | Unconfirmed | B*07:106 | Confirmed |
| B*07:02:25 | Unconfirmed | B*07:15 | Confirmed | B*07:60 | Unconfirmed | B*07:107 | Unconfirmed |
| B*07:02:26 | Unconfirmed | B*07:16 | Confirmed | B*07:61 | Unconfirmed | B*07:108 | Unconfirmed |
| B*07:02:27 | Confirmed | B*07:17 | Confirmed | B*07:62 | Confirmed | B*07:109 | Confirmed |
| B*07:02:28 | Confirmed | B*07:18:01 | Unconfirmed | B*07:63 | Confirmed | B*07:110 | Confirmed |
| B*07:02:29 | Unconfirmed | B*07:18:02 | Confirmed | B*07:64 | Confirmed | B*07:111N | Confirmed |
| B*07:02:30 | Unconfirmed | B*07:19 | Confirmed | B*07:65 | Unconfirmed | B*07:112 | Unconfirmed |
| B*07:02:31 | Unconfirmed | B*07:20 | Confirmed | B*07:66 | Unconfirmed | B*07:113 | Unconfirmed |
| B*07:02:32 | Unconfirmed | B*07:21 | Unconfirmed | B*07:67N | Unconfirmed | B*07:114 | Unconfirmed |
| B*07:02:33 | Confirmed | B*07:22:01 | Unconfirmed | B*07:68:01 | Confirmed | B*07:115 | Unconfirmed |
| B*07:02:34 | Confirmed | B*07:22:02 | Confirmed | B*07:68:02 | Confirmed | B*07:116 | Unconfirmed |
| B*07:02:35 | Confirmed | B*07:23 | Unconfirmed | B*07:68:03 | Confirmed | B*07:117 | Unconfirmed |
| B*07:02:36 | Confirmed | B*07:24 | Confirmed | B*07:69 | Confirmed | B*07:118 | Unconfirmed |
| B*07:02:37 | Unconfirmed | B*07:25 | Unconfirmed | B*07:70 | Unconfirmed | B*07:119 | Confirmed |
| B*07:02:38 | Unconfirmed | B*07:26 | Confirmed | B*07:71 | Confirmed | B*07:120 | Unconfirmed |
| B*07:02:39 | Unconfirmed | B*07:27 | Unconfirmed | B*07:72 | Confirmed | B*07:121 | Unconfirmed |
| B*07:02:40 | Unconfirmed | B*07:28 | Unconfirmed | B*07:73 | Confirmed | B*07:122 | Confirmed |
| B*07:02:41 | Confirmed | B*07:29 | Unconfirmed | B*07:74 | Confirmed | B*07:123 | Unconfirmed |
| B*07:02:42 | Unconfirmed | B*07:30 | Unconfirmed | B*07:75 | Unconfirmed | B*07:124 | Unconfirmed |
| B*07:02:43 | Unconfirmed | B*07:31 | Confirmed | B*07:76 | Confirmed | B*07:125 | Confirmed |
| B*07:02:44 | Unconfirmed | B*07:32 | Confirmed | B*07:77 | Confirmed | B*07:126 | Confirmed |
| B*07:02:45 | Confirmed | B*07:33:01 | Confirmed | B*07:78 | Unconfirmed | B*07:127 | Unconfirmed |
| B*07:02:46 | Unconfirmed | B*07:33:02 | Unconfirmed | B*07:79 | Unconfirmed | B*07:128 | Unconfirmed |
| B*07:02:47 | Unconfirmed | B*07:33:03 | Unconfirmed | B*07:80 | Confirmed | B*07:129 | Unconfirmed |
| B*07:02:48 | Confirmed | B*07:34 | Unconfirmed | B*07:81 | Unconfirmed | B*07:130 | Unconfirmed |



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Lot-specific information

| Allele | Status ¹ | Allele | Status ¹ | Allele | Status ¹ | Allele | Status ¹ |
|--------------------|---------------------|-----------------|---------------------|--------------------|---------------------|-----------------|---------------------|
| B*07:131 | Confirmed | B*07:179 | Unconfirmed | B*07:228:02 | Unconfirmed | B*07:277 | Unconfirmed |
| B*07:132 | Confirmed | B*07:180 | Unconfirmed | B*07:229 | Unconfirmed | B*07:278 | Confirmed |
| B*07:133 | Unconfirmed | B*07:181N | Unconfirmed | B*07:230 | Unconfirmed | B*07:279 | Unconfirmed |
| B*07:134 | Unconfirmed | B*07:182N | Unconfirmed | B*07:231N | Unconfirmed | B*07:280 | Unconfirmed |
| B*07:135N | Unconfirmed | B*07:183 | Unconfirmed | B*07:232 | Unconfirmed | B*07:281 | Unconfirmed |
| B*07:136:01 | Confirmed | B*07:184 | Unconfirmed | B*07:233 | Unconfirmed | B*07:282 | Unconfirmed |
| B*07:136:02 | Unconfirmed | B*07:185 | Unconfirmed | B*07:234 | Unconfirmed | B*07:283 | Unconfirmed |
| B*07:137 | Unconfirmed | B*07:186 | Unconfirmed | B*07:235 | Unconfirmed | B*07:284 | Unconfirmed |
| B*07:138 | Unconfirmed | B*07:187 | Unconfirmed | B*07:236 | Unconfirmed | B*07:285N | Unconfirmed |
| B*07:139 | Unconfirmed | B*07:188 | Unconfirmed | B*07:237 | Confirmed | B*07:286 | Unconfirmed |
| B*07:140 | Unconfirmed | B*07:189 | Unconfirmed | B*07:238 | Confirmed | B*07:287 | Unconfirmed |
| B*07:141 | Unconfirmed | B*07:190 | Unconfirmed | B*07:239 | Unconfirmed | B*07:288 | Unconfirmed |
| B*07:142 | Unconfirmed | B*07:191 | Unconfirmed | B*07:240 | Unconfirmed | B*07:289 | Unconfirmed |
| B*07:143 | Confirmed | B*07:192 | Unconfirmed | B*07:241 | Unconfirmed | B*07:290 | Unconfirmed |
| B*07:144 | Unconfirmed | B*07:193 | Unconfirmed | B*07:242 | Unconfirmed | | |
| B*07:145 | Unconfirmed | B*07:194 | Unconfirmed | B*07:243 | Unconfirmed | | |
| B*07:146 | Unconfirmed | B*07:195 | Unconfirmed | B*07:244 | Unconfirmed | | |
| B*07:147 | Unconfirmed | B*07:196 | Unconfirmed | B*07:245 | Unconfirmed | | |
| B*07:148 | Confirmed | B*07:197 | Unconfirmed | B*07:246 | Confirmed | | |
| B*07:149 | Confirmed | B*07:198 | Unconfirmed | B*07:247 | Unconfirmed | | |
| B*07:150 | Unconfirmed | B*07:199 | Unconfirmed | B*07:248 | Confirmed | | |
| B*07:151:01 | Confirmed | B*07:200 | Unconfirmed | B*07:249 | Unconfirmed | | |
| B*07:151:02 | Unconfirmed | B*07:201N | Unconfirmed | B*07:250 | Unconfirmed | | |
| B*07:152 | Unconfirmed | B*07:202 | Unconfirmed | B*07:251N | Unconfirmed | | |
| B*07:153 | Unconfirmed | B*07:203 | Unconfirmed | B*07:252 | Unconfirmed | | |
| B*07:154 | Unconfirmed | B*07:204 | Unconfirmed | B*07:253 | Unconfirmed | | |
| B*07:155 | Unconfirmed | B*07:205 | Unconfirmed | B*07:254 | Unconfirmed | | |
| B*07:156 | Unconfirmed | B*07:206 | Confirmed | B*07:255 | Unconfirmed | | |
| B*07:157 | Unconfirmed | B*07:207 | Unconfirmed | B*07:256 | Unconfirmed | | |
| B*07:158 | Unconfirmed | B*07:208 | Confirmed | B*07:257 | Unconfirmed | | |
| B*07:159 | Unconfirmed | B*07:209 | Unconfirmed | B*07:258 | Unconfirmed | | |
| B*07:160 | Confirmed | B*07:210 | Unconfirmed | B*07:259 | Unconfirmed | | |
| B*07:161N | Unconfirmed | B*07:211 | Unconfirmed | B*07:260 | Unconfirmed | | |
| B*07:162 | Unconfirmed | B*07:212 | Unconfirmed | B*07:261 | Unconfirmed | | |
| B*07:163 | Confirmed | B*07:213 | Unconfirmed | B*07:262 | Confirmed | | |
| B*07:164 | Unconfirmed | B*07:214 | Unconfirmed | B*07:263 | Unconfirmed | | |
| B*07:165 | Unconfirmed | B*07:215 | Unconfirmed | B*07:264 | Unconfirmed | | |
| B*07:166 | Unconfirmed | B*07:216 | Unconfirmed | B*07:265 | Unconfirmed | | |
| B*07:167N | Unconfirmed | B*07:217 | Unconfirmed | B*07:266 | Unconfirmed | | |
| B*07:168 | Unconfirmed | B*07:218 | Confirmed | B*07:267 | Unconfirmed | | |
| B*07:169 | Unconfirmed | B*07:219 | Confirmed | B*07:268 | Unconfirmed | | |
| B*07:170 | Unconfirmed | B*07:220 | Unconfirmed | B*07:269 | Unconfirmed | | |
| B*07:171 | Unconfirmed | B*07:221 | Unconfirmed | B*07:270 | Unconfirmed | | |
| B*07:172 | Unconfirmed | B*07:222 | Confirmed | B*07:271 | Unconfirmed | | |
| B*07:173 | Unconfirmed | B*07:223 | Unconfirmed | B*07:272N | Unconfirmed | | |
| B*07:174 | Confirmed | B*07:224 | Unconfirmed | B*07:273 | Unconfirmed | | |
| B*07:175 | Confirmed | B*07:225 | Unconfirmed | B*07:274 | Unconfirmed | | |
| B*07:176 | Unconfirmed | B*07:226 | Unconfirmed | B*07:275 | Unconfirmed | | |
| B*07:177 | Unconfirmed | B*07:227 | Unconfirmed | B*07:276:01 | Confirmed | | |
| B*07:178 | Unconfirmed | B*07:228:01 | Unconfirmed | B*07:276:02 | Unconfirmed | | |

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2017-January-20, release 3.27.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B*07 homo- and heterozygotes is available upon request.



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Lot-specific information
SPECIFICITY TABLE

HLA-B*07 SSP subtyping

Specificities and sizes of the PCR products of the 88+1 primer mixes used for
HLA-B*07 SSP subtyping

| Primer Mix | Size of spec. PCR product ¹ | Size of control band ² | Amplified HLA-B*07 alleles ³ | Other amplified HLA Class I alleles |
|------------|--|-----------------------------------|--|---|
| 1 | 395 bp | 800 bp | *07:02:01:01-07:02:05, 07:02:07-07:02:27, 07:02:29- 07:02:98, 07:04:01-07:07:03, 07:09:01-07:09:02, 07:10 ^w , 07:11-07:12, 07:14:01-07:15, 07:17-07:26, 07:28-07:31:02, 07:33:01-07:36, 07:39- 07:49N, 07:51-07:64, 07:66- 07:68:03, 07:70-07:82, 07:84, 07:86-07:124, 07:126- 07:179, 07:181N-07:182N, 07:184-07:206, 07:208- 07:218, 07:220-07:227, 07:229:01-07:258, 07:260- 07:270, 07:272N-07:291, 07:293-07:305, 07:307- 07:367, 07:368 ^w , 07:369- 07:399, 07:401-07:427, 07:429-07:452, 07:454- 07:483 | *08:123, 08:132, 14:21, 38:26, 40:166 [?] , 42:01:01:01-42:02:02, 42:04-42:06, 42:08- 42:10, 42:12-42:25, 42:27-42:34, 45:06, 56:68, 67:01:01-67:01:03, 67:03-67:07, 73:01:01:01 ^w -73:03 ^w , 81:02:01-81:02:02 |
| 2 | 285 bp | 1070 bp | *07:02:01:01-07:02:05, 07:02:07-07:02:84, 07:02:86- 07:06:05, 07:08:01-07:11, 07:13, 07:15-07:17, 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- 07:136:02, 07:138, 07:140- 07:161N, 07:164, 07:166- 07:192, 07:194-07:195, 07:199-07:213, 07:215- 07:224, 07:226, 07:228:01- 07:234, 07:236-07:238, 07:240-07:247, 07:249- 07:254, 07:256-07:342, 07:344-07:349, 07:351N- 07:358, 07:360Q-07:385, 07:387, 07:389-07:428, 07:430-07:441, 07:443- 07:467Q, 07:469N-07:483 | *08:79:01-08:79:02, 08:156, 08:187, 13:174, 27:164, 35:66, 37:07, 40:15- 40:16:01:02, 40:31-40:32, 40:45, 40:80, 40:98, 42:05:01-42:05:02, 48:01:01:01- 48:01:11, 48:01:13-48:01:14, 48:05-48:12, 48:14-48:16, 48:18-48:20, 48:22, 48:27- 48:39, 48:41-48:50, 48:52, 48:54-48:56, 48:58, 81:01:01:01-81:10 |
| 3 | 235 bp | 1070 bp | *07:02:01:01-07:02:05, 07:02:07-07:02:84, 07:02:86- 07:04:02, 07:07:01:01-07:13, | *08:156, 13:174, 15:138, 15:241, 18:35, 18:110, 35:66, 37:07, 40:31-40:33, 40:52, 40:59, 40:98, 40:352, 46:06, 46:87, 48:08, |



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For *In Vitro* Diagnostic Use
MA123 v02 SSP PI Template
Date: October 2023, Rev. No: 00

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| 4⁴ | 105 bp | 800 bp | *07:02:01:01-07:02:05, 07:02:07-07:02:25, 07:02:27- 07:02:84, 07:02:86-07:03, 07:05:01:01-07:18:02, 07:20- 07:24, 07:27-07:32, 07:35- 07:39, 07:41-07:42, 07:44N- 07:47, 07:49N-07:52, 07:54, 07:56:01-07:59, 07:61-07:65, 07:67N-07:79, 07:81-07:99, 07:101-07:121, 07:123- 07:130, 07:132-07:138, 07:140-07:145, | *08:79:01-08:79:02, 08:156, 13:174, 35:66, 37:07, 40:15-40:16:01:02, 40:23, 40:32, 40:98, 40:128, 40:198, 44:150, 48:05, 48:08, C*04:77 |



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| 5 | 220 bp | 1070 bp | *07:02:01:01-07:02:05, 07:02:07-07:02:98, 07:04:01-07:07:03, 07:09:01-07:15, 07:17-07:26, 07:28, 07:30-07:31:02, 07:33:01-07:36, 07:39-07:49N, 07:51-07:64, 07:66-07:68:03, 07:73-07:84, 07:87-07:179, 07:181N-07:183, 07:185, 07:186 ^w , 07:187-07:203, 07:205-07:206, 07:208-07:209, 07:211-07:218, 07:220-07:227, 07:229:01-07:231N, 07:233-07:305, 07:307-07:312, 07:313 ^w , 07:314-07:351N, 07:353-07:382, 07:384-07:399, 07:401-07:414, 07:416-07:452, 07:454-07:477, 07:478 ^w , 07:479N-07:483 *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, 27:93-27:105, 27:107-27:118, 27:120-27:128, 27:130-27:136, 27:138-27:145, 27:147-27:152, 27:154-27:203, 27:205-27:214, 27:216-27:223N, 27:225N, 27:227-27:241, 27:243N-27:267, 37:60, 38:26, 42:01:01:01-42:01:04, 42:01:06-42:02:02, 42:04-42:06, 42:08-42:10, 42:12-42:23, 42:25, 42:27-42:34, 54:02, 55:10, 55:82, 56:35, 56:84, 67:01:01-67:07, 73:01:01:01-73:03, 81:01:01:01-81:10, A*25:75, C*02:191, C*03:137, C*03:182, C*03:459, C*03:504, C*07:102^w, C*07:351, C*12:82, C*16:116 |
| 6 | 215 bp | 1070 bp | *07:03, 07:08:01-07:08:02, 07:16, 07:27, 07:32, 07:38, 07:50, 07:69, 07:85:01-07:85:02, 07:180, 07:207, 07:228:01-07:228:02, 07:306, 07:400, 07:453 *08:94, 08:190 ^w , 08:226, 13:14, 13:83, 14:01:01:01-14:01:05, 14:01:07-14:01:14, 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, 14:77-14:78, 14:80-14:83, 14:86-14:87, 14:95, 14:97, 14:102-14:105, 14:108Q, 14:112-14:113N, 14:117, 15:68, 15:71, 15:175, 15:381, 15:556, 15:571, 15:582, 18:01:01:01-18:01:12, 18:01:14-18:01:50, 18:01:52-18:03:02, 18:05:01:01-18:15, 18:17N-18:24, 18:26-18:67, 18:69, 18:71-18:106Q, 18:108-18:124, 18:126-18:154N, 18:156:01:01-18:181, 18:183-18:196, 18:198-18:217, 18:219-18:232, 27:12:01:01-27:12:01:03, 27:16, 27:18, 27:23, 27:29, 27:92, 27:119, 27:153, 27:242, 35:50, 35:84, 35:162, 35:197, 35:231, 35:267, 35:269, 35:411, 35:423, 35:494, 35:576, 37:01:01:01-37:54, 37:56-37:59, 37:61, 37:62 ^w , 37:63-37:78, 37:80-37:84, 37:86N-37:98, 37:100-37:108, |



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| | 38:01:01:01-38:04, 38:06-38:25, 38:27-38:32, 38:35-38:53, 38:55Q-38:83N, 38:84 ^w , 38:85-38:88, 38:90-38:106, 38:108-38:111, 38:160-38:173Q, 39:01:01:01-39:01:01:29, 39:01:03:01-39:01:37, 39:01:39-39:03:02, 39:05:01:01-39:11, 39:13:01-39:20, 39:22-39:51, 39:53-39:62, 39:64-39:71, 39:73-39:75, 39:77-39:98, 39:99 ^w , 39:100-39:128, 39:130-39:153, 39:155-39:177, 39:178 ^w , 39:179-39:180, 39:182-39:200, 40:02:01:01-40:06:14, 40:06:16-40:06:22, 40:06:24-40:06:31, 40:08:01:01-40:09, 40:11:01:01-40:11:02, 40:13, 40:18-40:20:01:02, 40:24, 40:26-40:27:01, 40:27:03-40:29, 40:35:01-40:35:03, 40:37, 40:39-40:40, 40:44, 40:50:01:01-40:50:01:02, 40:56, 40:64:01:01-40:64:02, 40:68, 40:70:01-40:71, 40:74-40:75, 40:78, 40:82-40:83, 40:85-40:86, 40:89-40:91, 40:93-40:99, 40:104-40:105, 40:107, 40:109, 40:111, 40:115, 40:119-40:120, 40:122, 40:127, 40:131, 40:133Q, 40:142N-40:145, 40:148-40:149, 40:157, 40:159, 40:161-40:162, 40:165, 40:167, 40:169, 40:173-40:174, 40:176-40:177, 40:180-40:181, 40:184, 40:189-40:190, 40:201-40:203, 40:205-40:206, 40:209-40:211, 40:214, 40:220, 40:224-40:225:02, 40:229-40:230, 40:232, 40:243-40:244, 40:246, 40:248, 40:254-40:256N, 40:266-40:271, 40:274-40:276, 40:283-40:284, 40:287, 40:289-40:297, 40:302-40:307, 40:309, 40:311, 40:313-40:314, 40:317, 40:320, 40:322, 40:330-40:331, 40:334:01-40:335, 40:337N, 40:340-40:341, 40:343, 40:345N, 40:347-40:351, 40:354, 40:356, 40:359, 40:361N-40:364, 40:366, 40:369, 40:371, 40:373-40:376, 40:378, 40:384, 40:387, 40:389-40:390, 40:399N, 40:405, 40:408-40:415, 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, 40:451, 40:453-40:455, 40:458-40:460, 40:464-40:465, 40:467-40:468, 40:471-40:473, 40:476, 40:478, 40:481N-40:482, 40:484, 40:487N-40:489, 40:493-40:494, 40:500, 40:505, 40:511N, 40:514N-40:515, 40:518-40:522, 40:526-40:527, 40:529, 40:531-40:533, 40:535-40:537, 40:540N-40:541, 40:543-40:546, 42:07, 42:11, 42:26, 44:103, 44:130-44:131, 44:212, 44:224, 48:01:01:01-48:21, 48:23-48:56, 48:58, 49:31, 50:43, 51:57, 51:103, 51:116, 51:218, 51:354, 52:105, 53:21 |
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| 7⁴ | 100 bp | 1070 bp | *07:04:01-07:04:02, 07:25, 07:52, 07:146, 07:349 | *08:187, 40:136, 40:231, 40:279, 41:08, 42:05:01-42:05:02 |
| | 215 bp | | *07:29, 07:186, 07:383 | *08:123, 08:132, C*07:335, C*07:1059 |
| 8 | 160 bp | 1070 bp | *07:59 | *08:79:01-08:79:02, 08:187, 27:125, 27:164, 38:63, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29- 40:01:31, 40:01:33-40:01:84, 40:07, 40:10:01:01-40:10:02, 40:12:01-40:12:02, 40:14:01-40:16:01:02, 40:21-40:23, 40:25, 40:30, 40:34, 40:36, 40:38, 40:43, 40:45- 40:49, 40:54-40:55, 40:61-40:63, 40:65- 40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112- 40:114:02, 40:116-40:118N, 40:121, 40:123, 40:125:01-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149- 40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:171, 40:175, 40:179, 40:182-40:183, 40:185-40:186:02, 40:188, 40:191-40:199, 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, 40:233-40:242, 40:245:01- 40:245:02, 40:247, 40:249-40:253, 40:257- 40:265N, 40:272-40:273, 40:277-40:279, 40:281-40:282, 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- 40:329, 40:332-40:333, 40:338N-40:339, 40:344, 40:346, 40:353:01:01-40:353:02, 40:355, 40:357-40:358, 40:360, 40:365, 40:367-40:368, 40:370, 40:372N, 40:377, 40:379:01:01-40:380, 40:381:02-40:383, 40:385-40:386, 40:391-40:397, 40:400- 40:404, 40:406-40:407, 40:416-40:419, 40:421Q, 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, 40:469, 40:474-40:475:02, 40:477, 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, 40:512-40:513, 40:516- 40:517, 40:524-40:525, 40:528, 40:530, 40:538-40:539, 40:542, 41:08, 42:05:01- 42:05:02, 44:31, 48:01:01:01-48:01:14, 48:03:01:01-48:03:02, 48:05-48:07, 48:09- 48:12, 48:14-48:16, 48:18-48:22, 48:28- 48:45, 48:47-48:50, 48:52, 48:54-48:58, 81:01:01:01-81:10 |
| | 235 bp | | *07:05:01:01-07:06:05, 07:32, 07:34, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137- 07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206- 07:207, 07:209-07:210, 07:213-07:214, 07:222, 07:249, 07:258, 07:262:01- 07:262:02, 07:264, 07:269- 07:270, 07:278, 07:283, 07:287, 07:293, 07:304, 07:317, 07:324, 07:327, 07:332-07:333, 07:340, 07:349, 07:352-07:353, 07:356-07:358, 07:368, 07:378, 07:387, 07:389, 07:395, 07:399, 07:407- 07:408, 07:426Q, 07:434, 07:443, 07:474, 07:480 | |
| 9⁶ | 355 bp | 1070 bp | *07:05:01:01-07:05:12, 07:69, 07:225, 07:262:02, | *35:01:65, 35:46, 37:07, 48:05, 51:01:84, 81:10, C*03:04:36, C*04:01:133 |



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| 10 | 285 bp | 800 bp | *07:07:01:01-07:07:03, 07:12, 07:14:01-07:14:02, 07:18:01-07:18:02, 07:77, 07:137, 07:162-07:163, 07:193, 07:214, 07:248, 07:255 | *15:138, 15:230, 15:241, 15:297, 18:35, 18:110, 27:125, 38:63, 40:01:01-40:01:17, 40:01:19-40:01:73, 40:01:75-40:01:76, 40:01:78-40:01:84, 40:07, 40:10:01:01-40:10:02, 40:12:01-40:12:02, 40:14:01-40:14:03, 40:21-40:23, 40:25, 40:33, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:52, 40:54-40:55, 40:59-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114:02, 40:116-40:118N, 40:121, 40:123-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:158, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 40:182-40:183, 40:185-40:188, 40:191-40:199, 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, 40:234-40:242, 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, 40:338N-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, 40:379:01:01-40:379:01:02, 40:380-40:383, 40:385-40:386, 40:391-40:397, 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, 40:477, 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, 40:512-40:513, 40:516-40:517, 40:524-40:525, 40:528, 40:530, 40:538-40:539, 40:542, 41:08, 44:31, 44:150, 46:06, 46:87, 48:03:01:01-48:03:02, 48:17, 48:23, 48:40, 48:57, C*02:23, C*03:260, C*04:77, C*07:38:01-07:38:02 |
| | 420 bp | | *07:47, 07:81 | *08:52, 38:41, 38:67, 40:109 [?] , 40:292 [?] , 40:394, 44:355, 48:18, 49:67, 49:75 |
| 11 ⁶ | 130 bp 210 bp | 1070 bp | *07:39 *07:08:01-07:08:02, 07:10, 07:32, 07:38, 07:132, 07:207, | *38:169 *08:94, 08:190 ^w , 18:07:01-18:07:03:02, 18:29, 18:79, 18:136, 27:01-27:05:08, |



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| 12 | 225 bp | 1070 bp | *07:09:01-07:09:02, 07:11, 07:17, 07:162, 07:237, 07:255, 07:287 | *15:138, 15:241, 15:297, 18:35, 18:110, 35:66, 40:38, 40:52, 40:59-40:60, 40:158, 40:222, 40:352, 40:422, 46:06, 46:87, 48:14, 48:23, C*07:38:01-07:38:02 | |
| 13⁴ | 85 bp | 1070 bp | *07:31:01-07:31:02, 07:34, 07:43 | *08:187, 18:110, 40:199, 40:424, 41:08, 42:05:01-42:05:02, 48:37, C*07:38:01- 07:38:02 | |
| | 290 bp | | *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 | *15:297, 40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02, 44:150, 48:17, C*03:260 | |
| 14 | 215 bp | 800 bp | *07:26, 07:34, 07:43, 07:48:01-07:48:02, 07:80, 07:131, 07:147, 07:164, 07:209, 07:223, 07:226, 07:407, 07:411 | *08:13, 08:25, 08:143, 08:171, 08:205, 13:71, 13:108, 14:05, 14:13, 14:53, 15:55, 15:197:02, 15:329, 15:360, 15:383, 15:421, 18:14, 18:22, 27:07:01-27:07:06, 27:11, 27:24, 27:32-27:34, 27:43, 27:138, 27:164, 27:180, 27:187, 27:219, 27:251, 35:05:01:01-35:05:06, 35:16-35:17:05, 35:22:01:01-35:22:01:02, 35:30:01:01- 35:31, 35:51:01-35:51:02, 35:58, 35:72, 35:89, 35:97, 35:113-35:114, 35:125, 35:199, 35:242, 35:318, 35:368, 35:389, 35:416, 35:427N, 35:440, 35:459N, 35:472, 35:498-35:499, 35:509, 35:519, 35:525, 35:541, 35:572, 35:576, 39:03:01:01-39:03:01:03, 39:14:01:01, 39:24:01:01-39:24:02, 39:29, 40:02:01:01- 40:03:02, 40:05:01:01-40:05:02, 40:08:01:01-40:09, 40:13, 40:18-40:19, 40:24, 40:27:01-40:27:03, 40:29, 40:31, 40:35:01-40:35:03, 40:37, 40:39-40:40, 40:45, 40:50:01:01-40:50:01:02, 40:56- 40:58, 40:71, 40:78, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97, 40:104-40:105, 40:107, 40:111, 40:115, 40:119, 40:122, 40:133Q, 40:142N-40:145, 40:157, 40:164, 40:169, 40:173-40:174, 40:176, | |



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| 15 | 385 bp 420 bp | 1070 bp | *07:54, 07:123 *07:11, 07:47, 07:57, 07:75:01:01-07:75:01:02, 07:240, 07:253, 07:340, 07:463 | *40:513, 45:06 *08:17, 08:47, 08:295, 39:20, 39:124, 39:168, 42:15 |
| 16 | 205 bp 230 bp | 1070 bp | *07:132 *07:16, 07:27, 07:37:01- 07:38, 07:50, 07:75:01:01- 07:75:01:02, 07:91, 07:180, 07:207, 07:219, 07:228:01- 07:228:02, 07:306, 07:453 | *13:14, 13:83, 14:14, 15:68, 15:71, 15:175, 15:381, 15:446, 15:556, 15:571, 15:582, 18:01:01:01-18:01:01:78, 18:01:03- 18:01:12, 18:01:14-18:01:22, 18:01:24- 18:01:50, 18:01:52-18:02:03, 18:05:01:01- 18:15, 18:17N-18:24, 18:26-18:67, 18:69, 18:71-18:93, 18:95-18:106Q, 18:108- 18:124, 18:126-18:131:01:02, 18:133- 18:141, 18:143-18:151, 18:153-18:170, 18:173, 18:175-18:196, 18:199-18:202, 18:204-18:226, 18:228, 18:230-18:232, 27:01, 27:18, 27:23, 27:29, 27:44, 27:92, 27:119, 27:131, 27:257, 35:50, 35:84, 35:162, 35:197, 35:231, 35:267, 35:269, 35:411, 35:423, 35:494, 35:576, 37:01:01:01-37:36, 37:38-37:54, |



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| | | | | |
|-------------------------|------------------|---------------|---|---|
| 17 | 345 bp 425 bp | 1070 bp | *07:46 *07:11, 07:27, 07:57, 07:75:01:01-07:75:01:02, 07:236, 07:240, 07:253, 07:340, 07:463 | *08:292 *08:17, 08:47, 08:126, 08:131, 08:139, 08:295, 38:17, 39:20, 39:124, 39:168, 42:15 |
| 18 | 265 bp | 1070 bp | *07:12, 07:78, 07:84, 07:162, 07:193, 07:229:01- 07:229:02, 07:278 | *35:66, 40:59-40:60, 40:125:01-40:125:02, 40:352, 40:377, 48:17, C*02:23, C*04:77, C*07:38:01-07:38:02 |
| 19 | 205 bp | 800 bp | *07:20, 07:140, 07:153 | *15:14, 15:91, 15:131, 15:161, 15:518, 15:551, 15:634, 18:56, 18:169, 35:45, 35:71, 35:169, 35:309, 35:452, 39:173, 40:132, 40:178, 40:523, 44:10, 44:14, 44:17, 44:31, 44:43:01-44:43:02, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 44:135, 44:184, 44:213, 44:230, 44:339, 45:09, 45:14, 46:17, 51:23, 51:108, 52:15, 53:22, 55:122, 56:74, 57:07, 57:93, 57:119, 58:07, 82:01:01:01-82:03 |
| | 250 bp | | *07:20, 07:35, 07:140, 07:153 | *44:54, 44:106, 44:135, 44:158, 44:184, 44:213 |
| | 295 bp | | *07:35 | |
| 20 | 160 bp 205 bp | 1070 bp | *07:59 *07:51, 07:220, 07:226, 07:332 | *08:143, C*07:294, C*07:526:01, C*07:530:01, C*07:681, C*08:08:01- 08:08:02 |
| | 275 bp | | *07:21 | *08:278, 53:46 |
| 21^{4,5} | 100 bp 165 bp | 1070 bp | *07:52 *07:22:01-07:22:02 | |
| 22⁷ | 220 bp | 1070 bp | *07:23 | *18:95, 39:192, C*06:223, C*07:75, C*07:254, C*07:951 |
| 23⁴ | 85 bp | 1070 bp | *07:20, 07:24, 07:131, 07:220, 07:223, 07:358, 07:464 *07:272N | *15:230, 15:297, 40:63, 40:324, 46:87, C*03:260 |
| 24^{4,5} | 270 bp 125 bp | 800 bp | *07:25, 07:39, 07:48:01- 07:48:02, 07:202, 07:209, 07:223, 07:261, 07:407- 07:408, 07:411, 07:420, 07:450 | *08:187, 18:35, 18:110, 27:36, 27:125, 27:164, 35:66, 38:63, 38:169, 40:01:01- 40:01:19, 40:01:21-40:01:84, 40:07, 40:10:01:01-40:10:02, 40:12:01-40:12:02, 40:14:01-40:14:03, 40:21-40:22N, 40:25, 40:30-40:31, 40:33-40:34, 40:36, 40:38, 40:42-40:43, 40:45-40:49, 40:52, 40:54- 40:55, 40:59-40:63, 40:65-40:66, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114:02, 40:116- 40:118N, 40:121, 40:123-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:156, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 40:182, 40:185-40:188, 40:191- 40:197, 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, 40:233-40:238, 40:240-40:242, 40:245:01- 40:245:02, 40:247, 40:249-40:253, |



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| 25⁸ | 305 bp 425 bp | 1070 bp | *07:117 *07:27, 07:236, 07:240 | *38:100, 40:250 *08:126, 08:131, 08:139, 38:17, 40:188? |
| 26⁴ | 95 bp 205 bp 235 bp | 800 bp | *07:28, 07:118 *07:51, 07:220, 07:226, 07:332 *07:20, 07:24, 07:60, 07:100, 07:131, 07:220, 07:223, 07:358, 07:464 | *08:14, 08:87, 27:32, 40:180, 40:414, 44:54, 44:106, 44:135 *08:143, C*07:294, C*07:526:01, C*07:530:01, C*07:681, C*08:08:01-08:08:02 *08:21, 08:25, 08:175, 15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:431, 15:450, 15:524, 15:661, 15:668, 35:05:01:01-35:05:06, 35:22:01:01-35:22:01:02, 35:51:01-35:51:02, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 35:232, 35:368, 35:389, 35:416, 35:427N, 35:440, 35:459N, 35:472, 35:481, 35:498-35:499, 35:509, 35:519, 35:541, 35:572, 40:05:01:01-40:05:02, 40:71, 40:174, 40:496, 41:62, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 51:64, 51:148, 53:14, 53:67, 55:51, 58:18, C*03:05:01:01-03:05:01:03, C*03:25, C*03:27, C*03:167, C*03:296:01-03:296:02, C*03:335, C*03:407, C*03:482, C*03:494, C*03:555 |
| 27 | 290 bp 165 bp 215 bp | 800 bp | *07:42 *07:41 *07:29, 07:186, 07:383 | *08:123, 08:132, C*07:335, C*07:1059 |



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|--------------------------|------------------|---------------|--|--|
| 28 ^{4,7} | 110 bp | 1070 bp | *07:30 | *27:159 |
| 29 ^{4,5} | 85 bp | 800 bp | *07:31:01-07:31:02, 07:34, 07:43 | *08:187, 18:110, 40:199, 40:424, 41:08, 42:05:01-42:05:02, 48:37, C*07:38:01-07:38:02 |
| 30 | 200 bp 190 bp | 800 bp | *07:44N *07:05:01:01-07:06:05, 07:32, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206-07:207, 07:209-07:210, 07:213-07:214, 07:222, 07:249, 07:258, 07:262:01-07:262:02, 07:264, 07:270, 07:278, 07:283, 07:287, 07:293, 07:304, 07:317, 07:324, 07:327, 07:332-07:333, 07:340, 07:349, 07:352-07:353, 07:356-07:357, 07:368, 07:387, 07:389, 07:395, 07:399, 07:407-07:408, 07:426Q, 07:434, 07:443, 07:474, 07:480 | *08:40, 08:79:01-08:79:02, 08:165, 08:171, 08:205, 13:01:01:01-13:01:02, 13:01:04-13:02:16, 13:02:18-13:02:22, 13:02:24-13:02:26, 13:02:28-13:02:40, 13:07N-13:09, 13:11, 13:13:01-13:23, 13:25, 13:27-13:33, 13:36-13:45, 13:47, 13:49N-13:50, 13:52, 13:54-13:61, 13:63N-13:71, 13:73-13:78, 13:80-13:85, 13:87-13:119, 13:123Q-13:125, 13:128-13:130, 13:132-13:145, 13:147-13:157, 13:159-13:163, 13:165-13:173, 13:175-13:180, 18:189, 27:07:01-27:07:06, 27:11, 27:20, 27:24, 27:27, 27:33, 27:43, 27:125, 27:130, 27:164, 27:168, 27:180, 27:187, 27:218-27:219, 27:233, 27:251, 35:31, 35:88, 35:230, 35:534, 38:63, 39:47, 39:50, 39:174, 40:01:01-40:01:20, 40:01:22-40:01:25, 40:01:27, 40:01:29-40:01:31, 40:01:33-40:01:55, 40:01:57-40:02:09, 40:02:11-40:02:12, 40:02:14-40:02:17, 40:02:19-40:02:38, 40:04:01:01-40:04:02, 40:06:01:01-40:06:09, 40:06:11-40:08:01:02, 40:10:01:01-40:16:01:02, 40:19, 40:21-40:23, 40:25, 40:27:01-40:27:03, 40:29-40:30, 40:34-40:38, 40:40, 40:43, 40:45-40:50:01:02, 40:53-40:58, 40:61-40:62, 40:64:01:01-40:70:02, 40:72:01-40:88, 40:90-40:91, 40:93-40:97, 40:99-40:119, 40:121-40:123, 40:125:01-40:130:02, 40:132, 40:134-40:158, 40:160:01-40:162, 40:164-40:171, 40:173, 40:175-40:179, 40:182-40:183, 40:185-40:186:02, 40:188-40:198, 40:200-40:266, 40:268-40:279, 40:281-40:283, 40:285-40:304, 40:306, 40:308-40:323:02, 40:325-40:329, 40:331-40:340, 40:342, 40:344-40:351, 40:353:01:01-40:380, 40:381:02-40:389, 40:391-40:413, 40:415-40:421Q, 40:423, 40:425-40:428N, 40:430-40:457, 40:459-40:495, 40:497, 40:499-40:521, 40:524-40:535, 40:537-40:547, 41:19, 44:31, 48:01:01:01-48:01:14, 48:03:01:01-48:07, 48:09-48:16, 48:18-48:22, 48:24, 48:28-48:36, 48:38-48:45, 48:47-48:58, 51:10, 51:16, 51:31, 51:34, 51:81-51:82, 51:93, 51:352, 52:08, 52:67, 54:26, 55:09, 55:22, 55:24, 56:60, 58:27, 59:09, 78:08, 81:01:01:01-81:10, C*02:68 |
| 31 | 215 bp | 800 bp | *07:55, 07:100, 07:464 | *08:70, 08:281, 15:07:01:01-15:07:03, 15:45, 15:68, 15:126, 15:207, 15:324, |



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| 280 bp | *07:19, 07:33:01-07:33:03, 07:53, 07:60, 07:100, 07:442 | 15:331, 15:405, 15:431, 15:450, 15:524, 15:668, 46:12, 48:19, C*02:60, C*06:264 *08:103, 08:134, 08:175, 08:274, 13:71, 13:108, 14:05, 14:13, 14:53, 15:07:01:01- 15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:421, 15:431, 15:450, 15:524, 15:661, 15:668, 18:14, 27:07:01-27:07:06, 27:11, 27:24, 27:32- 27:34, 27:43, 27:138, 27:180, 27:219, 27:233, 27:251, 35:05:01:01-35:05:06, 35:22:01:01-35:22:01:02, 35:31, 35:51:01- 35:51:02, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 35:232, 35:368, 35:389, 35:416, 35:427N, 35:440, 35:459N, 35:472, 35:481, 35:498-35:499, 35:509, 35:519, 35:541, 35:572, 37:09, 38:19, 39:03:01:01-39:03:02, 39:14:01:01- 39:14:01:03, 39:24:01:01-39:24:03, 39:29, 39:37:01:01-39:37:01:02, 39:76, 39:120, 39:144, 39:152, 39:184-39:185, 40:02:01:01-40:03:02, 40:05:01:01- 40:05:02, 40:08:01:01-40:09, 40:13, 40:18- 40:19, 40:24, 40:27:01-40:27:02, 40:29, 40:35:01-40:35:03, 40:37, 40:39-40:40, 40:50:01:01-40:50:01:02, 40:56-40:58, 40:71, 40:78, 40:82, 40:85, 40:89-40:91, 40:94, 40:97, 40:104-40:105, 40:107, 40:111, 40:115, 40:119, 40:122, 40:133Q, 40:142N-40:145, 40:157, 40:164, 40:169, 40:173-40:174, 40:176, 40:180-40:181, 40:189, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224, 40:226, 40:229, 40:232, 40:246, 40:248, 40:254-40:255, 40:266-40:267, 40:271, 40:274, 40:276, 40:283-40:284, 40:287, 40:289-40:293, 40:296-40:297, 40:302-40:305, 40:309, 40:314, 40:320, 40:322, 40:331, 40:334:01-40:335, 40:337N, 40:345N, 40:347, 40:356, 40:359, 40:369, 40:371, 40:375, 40:378, 40:384, 40:390, 40:399N, 40:405, 40:409- 40:410, 40:412-40:415, 40:420, 40:432, 40:435, 40:437-40:438N, 40:440-40:442, 40:444, 40:455, 40:457, 40:465, 40:467, 40:470, 40:481N, 40:489, 40:493, 40:496, 40:500, 40:504-40:505, 40:511N, 40:514N- 40:515, 40:518, 40:521-40:522, 40:527, 40:529, 40:531, 40:534, 40:536N, 40:540N, 40:544-40:545N, 41:62, 42:08, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 48:04:01:01-48:04:02, 48:13, 48:24, 48:51, 48:53, 51:64, 51:81, 51:148, 53:14, 53:67, 55:04, 55:49, 55:51, 55:86, 55:110, 58:18, 58:27, C*02:60, |
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| | | | | |
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| | | | | <p>C*03:05:01:01-03:05:01:03, C*03:25, C*03:27, C*03:167, C*03:296:01-03:296:02, C*03:335, C*03:386, C*03:407, C*03:482, C*03:494, C*03:555, C*04:443, C*06:264, C*07:526:01, C*07:530:01, C*07:681, C*07:850, C*08:08:01-08:08:02</p> |
| 32 ⁹ | 190 bp | 1070 bp | *07:34 | <p>*08:01:01:01-08:01:22, 08:01:24-08:01:55, 08:01:57-08:01:62, 08:01:64-08:05, 08:08N-08:10, 08:12:01-08:13, 08:15-08:20:02, 08:22-08:24, 08:26:01-08:27, 08:29-08:36, 08:38:01-08:39, 08:41-08:48, 08:50-08:73, 08:75-08:76, 08:78, 08:80-08:86N, 08:88, 08:90-08:106, 08:109-08:110, 08:112-08:124, 08:126-08:155, 08:157-08:163, 08:166-08:170, 08:172-08:174, 08:176-08:185, 08:187-08:199, 08:201-08:204, 08:206-08:226, 08:228-08:244, 08:246-08:250, 08:252N-08:254, 08:256-08:263, 08:265-08:289, 08:292-08:309, 08:311, 13:06, 13:53, 13:131, 14:13, 14:53, 14:96, 15:42, 15:83:01:01-15:83:01:02, 15:86, 15:188, 15:224, 15:252, 15:485, 18:26, 18:61, 18:97, 18:168, 18:191, 35:60, 35:87, 35:276, 35:471, 37:12, 37:84, 38:01:01:01-38:01:01:17, 38:01:03-38:01:05, 38:01:07-38:01:10, 38:01:12-38:02:05, 38:02:07-38:07, 38:09-38:21, 38:23-38:28, 38:31-38:51, 38:53-38:62, 38:64, 38:66-38:69, 38:71-38:87, 38:89-38:92, 38:94-38:95, 38:97-38:105, 38:107-38:111, 38:160-38:167, 38:169, 38:171-38:172, 39:01:01:01-39:01:01:29, 39:01:03:01-39:01:18, 39:01:20-39:01:34, 39:01:36-39:06:08, 39:08-39:14:01:03, 39:16, 39:18-39:20, 39:22-39:24:03, 39:26-39:28, 39:30-39:31:01:02, 39:34-39:37:01:02, 39:39:01-39:39:02, 39:41-39:42, 39:44-39:46, 39:48, 39:51-39:54, 39:56-39:66, 39:68-39:73, 39:75-39:88, 39:90, 39:92-39:95N, 39:97N, 39:99-39:101, 39:103-39:108, 39:110-39:168, 39:170, 39:172-39:173, 39:175N-39:180, 39:182-39:187, 39:189-39:200, 40:39, 40:51, 40:163, 40:184, 40:199, 40:424, 41:01:01:01-41:03:02, 41:05-41:09, 41:11-41:16, 41:20, 41:22-41:48, 41:50, 41:53-41:55, 41:57-41:61, 41:64-41:82, 42:01:01:01-42:02:02, 42:04-42:08, 42:10-42:15, 42:17-42:19, 42:21-42:34, 44:166, 46:18, 48:37, 51:21, 51:36, 51:101, 51:143, 51:153:01-51:153:02, 51:157, 51:280, 51:295, 51:300, 51:340, 51:376, 52:37, 52:71, 52:84, 54:01:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10-54:13, 54:17-54:25, 54:27-54:32, 54:34-54:39,</p> |



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| | | | | |
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| | | | | 54:41-54:46, 55:01:01:01-55:01:18, 55:01:20-55:05, 55:07, 55:10-55:13, 55:15- 55:21, 55:25-55:26, 55:28:01-55:40, 55:42- 55:45, 55:47-55:50, 55:52-55:57, 55:59- 55:67, 55:69-55:109, 55:111-55:133, 56:10, 56:12, 56:23, 56:54, 56:66, 58:20, 59:01:01:01-59:03, 59:05-59:08, 59:10N- 59:11, 67:01:01-67:07, 78:07, C*01:90, C*01:116, C*05:238, C*07:775, C*12:282, C*14:92, C*15:24, C*15:128 |
| 33^{4,5} | 90 bp | 1070 bp | *07:149 | *08:02, 08:117, 08:255, 08:271, 13:36, 14:118, 15:89:01-15:89:02, 15:115, 15:505, 18:09, 38:02:01:01-38:02:06, 38:02:08-38:02:11, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 38:43-38:50, 38:62, 38:64, 38:72, 38:74-38:76, 38:79, 38:82, 38:84-38:85, 38:89, 38:92, 38:97-38:98, 38:103N-38:105, 38:160, 38:162-38:165N, 38:167, 38:172-38:173Q, 44:12, 44:232, 44:263, 44:365, 51:54, 51:78:01-51:78:02, 51:341, 51:371, 53:09, 53:11-53:13, 53:31, 53:36, 53:67, 56:07, 59:08 |
| | 350 bp | | *07:61 | |
| 34 | 155 bp | 1070 bp | *07:62, 07:90 | |
| 35^{4,7} | 105 bp 215 bp | 1070 bp | *07:63 *07:143 | *27:157, 40:166, 42:02:01:01-42:02:02, 42:09, 42:17-42:18, 42:27, 45:06, 54:02, 55:16, 56:35 |
| 36 | 175 bp 250 bp | 1070 bp | *07:167N, 07:201N, 07:285N *07:64 | |
| 37 | 210 bp | 1070 bp | *07:65, 07:206 | *08:26:03, 08:56:03, 15:01:76, 15:32:02, 15:504:03, 18:04:01, 18:98:02, 18:125, 35:03:27, 35:08:05, 35:42:02, 35:185, 39:63, 40:01:11, 40:58, 46:40:01, 56:05:01-56:06, 78:01:01:02-78:01:02, 78:02:02-78:03, 78:07-78:10 |
| 38⁷ | 190 bp 215 bp | 1070 bp | *07:103, 07:113 *07:66 | *08:64 |
| 39^{6,11} | 425 bp | 1070 bp | *07:05:01:01-07:06:05, 07:34, 07:40, 07:53, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123 ^w , 07:137-07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206, 07:209- 07:210, 07:213, 07:222, 07:249, 07:258, 07:262:01- 07:262:02, 07:264, 07:269- 07:270, 07:278, 07:283- 07:284, 07:293, 07:304, 07:317, 07:324, 07:332- 07:333, 07:340, 07:349, 07:352-07:353, 07:356- 07:358, 07:378, 07:387, 07:389, 07:395, 07:399, | *08:123, 08:132, 08:146, 35:463, 39:126, 40:61 ^w , 40:166, 40:513, 42:01:01:01 ^w - 42:02:02 ^w , 42:04 ^w -42:05:02 ^w , 42:07 ^w - 42:08 ^w , 42:10 ^w , 42:12 ^w -42:15 ^w , 42:17 ^w - 42:19 ^w , 42:21 ^w -42:25 ^w , 42:27 ^w -42:31 ^w , 42:33 ^w -42:34 ^w , 54:04, 54:11, 54:42, 55:04, 55:08, 55:17, 55:20, 55:28:01-55:28:02, 55:49, 55:51, 55:81, 55:86, 56:05:01- 56:06, 56:12, 56:15, 56:21, 56:94, 81:01:01:01-81:04N, 81:06-81:10 |



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| | | | | |
|-----------------------|------------------|---------|--|--|
| | | | 07:407-07:408, 07:426Q, 07:434, 07:443, 07:474, 07:480 | |
| 40⁷ | 265 bp | 1070 bp | *07:56:01-07:56:02, 07:72, 07:206 | *08:26:01-08:26:03, 08:56:01-08:56:03, 08:180, 08:239, 14:54, 15:634, 35:516, 38:28, 39:63, 39:135, 40:58 [?] , 40:137 [?] , 40:248 [?] , 40:282 [?] , 40:325 [?] , 40:351 [?] , 40:364 [?] , 40:526 [?] , 41:12, 41:36, 42:21, 42:27, 46:89, 49:03, 49:48, 52:90, 56:68, 58:108, C*16:112 |
| | 395 bp | | *07:83 | |
| 41 | 400 bp 425 bp | 1070 bp | *07:58 *07:156 | *08:191 |
| 42 | 195 bp 225 bp | 1070 bp | *07:67N *07:71 | |
| 43 | 185 bp | 1070 bp | *07:68:01-07:68:03, 07:214, 07:237, 07:262:01- 07:262:02, 07:424 | *15:138, 15:230, 15:241, 15:297, 18:35, 18:110, 35:66, 40:77, 40:87:01-40:87:02, 40:121, 40:158, 40:222, 40:237, 40:368, 40:422, 44:150, 46:87, 48:12, 48:14, 48:26, 48:29 |
| | 270 bp | | *07:272N | |
| 44⁷ | 150 bp | 1070 bp | *07:10, 07:368, 07:428 ^w | *15:594 ^w , 27:75 ^w , 37:60 ^w , 73:01:01:01 ^w - 73:03 ^w |
| 45⁴ | 105 bp | 1070 bp | *07:27, 07:50, 07:453 | *08:04:01-08:04:02, 08:17, 08:54:01- 08:54:02, 08:110, 08:285, 13:97, 14:73, 14:117, 15:03:01:01-15:03:09, 15:03:11, 15:03:13, 15:47:01-15:47:02, 15:54, 15:61- 15:62, 15:64:01-15:64:02, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220:01:01-15:220:04, 15:235, 15:242:01-15:242:02, 15:253, 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, 15:650, 15:654, 18:37:01-18:37:02, 18:125, 27:18, 27:29, 35:361, 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, 39:184, 39:197, 40:12:01- 40:12:02, 40:46, 40:93, 40:430, 42:11, 44:40, 44:44, 44:130, 44:156, 44:210:01- 44:210:02, 48:01:01:01-48:05, 48:07- 48:30, 48:32-48:40, 48:42-48:58, 49:73, 50:75, 52:16, 55:18, 56:44 |
| 46 | 425 bp | 1070 bp | *07:13, 07:15, 07:92, 07:253 ^w , 07:304, 07:463 ^w | *08:15, 14:63, 14:97, 39:27, 39:143, 39:164, 39:166, 39:170, 40:73, 46:89, 48:54, 67:02:01:01-67:02:01:02, 73:01:01:01 ^w -73:03 ^w , C*01:214, C*16:112 |



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| | | | | |
|-------------------------|---------------------------|---------------|---|--|
| 47 | 215 bp | 800 bp | *07:04:01-07:04:02, 07:19, 07:25, 07:146, 07:349 | *08:01:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:14-08:15, 08:17-08:19N, 08:21-08:24, 08:26:01-08:39, 08:41-08:48, 08:50-08:54:02, 08:56:01-08:59:02, 08:61-08:69, 08:71-08:78, 08:80-08:83, 08:85-08:88, 08:90-08:106, 08:108-08:128, 08:130-08:142, 08:144-08:155, 08:157-08:170, 08:172-08:180, 08:182-08:183, 08:185-08:204, 08:206-08:231, 08:233-08:253, 08:256-08:280, 08:282-08:290, 08:292-08:309, 08:311, 35:87, 37:09, 41:02:01:01-41:02:11, 41:04, 41:10-41:11, 41:13, 41:15, 41:18-41:19, 41:23-41:24, 41:27, 41:31, 41:36, 41:38-41:43, 41:45N-41:47, 41:49, 41:51-41:52, 41:55, 41:58, 41:65, 41:68-41:69, 41:71-41:72, 41:74, 41:81-41:82, 42:01:01:01-42:02:02, 42:05:01-42:12, 42:14-42:18, 42:20-42:34, 44:106, 44:158, 44:166, 44:213 |
| 48⁷ | 200 bp 280 bp | 1070 bp | *07:76 *07:77, 07:193 | *40:60, 40:245:01-40:245:02, C*07:38:01-07:38:02 |
| 49⁷ | 200 bp | 1070 bp | *07:82 | *44:129, 51:311 |
| 50⁴ | 75 bp 105 bp 165 bp | 1070 bp | *07:74 *07:175 *07:87 | *08:77, 48:27 *15:126 *08:224 |
| 51 | 335 bp 470 bp | 1070 bp | *07:97, 07:316N, 07:412 *07:93 | *08:114, 38:91, 39:100 *08:39, 38:27 |
| 52⁷ | 290 bp | 800 bp | *07:95 | *40:233 |
| 53⁷ | 235 bp | 800 bp | *07:14:01-07:14:02, 07:17, 07:28, 07:96:01-07:96:02, 07:115, 07:197, 07:225, 07:260, 07:284 | *15:230, 15:297, 27:36, 40:42, 40:60, 40:124:01-40:124:02, 40:172, 40:280, 40:422, 40:498, 44:150, 48:17, 48:26, C*03:260, C*04:77, C*07:38:01-07:38:02 |
| 54⁵ | 160 bp 185 bp | 1070 bp | *07:238 *07:98, 07:167N, 07:201N | |
| 55 | 260 bp | 1070 bp | *07:99, 07:276:01-07:276:02 | |
| 56^{5,7} | 230 bp | 1070 bp | *07:20, 07:24, 07:45, 07:60, 07:100, 07:131, 07:220, 07:223, 07:358, 07:420, 07:464 | *08:21, 08:25, 08:175, 15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:431, 15:450, 15:524, 15:661, 15:668, 35:05:01:01-35:05:06, 35:22:01:01-35:22:01:02, 35:51:01-35:51:02, 35:58, 35:72, 35:89, 35:97, 35:114, 35:199, 35:232, 35:368, 35:389, 35:416, 35:427N, 35:440, 35:459N, 35:472, 35:481, 35:498-35:499, 35:509, 35:519, 35:541, 35:572, 40:05:01:01-40:05:02, 40:71, 40:174, 40:496, 41:62, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 51:64, 51:148, 53:14, 53:67, 55:51, 58:18, C*03:05:01:01-03:05:01:03, C*03:25, C*03:27, C*03:167, |



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|-----------------------|----------------------------|---------------|--|--|
| 57⁷ | 150 bp 215 bp | 1070 bp | *07:109, 07:356 *07:70 | |
| 58⁵ | 245 bp 440 bp | 1070 bp | *07:112 *07:79 | *08:216 |
| 59⁴ | 100 bp | 800 bp | *07:115, 07:182N, 07:246, 07:327, 07:424, 07:473 | *08:69, 08:200, 14:05, 35:440, 38:19, 39:03:01:01-39:03:02, 39:24:01:01- 39:24:03, 39:37:01:01-39:37:01:02, 39:76, 39:120, 39:144, 39:152, 39:182, 39:184- 39:185, 40:71, 40:314, 40:522, 40:540N, 41:18, 42:06, 42:20, 48:07, C*04:443, C*08:08:01-08:08:02 |
| 60 | 190 bp 145 bp | 1070 bp | *07:89, 07:113 *07:73 | *08:64 *27:157, 40:166, 44:90, 44:356, 45:06 |
| 61 | 205 bp 325 bp 420 bp | 1070 bp | *07:88 *07:316N *07:105 | |
| 62 | 415 bp | 800 bp | *07:16, 07:27, 07:37:01- 07:38, 07:50, 07:75:01:01- 07:75:01:02, 07:91, 07:180, 07:207, 07:219, 07:228:01- 07:228:02, 07:306, 07:453 | *08:03, 08:23, 08:54:01-08:54:02, 08:110, 08:133, 08:139, 08:255, 08:271, 08:295, 14:14, 14:18, 14:73, 15:68, 15:634, 35:516, 38:01:01:01-38:02:11, 38:04-38:12, 38:15- 38:25, 38:27-38:40, 38:42-38:111, 38:160- 38:173Q, 39:05:01:01-39:05:05, 39:07- 39:08, 39:11, 39:13:01-39:13:02, 39:20, 39:37:01:01-39:37:01:02, 39:49, 39:55- 39:56, 39:113, 39:118, 39:147N, 39:149, 39:161N, 39:163, 39:165-39:168, 39:170, 39:172, 39:174, 39:186, 39:195, 39:197, 40:01:01-40:01:84, 40:06:16 [?] , 40:07, 40:14:01 [?] -40:14:02 [?] , 40:14:03, 40:15 [?] , 40:16:01:01-40:16:01:02, 40:18 [?] , 40:22N- 40:23, 40:24 [?] -40:25 [?] , 40:27:02 [?] , 40:28 [?] - 40:29 [?] , 40:30-40:33, 40:34 [?] -40:35:02 [?] , 40:36 [?] , 40:38, 40:42, 40:44 [?] -40:47 [?] , 40:48, 40:49 [?] , 40:51-40:52, 40:53 [?] , 40:54-40:55, 40:56 [?] -40:58 [?] , 40:59-40:60, 40:61 [?] -40:63 [?] , 40:65 [?] , 40:67 [?] -40:69 [?] , 40:71 [?] , 40:72:01- 40:74, 40:75 [?] , 40:76-40:77, 40:79-40:80, 40:81 [?] -40:88 [?] , 40:91 [?] -40:93 [?] , 40:95 [?] - 40:96 [?] , 40:98 [?] , 40:100 [?] -40:101 [?] , 40:102, 40:103 [?] -40:109 [?] , 40:112 [?] , 40:113- 40:114:01:02, 40:114:02 [?] -40:116 [?] , 40:117, 40:118N [?] , 40:121 [?] , 40:123 [?] , 40:124:01, 40:124:02 [?] -40:125:01 [?] , 40:125:02-40:126, 40:127 [?] , 40:128, 40:130:01 [?] , 40:130:02, 40:131 [?] -40:137 [?] , 40:138-40:140, 40:141 [?] , 40:145 [?] , 40:146, 40:148 [?] -40:149 [?] , 40:150, 40:151 [?] , 40:152-40:153, 40:154 [?] , 40:155:01N-40:155:02N, 40:156 [?] -40:159 [?] , 40:160:01, 40:160:02 [?] -40:165 [?] , 40:167 [?] , 40:168, 40:169 [?] , 40:170-40:172, 40:173 [?] - 40:174 [?] , 40:175, 40:176 [?] -40:180 [?] , 40:182 [?] , 40:183, 40:184 [?] -40:185 [?] , 40:186:01, |



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| 63⁴ | 65 bp | 1070 bp | *07:94 | *27:267, 55:99, 67:04, C*01:166, C*02:120, C*02:201, C*03:124, C*04:49, C*05:15, C*07:262, C*07:417, C*07:475, C*08:153, C*12:95, C*15:175, C*17:45 |
| | 230 bp | | *07:135N | |
| 64⁶ | 170 bp | 1070 bp | *07:69, 07:85:01-07:85:02, 07:180, 07:306 | *08:65, 08:226, 08:228, 08:295, 14:01:01:01-14:01:07, 14:01:09-14:20, 14:22-14:35, 14:37-14:41N, 14:43-14:47, 14:50-14:53, 14:55-14:56, 14:58-14:72N, 14:74-14:98, 14:100N-14:116, 14:118-14:120, 15:09:01-15:10:08, 15:18:01:01-15:18:10, 15:23, 15:37, 15:51-15:52, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, |



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| 65⁷ | 385 bp 420 bp 450 bp | 1070 bp | *07:54, 07:123 *07:315N *07:111N | *40:513, 45:06 *08:72N, 14:72N |
| 66 | 435 bp | 1070 bp | *07:36, 07:38, 07:81, 07:180, 07:219 | *08:03, 08:52, 08:78, 14:93, 38:01:01:01-38:01:22, 38:05-38:07, 38:09-38:14, 38:16, 38:19-38:22, 38:24-38:28, 38:30-38:34N, 38:36-38:42, 38:51-38:61, 38:63, 38:65-38:71, 38:73, 38:77-38:78, 38:80N-38:81, 38:83N, 38:86-38:88, 38:90-38:91, 38:93-38:96, 38:99-38:102, 38:106-38:111, 38:161, 38:166, 38:168-38:171, 40:109 [?] , 40:117, 40:292 [?] , 40:340 [?] , 40:394, 41:46, 41:60, 44:18:01:01-44:18:01:02, 44:355, 48:18, 49:01:01:01-49:01:24, 49:03-49:14, 49:16-49:61, 49:63-49:69, 49:71-49:81, 52:90, 58:108 |
| 67⁶ | 230 bp | 800 bp | *07:29, 07:72, 07:86, 07:114, 07:352 | *08:01:01:01-08:01:46, 08:01:48-08:05, 08:07-08:56:03, 08:58-08:93, 08:95-08:123, 08:125-08:127, 08:129-08:150, 08:152-08:189:01, 08:190-08:225, 08:227-08:241, 08:243-08:266, 08:268-08:271, 08:273-08:303, 08:305-08:311, 14:11, |



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| 68 | 335 bp 365 bp 415 bp | 1070 bp | *07:148 *07:101 *07:13, 07:15, 07:160, 07:463 ^w | *40:193? *08:193 *08:16, 08:123, 08:145, 42:18, 67:02:01:01-67:02:01:02 |
| 69 ^{5,7} | 130 bp 190 bp 245 bp 465 bp | 1070 bp | *07:136:01-07:136:02 *07:106 *07:108 *07:102 | *40:320 *08:18, 38:79, 39:196, 73:01:01:01-73:03 |
| 70 ⁴ | 125 bp 205 bp | 800 bp | *07:104 *07:114 | |
| 71 ¹⁰ | 245 bp 280 bp 390 bp | 1070 bp | *07:108 *07:107 *07:181N | |
| 72 | 165 bp 235 bp | 1070 bp | *07:13, 07:110 *07:315N | *37:52, 38:11, 48:36, 54:02, 67:02:01:01-67:02:01:02, 81:06, A*26:142, C*02:191, C*03:137, C*03:182, C*03:459, C*03:504, C*07:102^w, C*07:351, C*12:82, C*16:116 |
| 73 ^{4,5} | 85 bp 240 bp | 1070 bp | *07:119, 07:169 *07:49N | *48:34 |
| 74 | 345 bp 425 bp | 1070 bp | *07:120 *07:156, 07:282 | *40:150, 48:45 *40:278 |
| 75 ⁴ | 105 bp 250 bp | 1070 bp | *07:126, 07:175 *07:121 | *15:126 |
| 76 ⁷ | 130 bp 170 bp 285 bp | 1070 bp | *07:136:01-07:136:02 *07:128 *07:122 | *40:320 |
| 77 | 335 bp 405 bp | 800 bp | *07:148 *07:116 | *40:193? |
| 78 ⁴ | 110 bp 160 bp 380 bp 415 bp | 1070 bp | *07:125 *07:231N *07:129 *07:282 | *40:278 |
| 79 ^{4,7} | 65 bp 95 bp | 1070 bp | *07:130 *07:119 | |
| 80 | 405 bp | 1070 bp | *07:161N | |
| 81 | 140 bp | 1070 bp | *07:147, 07:151:01-07:151:02, 07:202, 07:279, 07:411, 07:450 | *15:116, 15:124, 15:507, 15:519, 18:88, 35:509, 40:31, 40:33, 40:52, 40:59, 40:352, 46:06, 46:43, 48:23, 48:46, 57:59, 58:05, C*07:123:01-07:123:02, C*07:173, C*07:294, C*07:626, C*07:725 |
| 82 | 275 bp | 1070 bp | *07:77, 07:163, 07:193, 07:248, 07:276:01-07:276:02 | *40:60, 40:245:01-40:245:02, C*07:38:01-07:38:02 |



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| 83 | 175 bp | 1070 bp | *07:174, 07:202, 07:222, 07:279 | *08:213:01-08:213:02, 27:24, 40:31, 40:45, 40:80, 48:01:01:01-48:01:11, 48:01:13- 48:01:14, 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- 48:56, 48:58, 81:01:01:01-81:10 |
| 84 | 365 bp | 1070 bp | *07:12, 07:14:01-07:14:02, 07:18:01-07:18:02, 07:137, 07:162, 07:235, 07:248, 07:359 | *35:76, 35:463, 35:561, 42:13, 44:90, 44:356, 56:09, 56:11-56:12, 56:60, 83:01, C*03:542 |
| 85⁴ | 110 bp 160 bp | 800 bp | *07:208 *07:238, 07:285N | |
| 86 | 380 bp | 1070 bp | *07:219 | *58:108 |
| 87 | 210 bp 260 bp | 1070 bp | *07:251N *07:218, 07:220 | *08:118, 14:05, 14:13, 14:53, 18:14, 35:519, 40:174, 51:64 |
| 88 | 325 bp | 1070 bp | *07:209, 07:271 | *08:267, 13:97, 15:506, 18:37:01-18:37:02, 18:125, 27:01-27:21:02, 27:23-27:51, 27:53-27:66N, 27:68-27:194, 27:197, 27:199-27:214, 27:216-27:235, 27:237- 27:267, 35:25-35:26, 35:49:01-35:49:02, 35:198, 35:254, 35:361, 37:28, 39:189, 40:46 [?] , 40:93 [?] , 44:40, 44:44, 44:130, 44:156, 44:210:01-44:210:02, 51:267, 52:16, 55:102, 55:107, 55:116, 56:05:01, 58:44, 81:01:01:01-81:01:05, 81:03 [?] - 81:04N [?] , 81:05, 81:06 [?] -81:08 [?] , 81:09- 81:10, 83:01 |
| 89^{5,12} | - | - | 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-B*07 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 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



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Lot-specific information

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 21, 24, 29, 33, 54, 56, 58, 69, 73 and 89 have a tendency giving rise to primer oligomer formation.

⁶Primer mixes 9, 11, 39 and 64 may give rise to a lower yield of HLA-specific PCR product than the other B*07 primer mixes.

⁷Primer mixes 22, 28, 35, 38, 40, 44, 48, 49, 52, 53, 56, 57, 65, 69, 76 and 79 may have tendencies of unspecific amplifications.

⁸Primer mix 25 may give rise to unspecific amplification in B*73 alleles.

⁹Primer mix 32 may give rise to a faint band in many B*14, B*37, C*04, C*05, C*08 and C*18 alleles.

¹⁰Primer mix 71 may give rise to an unspecific amplification product of approx. 900 bp in some HLA-B alleles. This band should be disregarded in the interpretation of HLA-B*07 typings.

¹¹In primer mix 39 the positive control band may be weaker than for other HLA-B*07 primer mixes.

¹²Primer mix 89 contains a negative control, which will amplify the majority of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.

Abbreviations

w: might be weakly amplified.

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



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For *In Vitro* Diagnostic Use

MA123 v02 SSP PI Template

Date: October 2023, Rev. No: 00

101.512-24/03 – including *Taq* polymerase
101.512-24u/03u – without *Taq* polymerase

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Lot No.: **4S5**

Lot-specific information
PRIMER SPECIFICATION

| Well No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Length of spec. | 395 | 285 | 235 | 105 | 220 | 215 | 100 | 160 | 355 | 285 | 130 | 225 |
| PCR product | | | | | | | 215 | 235 | | 420 | 210 | |
| Length of int. pos. control ¹ | 800 | 1070 | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 |
| 5'-primer(s) ² | 44 | 363 | 412 | 540 | 103 | 103 | 97 | 412 | 693 | 44 | 103 | 419 |
| | 5'-ggC ^{3'} | 5'-AgC ^{3'} | 5'-ATg ^{3'} | 5'-Cgg ^{3'} | 5'-CCT ^{3'} | 5'-CCT ^{3'} | 5'-TCg ^{3'} | 5'-ATA ^{3'} | 5'-ggT ^{3'} | 5'-ggC ^{3'} | 5'-CCT ^{3'} | 5'-gTC ^{3'} |
| | | | 412 | | 103 | 103 | 540 | 636 | | 363 | 103 | |
| | | | 5'-ATg ^{3'} | | 5'-CCT ^{3'} | 5'-CCT ^{3'} | 5'-gAC ^{3'} | 5'-CAC ^{3'} | | 5'-Agg ^{3'} | 5'-CCT ^{3'} | |
| | | | | | | | 545 | | | 363 | | |
| | | | | | | | 5'-AgT ^{3'} | | | 5'-Agg ^{3'} | | |
| 3'-primer(s) ³ | 272 | 605 | 605 | 605 | 282 | 277 | 272 | 605 | 916 | 287 | 191 | 605 |
| | 5'-TgT ^{3'} | 5'-gCT ^{3'} | 5'-gCT ^{3'} | 5'-gCT ^{3'} | 5'-gCC ^{3'} | 5'-ggT ^{3'} | 5'-TgT ^{3'} | 5'-gCT ^{3'} | 5'-gAT ^{3'} | 5'-TCC ^{3'} | 5'-CgA ^{3'} | 5'-gCT ^{3'} |
| | | | | | | | 605 | 754 | | 302 | 268 | |
| | | | | | | | 5'-gCT ^{3'} | 5'-AgA ^{3'} | | 5'-ggC ^{3'} | 5'-gAg ^{3'} | |
| | | | | | | | | | | 605 | 272 | |
| | | | | | | | | | | 5'-gCT ^{3'} | 5'-TgC ^{3'} | |
| | | | | | | | | | | | 272 | |
| | | | | | | | | | | | 5'-TgA ^{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. | 85 | 215 | 385 | 205 | 345 | 265 | 205 | 160 | 100 | 220 | 85 | 125 |
| PCR product | 290 | | 420 | 230 | 425 | | 250 | 205 | 165 | | 270 | |
| | | | | | | | 295 | 275 | | | | |
| Length of int. pos. control ¹ | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 800 |
| 5'-primer(s) ² | 355 | 363 | 44 | 103 | 44 | 379 | 363 | 25 | 481 | 142 | 375 | 103 |
| | 5'-TCA ^{3'} | 5'-AgC ^{3'} | 5'-ggC ^{3'} | 5'-CCT ^{3'} | 5'-ggC ^{3'} | 5'-ACC ^{3'} | 5'-AgC ^{3'} | 5'-CCg ^{3'} | 5'-CgA ^{3'} | 5'-TCT ^{3'} | 5'-TgA ^{3'} | 5'-CCT ^{3'} |
| | 560 | 363 | | 103 | | | 409 | 363 | 545 | | 560 | 103 |
| | 5'-CAC ^{3'} | 5'-AgC ^{3'} | | 5'-CCT ^{3'} | | | 5'-ggC ^{3'} | 5'-AgC ^{3'} | 5'-AgT ^{3'} | | 5'-CCT ^{3'} | 5'-CCT ^{3'} |
| | | | | | | | | 636 | | | | 527 |
| | | | | | | | | 5'-CAC ^{3'} | | | | 5'-TgT ^{3'} |
| 3'-primer(s) ³ | 605 | 539 | 259 | 268 | 218 | 605 | 572 | 131 | 605 | 322 | 605 | 191 |
| | 5'-gCT ^{3'} | 5'-TCA ^{3'} | 5'-CTC ^{3'} | 5'-gAg ^{3'} | 5'-gCA ^{3'} | 5'-gCT ^{3'} | 5'-gCg ^{3'} | 5'-ggA ^{3'} | 5'-gCT ^{3'} | 5'-gTg ^{3'} | 5'-gCT ^{3'} | 5'-CgA ^{3'} |
| | | | 287 | 292 | 301 | | 616 | 527 | | | | 605 |
| | | | 5'-TCC ^{3'} | 5'-gTA ^{3'} | 5'-gTC ^{3'} | | 5'-AgA ^{3'} | 5'-CCg ^{3'} | | | | 5'-gCT ^{3'} |
| | | | 302 | 292 | 302 | | | 754 | | | | |
| | | | 5'-ggT ^{3'} | 5'-gTA ^{3'} | 5'-ggT ^{3'} | | | 5'-AgA ^{3'} | | | | |
| | | | | 292 | | | | | | | | |
| | | | | 5'-gTA ^{3'} | | | | | | | | |
| Well No. | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |



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Lot No.: **4S5**

Lot-specific information

| Well No. | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
|---------------------------|-----------|------------|------------|-----------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| Length of spec. | 305 | 95 | 165 | 110 | 85 | 190 | 215 | 190 | 90 | 155 | 105 | 175 |
| PCR product | 425 | 205 | 215 | | 200 | | 280 | | 350 | | 215 | 250 |
| | | 235 | | | | | | | | | | |
| | | 290 | | | | | | | | | | |
| Length of int. | 1070 | 800 | 800 | 1070 | 800 | 800 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 |
| pos. control ¹ | | | | | | | | | | | | |
| 5'-primer(s) ² | 44 | 363 | 97 | 215 | 560 | 412 | 363 | 412 | 261 | 483 | 97 | 363 |
| | 5'-ggC 3' | 5'-AgC 3' | 5'-TCg 3' | 5'-gCC 3' | 5'-CAC 3' | 5'-ATA 3' | 5'-AgC 3' | 5'-ATA 3' | 5'-AAC 3' | 5'-gAA 3' | 5'-TCC 3' | 5'-AgC 3' |
| | | | 148 | | 852 | | | | 756 | 503 | 207 | |
| | | | 5'-TgC 3' | | 5'-CAg 3' | | | | 5'-ACT 3' | 5'-CCg 3' | 5'-gAC 3' | |
| 3'-primer(s) ³ | 181 | 418 | 272 | 282 | 605 | 559 | 538 | 559 | 311 | 605 | 272 | 490 |
| | 5'-gTT 3' | 5'-gTC 3' | 5'-TgT 3' | 5'-gCC 3' | 5'-gCT 3' | 5'-CTC 3' | 5'-CCA 3' | 5'-CgT 3' | 5'-Cgg 3' | 5'-gCT 3' | 5'-TgT 3' | 5'-A.C 3' |
| | 301 | 527 | | | 916 | | 603 | | 970 | | | 502 |
| | 5'-gTC 3' | 5'-CCg 3' | | | 5'-gAC 3' | | 5'-gTC 3' | | 5'-TCT 3' | | | 5'-CTA 3' |
| | | 559 | | | | | | | | | | 570 |
| | | 5'-CAg 3' | | | | | | | | | | 5'-CCg 3' |
| | | 613 | | | | | | | | | | |
| | | 5'-gCT 3' | | | | | | | | | | |
| Well No. | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |

| Well No. | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| Length of spec. | 210 | 190 | 425 | 265 | 400 | 195 | 185 | 150 | 105 | 425 | 215 | 200 |
| PCR product | | 215 | | 395 | 425 | 225 | 270 | | | | | 280 |
| Length of int. | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 |
| pos. control ¹ | | | | | | | | | | | | |
| 5'-primer(s) ² | 141 | 363 | 272 | 44 | 625 | 89 | 375 | 165 | 206 | 44 | 363 | 113 |
| | 5'-ATT 3' | 5'-AgC 3' | 5'-CTA 3' | 5'-ggC 3' | 5'-CCg 3' | 5'-gAC 3' | 5'-TgA 3' | 5'-ACC 3' | 5'-AgA 3' | 5'-ggC 3' | 5'-AgC 3' | 5'-CCA 3' |
| | | | | | 650 | 118 | 463 | | | | | 368 |
| | | | | | 5'-CCT 3' | 5'-C.g 3' | 5'-TgA 3' | | | | | 5'-gTC 3' |
| 3'-primer(s) ³ | 311 | 506 | 412 | 142 | 916 | 272 | 605 | 272 | 272 | 299 | 538 | 272 |
| | 5'-ggT 3' | 5'-Tgg 3' | 5'-gTT 3' | 5'-TgC 3' | 5'-gAC 3' | 5'-TgT 3' | 5'-gCT 3' | 5'-TgC 3' | 5'-Tgg 3' | 5'-TCA 3' | 5'-gTC 3' | 5'-TgT 3' |
| | | 516 | | 272 | | | | | | | | 605 |
| | | 5'-gCg 3' | | 5'-TgA 3' | | | | | | | | 5'-gCT 3' |
| | | 539 | | | | | | | | | | |
| | | 5'-TCT 3' | | | | | | | | | | |
| Well No. | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |



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Lot No.: **4S5**

Lot-specific information

| Well No. | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
|---------------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec. | 200 | 75 | 335 | 290 | 235 | 160 | 260 | 230 | 150 | 245 | 100 | 145 |
| PCR product | | 105 | 470 | | | 185 | | | 215 | 440 | 190 | |
| | | 165 | | | | | | | | | | |
| Length of int. | 1070 | 1070 | 1070 | 800 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 |
| pos. control ¹ | | | | | | | | | | | | |
| 5'-primer(s) ² | 341 | 363 | 44 | 355 | 409 | 363 | 382 | 363 | 98 | 44 | 363 | 167 |
| | 5'-ggg 3' | 5'-AgC 3' | 5'-ggC 3' | 5'-CCT 3' | 5'-ggT 3' | 5'-AgC 3' | 5'-TgA 3' | 5'-AgC 3' | 5'-CTg 3' | 5'-ggC 3' | 5'-AgC 3' | 5'-gCT 3' |
| | | | | | | | 382 | | 161 | | | |
| | | | | | | | 5'-TgC 3' | | 5'-Cgg 3' | | | |
| | | | | | | | 386 | | | | | |
| | | | | | | | 5'-gCA 3' | | | | | |
| 3'-primer(s) ³ | 2 nd I | 398 | 200 | 605 | 605 | 484 | 605 | 544 | 272 | 121 | 419 | 272 |
| | 5'-TCg 3' | 5'-ggC 3' | 5'-..g 3' | 5'-gCT 3' | 5'-gCT 3' | 5'-CgA 3' | 5'-gCT 3' | 5'-ggT 3' | 5'-TgT 3' | 5'-gCC 3' | 5'-CgA 3' | 5'-TgT 3' |
| | | 425 | 221 | | | 502 | | 559 | | 317 | 420 | |
| | | 5'-CgC 3' | 5'-ACC 3' | | | 5'-CTA 3' | | 5'-CAg 3' | | 5'-ggC 3' | 5'-gCT 3' | |
| | | 488 | 343 | | | 513 | | | | | 506 | |
| | | 5'-CCA 3' | 5'-T 3' | | | 5'-TCA 3' | | | | | 5'-Tgg 3' | |
| | | | | | | | | | | | 514 | |
| | | | | | | | | | | | 5'-CTT 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. | 205 | 415 | 65 | 170 | 385 | 435 | 230 | 335 | 130 | 125 | 245 | 165 |
| PCR product | 325 | | 230 | | 420 | | | 365 | 190 | 205 | 280 | 235 |
| | 420 | | | | 450 | | | 415 | 245 | | 390 | |
| | | | | | | | | 465 | | | | |
| Length of int. | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 | 800 | 1070 | 1070 |
| pos. control ¹ | | | | | | | | | | | | |
| 5'-primer(s) ² | 44 | 44 | 256 | 142 | 44 | 44 | 44 | 44 | 44 | 106 | 44 | 103 |
| | 5'-ggC 3' | 5'-ggC 3' | 5'-ACT 3' | 5'-TCT 3' | 5'-ggC 3' | 5'-ggC 3' | 5'-ggC 3' | 5'-ggC 3' | 5'-ggC 3' | 5'-CCA 3' | 5'-ggC 3' | 5'-CCT 3' |
| | | | 363 | | | | | | 363 | 188 | 363 | 103 |
| | | | 5'-AgC 3' | | | | | | 5'-AgC 3' | 5'-Cgg 3' | 5'-AgC 3' | 5'-CCT 3' |
| 3'-primer(s) ³ | 82 | 292 | 282 | 272 | 259 | 309 | 106 | 212 | 119 | 272 | 119 | 226 |
| | 5'-ggC 3' | 5'-gTA 3' | 5'-gCC 3' | 5'-TgC 3' | 5'-CTC 3' | 5'-ATC 3' | 5'-CAT 3' | 5'-gCA 3' | 5'-ggT 3' | 5'-TgT 3' | 5'-ggT 3' | 5'-CAC 3' |
| | 200 | 292 | 553 | | 295 | | | 241 | 341 | | 265 | 295 |
| | 5'-..g 3' | 5'-gTA 3' | 5'-CTA 3' | | 5'-TCA 3' | | | 5'-CgA 3' | 5'-CgT 3' | | 5'-CTA 3' | 5'-TCA 3' |
| | 293 | 292 | | | 327 | | | 289 | 453 | | 603 | |
| | 5'-ggA 3' | 5'-gTA 3' | | | 5'-TTT 3' | | | 5'-AgC 3' | 5'-TCT 3' | | 5'-TTC 3' | |
| | | | | | | | | | 453 | | | |
| | | | | | | | | | 5'-TCC 3' | | | |
| | | | | | | | | | 511 | | | |
| | | | | | | | | | 5'-CCg 3' | | | |
| Well No. | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |



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Lot No.: **4S5**

Lot-specific information

| Well No. | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of spec. | 85 | 345 | 105 | 130 | 335 | 110 | 65 | 405 | 140 | 275 | 175 | 365 |
| PCR product | 240 | 425 | 250 | 170 | 405 | 160 | 95 | | | | | |
| | | | | 285 | | 380 | | | | | | |
| | | | | | | 415 | | | | | | |
| Length of int. | 1070 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 |
| pos. control ¹ | | | | | | | | | | | | |
| 5'-primer(s) ² | 244 | 625 | 363 | 363 | 44 | 206 | 244 | 693 | 412 | 368 | 363 | 272 |
| | 5'-CgC 3' | 5'-CCg 3' | 5'-AgC 3' | 5'-AgC 3' | 5'-ggC 3' | 5'-AgA 3' | 5'-CgC 3' | 5'-ggT 3' | 5'-ATg 3' | 5'-gTC 3' | 5'-AgC 3' | 5'-CTA 3' |
| | 693 | 637 | | 880 | | 637 | 693 | | | 382 | | |
| | 5'-ggT 3' | 5'-ACA 3' | | 5'-CCT 3' | | 5'-ACA 3' | 5'-ggT 3' | | | 5'-TgC 3' | | |
| | | 704 | | | | 671 | | | | 382 | | |
| | | 5'-TgT 3' | | | | 5'-CAg 3' | | | | 5'-TgA 3' | | |
| 3'-primer(s) ³ | 299 | 916 | 425 | 453 | 212 | 277 | 299 | 962 | 512 | 605 | 499 | 353 |
| | 5'-TCT 3' | 5'-gAC 3' | 5'-CgC 3' | 5'-TCT 3' | 5'-gCA 3' | 5'-ggT 3' | 5'-TCT 3' | 5'-CAA 3' | 5'-CCA 3' | 5'-gCT 3' | 5'-ggA 3' | 5'-TgA 3' |
| | 728 | | 427 | 453 | 278 | 324 | 719 | | | | | 353 |
| | 5'-CCT 3' | | 5'-gTT 3' | 5'-TCC 3' | 5'-ggA 3' | 5'-TAC 3' | 5'-AgA 3' | | | | | 5'-TgA 3' |
| | 893 | | 571 | 607 | | 916 | | | | | | |
| | 5'-CCT 3' | | 5'-CCg 3' | 5'-CAC 3' | | 5'-gAC 3' | | | | | | |
| | | | | 916 | | | | | | | | |
| | | | | 5'-gAC 3' | | | | | | | | |
| Well No. | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |

| Well No. | 85 | 86 | 87 | 88 |
|---------------------------|-----------|-----------|-----------|-----------|
| Length of spec. | 110 | 380 | 210 | 325 |
| PCR product | 160 | | 260 | |
| | | | | |
| Length of int. | 800 | 1070 | 1070 | 1070 |
| pos. control ¹ | | | | |
| 5'-primer(s) ² | 363 | 44 | 363 | 49 |
| | 5'-AgC 3' | 5'-ggC 3' | 5'-AgC 3' | 5'-CAg 3' |
| 3'-primer(s) ³ | 430 | 256 | 533 | 204 |
| | 5'-gCT 3' | 5'-CCC 3' | 5'-CT 3' | 5'-TCT 3' |
| | 484 | | 583 | |
| | 5'-CgA 3' | | 5'-gTg 3' | |
| | 490 | | | |
| | 5'-A.C 3' | | | |
| Well No. | 85 | 86 | 87 | 88 |

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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Lot No.: **4S5**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | |
|---|----------------------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*07 SSP subtyping kit² | | | | | | | | | | | | | | | | | | | |
| | | | Prod. No.: | Well | | | | | | | | | | | | | | | |
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | | | | 202357101 | 202019102 | 202019103 | 202019104 | 202019105 | 202019106 | 202019107 | 202019108 | 202019109 | 202019110 | 202019111 | 202019112 | 202019113 | 202357114 | 202019115 | 202019116 |
| | IHC cell line ¹ | B* | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *07:02 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | *52:01 | *73:01 | - | - | - | - | + | - | - | - | - | - | + | - | - | - | - | - |
| 3 | 9011 E4181324 | *52:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *15:10 | *53:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 9009 KAS011 | *37:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + |
| 6 | 9353 SM | *39:01 | *51:01 | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - |
| 7 | 9020 QBL | *18:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + |
| 8 | 9025 DEU | *35:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | 9026 YAR | *38:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + |
| 10 | 9107 LKT3 | *54:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | 9051 PITOUT | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 9052 DBB | *57:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 9025 JESTHOM | *27:05 | | - | - | - | - | + | - | - | - | - | - | + | - | - | - | - | - |
| 14 | 9071 OLGA | *15:01 | *15:20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | 9075 DKB | *40:01 | | - | - | - | - | - | - | - | + | - | + | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | *40:02 | | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - | + |
| 17 | 9282 CTM3953540 | *08:01 | *55:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18 | 9257 32367 | *14:01 | *56:01 | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - |
| 19 | 9038 BM16 | *18:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + |
| 20 | 9059 SLE005 | *40:01 | | - | - | - | - | - | - | - | + | - | + | - | - | - | - | - | - |
| 21 | 9064 AMALA | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | *35:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9124 IHL | *40:02 | *56:02 | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - | + |
| 24 | 9035 JBUSH | *38:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + |
| 25 | 9049 IBW9 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *58:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | 9191 CH1007 | *07:05 | *51:01 | + | + | - | + | + | - | - | + | + | - | - | - | - | - | - | - |
| 28 | 9320 BEL5GB | *44:02 | *44:03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | 9050 MOU | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 9021 RSH | *42:01 | | + | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 31 | 9019 DUCAF | *18:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + |
| 32 | 9297 HAG | *41:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 33 | 9098 MT14B | *40:01 | | - | - | - | - | - | - | - | + | - | + | - | - | - | - | - | - |
| 34 | 9104 DHIF | *38:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + |
| 35 | 9302 SSTO | *44:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | *15:01 | *35:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 37 | 9065 HHKB | *07:02 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - |
| 38 | 9099 LZL | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 39 | 9315 CML | *08:01 | *27:05 | - | - | - | - | + | - | - | - | - | - | + | - | - | - | - | - |
| 40 | 9134 WHONP199 | *13:02 | *46:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41 | 9055 H0301 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 42 | 9066 TAB089 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | 9076 T7526 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 44 | 9057 TEM | *38:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + |
| 45 | 9239 SHJO | *42:01 | *50:01 | + | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 46 | 9013 SCHU | *07:02 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - |
| 47 | 9045 TUBO | *51:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 48 | 9303 TER-ND | *35:01 | *44:03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



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Lot No.: **4S5**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*07 SSP subtyping kit² | | | | | | | | | | | | | | | | | | | |
| | | | Prod. No.: | Well | | | | | | | | | | | | | | | |
| | | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| | IHWC cell line ¹ | B* | | 202019117 | 202019118 | 202019119 | 202019120 | 202019121 | 202019122 | 202019123 | 202019124 | 202019125 | 202019126 | 202019127 | 202019128 | 202019129 | 202019130 | 202019131 | 202019132 |
| 1 | 9001 SA | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | *52:01 | *73:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | 9011 E4181324 | *52:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *15:10 | *53:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 9009 KAS011 | *37:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | 9353 SM | *39:01 | *51:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 7 | 9020 QBL | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 9025 DEU | *35:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | 9026 YAR | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 10 | 9107 LKT3 | *54:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 11 | 9051 PITOUT | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 9052 DBB | *57:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 9025 JESTHOM | *27:05 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | 9071 OLGA | *15:01 | *15:20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | 9075 DKB | *40:01 | | - | - | - | - | - | - | - | + | - | - | - | - | - | + | - | - |
| 16 | 9037 SWEIG007 | *40:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - |
| 17 | 9282 CTM3953540 | *08:01 | *55:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 18 | 9257 32367 | *14:01 | *56:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 9038 BM16 | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 9059 SLE005 | *40:01 | | - | - | - | - | - | - | - | + | - | - | - | - | - | + | - | - |
| 21 | 9064 AMALA | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | *35:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9124 IHL | *40:02 | *56:02 | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - |
| 24 | 9035 JBUSH | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 25 | 9049 IBW9 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *58:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | 9191 CH1007 | *07:05 | *51:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 28 | 9320 BEL5GB | *44:02 | *44:03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | 9050 MOU | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 9021 RSH | *42:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 31 | 9019 DUCAF | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 9297 HAG | *41:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 33 | 9098 MT14B | *40:01 | | - | - | - | - | - | - | - | + | - | - | - | - | - | + | - | - |
| 34 | 9104 DHIF | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 35 | 9302 SSTO | *44:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | *15:01 | *35:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 37 | 9065 HHKB | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 38 | 9099 LZL | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 39 | 9315 CML | *08:01 | *27:05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 40 | 9134 WHONP199 | *13:02 | *46:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 41 | 9055 H0301 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 42 | 9066 TAB089 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | 9076 T7526 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 44 | 9057 TEM | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 45 | 9239 SHJO | *42:01 | *50:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 46 | 9013 SCHU | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 47 | 9045 TUBO | *51:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 48 | 9303 TER-ND | *35:01 | *44:03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



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Lot No.: **4S5**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------------|--|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*07 SSP subtyping kit² | | | | | | | | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | | | | | | | | |
| | | | | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
| | | | | Prod. No.: | 202019133 | 202019134 | 202019135 | 202019136 | 202019137 | 202019138 | 202019139 | 202019140 | 202019141 | 202019142 | 202019143 | 202019144 | 202019145 | 202019146 | 202019147 | 202019148 |
| | IHC cell line¹ | | B* | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | | *52:01 *73:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 3 | 9011 E4181324 | | *52:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | | *15:10 *53:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 9009 KAS011 | | *37:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | 9353 SM | | *39:01 *51:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | 9020 QBL | | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 9025 DEU | | *35:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | 9026 YAR | | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 9107 LKT3 | | *54:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | 9051 PITOUT | | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 9052 DBB | | *57:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 9025 JESTHOM | | *27:05 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | 9071 OLGA | | *15:01 *15:20 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | 9075 DKB | | *40:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | | *40:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | 9282 CTM3953540 | | *08:01 *55:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 18 | 9257 32367 | | *14:01 *56:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 9038 BM16 | | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 9059 SLE005 | | *40:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | 9064 AMALA | | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | | *35:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9124 IHL | | *40:02 *56:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | 9035 JBUSH | | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | 9049 IBW9 | | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | | *58:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | 9191 CH1007 | | *07:05 *51:01 | | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - |
| 28 | 9320 BEL5GB | | *44:02 *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | 9050 MOU | | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 9021 RSH | | *42:01 | | - | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - |
| 31 | 9019 DUCAF | | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 9297 HAG | | *41:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 33 | 9098 MT14B | | *40:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 34 | 9104 DHIF | | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 35 | 9302 SSTO | | *44:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | | *15:01 *35:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 37 | 9065 HHKB | | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 38 | 9099 LZL | | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 39 | 9315 CML | | *08:01 *27:05 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 40 | 9134 WHONP199 | | *13:02 *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41 | 9055 H0301 | | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 42 | 9066 TAB089 | | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | 9076 T7526 | | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 44 | 9057 TEM | | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 45 | 9239 SHJO | | *42:01 *50:01 | | - | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - |
| 46 | 9013 SCHU | | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 47 | 9045 TUBO | | *51:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 48 | 9303 TER-ND | | *35:01 *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



0197

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Lot No.: **4S5**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|-----------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*07 SSP subtyping kit² | | | | | | | | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | | | | | | | | |
| | | | | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | |
| | | | | Prod. No.: | 202019149 | 202019150 | 202019151 | 202019152 | 202019153 | 202019154 | 202019155 | 202019156 | 202019157 | 202019158 | 202019159 | 202019160 | 202019161 | 202019162 | 202019163 | 202019164 |
| IHC cell line¹ | | B* | | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2 | 9280 LK707 | *52:01 | *73:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3 | 9011 E4181324 | *52:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4 | 9275 GU373 | *15:10 | *53:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | |
| 5 | 9009 KAS011 | *37:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6 | 9353 SM | *39:01 | *51:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | |
| 7 | 9020 QBL | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8 | 9025 DEU | *35:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9 | 9026 YAR | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + | |
| 10 | 9107 LKT3 | *54:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 11 | 9051 PITOUT | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 12 | 9052 DBB | *57:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 13 | 9025 JESTHOM | *27:05 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 14 | 9071 OLGA | *15:01 | *15:20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 15 | 9075 DKB | *40:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | |
| 16 | 9037 SWEIG007 | *40:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 17 | 9282 CTM3953540 | *08:01 | *55:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 18 | 9257 32367 | *14:01 | *56:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | |
| 19 | 9038 BM16 | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20 | 9059 SLE005 | *40:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | |
| 21 | 9064 AMALA | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 22 | 9056 KOSE | *35:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 23 | 9124 IHL | *40:02 | *56:02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 24 | 9035 JBUSH | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + | |
| 25 | 9049 IBW9 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | |
| 26 | 9285 WT49 | *58:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 27 | 9191 CH1007 | *07:05 | *51:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 28 | 9320 BEL5GB | *44:02 | *44:03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 29 | 9050 MOU | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 30 | 9021 RSH | *42:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 31 | 9019 DUCAF | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 32 | 9297 HAG | *41:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | |
| 33 | 9098 MT14B | *40:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | |
| 34 | 9104 DHIF | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + | |
| 35 | 9302 SSTO | *44:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 36 | 9024 KT17 | *15:01 | *35:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 37 | 9065 HHKB | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 38 | 9099 LZL | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 39 | 9315 CML | *08:01 | *27:05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 40 | 9134 WHONP199 | *13:02 | *46:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 41 | 9055 H0301 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | |
| 42 | 9066 TAB089 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 43 | 9076 T7526 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 44 | 9057 TEM | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + | |
| 45 | 9239 SHJO | *42:01 | *50:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | |
| 46 | 9013 SCHU | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 47 | 9045 TUBO | *51:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 48 | 9303 TER-ND | *35:01 | *44:03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |



101.512-24/03 – including *Taq* polymerase
101.512-24u/03u – without *Taq* polymerase

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“Instructions for Use” (IFU)

Lot No.: 4S5

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | |
|---|----------------------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*07 SSP subtyping kit ² | | | | | | | | | | | | | | | | | | | |
| | | | Prod. No.: | Well | | | | | | | | | | | | | | | |
| | | | | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| | | | | 202019165 | 202019166 | 202019167 | 202019168 | 202019169 | 202019170 | 202019171 | 202019172 | 202019173 | 202019174 | 202019175 | 202019176 | 202019177 | 202019178 | 202019179 | 202019180 |
| | IHC cell line ¹ | B* | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 2 | 9280 LK707 | *52:01 | *73:01 | - | - | - | - | + | - | - | - | - | - | - | - | - | - | | |
| 3 | 9011 E4181324 | *52:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 4 | 9275 GU373 | *15:10 | *53:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 5 | 9009 KAS011 | *37:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 6 | 9353 SM | *39:01 | *51:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 7 | 9020 QBL | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 8 | 9025 DEU | *35:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 9 | 9026 YAR | *38:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 10 | 9107 LKT3 | *54:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 11 | 9051 PITOUT | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 12 | 9052 DBB | *57:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 13 | 9025 JESTHOM | *27:05 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 14 | 9071 OLGA | *15:01 | *15:20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 15 | 9075 DKB | *40:01 | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | | |
| 16 | 9037 SWEIG007 | *40:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 17 | 9282 CTM3953540 | *08:01 | *55:01 | - | - | + | - | - | - | - | - | - | - | - | - | - | - | | |
| 18 | 9257 32367 | *14:01 | *56:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 19 | 9038 BM16 | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 20 | 9059 SLE005 | *40:01 | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | | |
| 21 | 9064 AMALA | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 22 | 9056 KOSE | *35:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 23 | 9124 IHL | *40:02 | *56:02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 24 | 9035 JBUSH | *38:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 25 | 9049 IBW9 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 26 | 9285 WT49 | *58:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 27 | 9191 CH1007 | *07:05 | *51:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 28 | 9320 BEL5GB | *44:02 | *44:03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 29 | 9050 MOU | *44:03 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 30 | 9021 RSH | *42:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 31 | 9019 DUCAF | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 32 | 9297 HAG | *41:02 | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | | |
| 33 | 9098 MT14B | *40:01 | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | | |
| 34 | 9104 DHIF | *38:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 35 | 9302 SSTO | *44:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 36 | 9024 KT17 | *15:01 | *35:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 37 | 9065 HHKB | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 38 | 9099 LZL | *15:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 39 | 9315 CML | *08:01 | *27:05 | - | - | + | - | - | - | - | - | - | - | - | - | - | - | | |
| 40 | 9134 WHONP199 | *13:02 | *46:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 41 | 9055 H0301 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 42 | 9066 TAB089 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 43 | 9076 T7526 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 44 | 9057 TEM | *38:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 45 | 9239 SHJO | *42:01 | *50:01 | - | - | + | - | - | - | - | - | - | - | - | - | - | - | | |
| 46 | 9013 SCHU | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 47 | 9045 TUBO | *51:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 48 | 9303 TER-ND | *35:01 | *44:03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |



0197

101.512-24/03 – including *Taq* polymerase
 101.512-24u/03u – without *Taq* polymerase

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 “Instructions for Use” (IFU)

Lot No.: **4S5**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | Well | | | | | | | |
|---|-----------------------------------|--|-------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B*07 SSP subtyping kit² | | | | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| | | | Prod. No.: | 202019181 | 202019182 | 202019183 | 202019184 | 202019185 | 202019186 | 202019187 | 202019188 |
| | IHWC cell line¹ | | 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 PTOU | | *44:03 | - | - | - | - | - | - | - | - |
| 12 | 9052 DBB | | *57:01 | - | - | - | - | - | - | - | - |
| 13 | 9025 JESTHOM | | *27:05 | - | - | - | - | - | - | - | + |
| 14 | 9071 OLGA | | *15:01 | *15:20 | - | - | - | - | - | - | - |
| 15 | 9075 DKB | | *40:01 | - | - | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | | *40:02 | - | - | - | - | - | - | - | - |
| 17 | 9282 CTM3953540 | | *08:01 | *55:01 | - | - | - | - | - | - | - |
| 18 | 9257 32367 | | *14:01 | *56:01 | - | - | - | - | - | - | - |
| 19 | 9038 BM16 | | *18:01 | - | - | - | - | - | - | - | - |
| 20 | 9059 SLE005 | | *40:01 | - | - | - | - | - | - | - | - |
| 21 | 9064 AMALA | | *15:01 | - | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | | *35:03 | - | - | - | - | - | - | - | - |
| 23 | 9124 IHL | | *40:02 | *56:02 | - | - | - | - | - | - | - |
| 24 | 9035 JBUSH | | *38:01 | - | - | - | - | - | - | - | - |
| 25 | 9049 IBW9 | | *14:02 | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | | *58:01 | - | - | - | - | - | - | - | - |
| 27 | 9191 CH1007 | | *07:05 | *51:01 | - | - | - | - | - | - | - |
| 28 | 9320 BEL5GB | | *44:02 | *44:03 | - | - | - | - | - | - | - |
| 29 | 9050 MOU | | *44:03 | - | - | - | - | - | - | - | - |
| 30 | 9021 RSH | | *42:01 | - | - | - | - | - | - | - | - |
| 31 | 9019 DUCAF | | *18:01 | - | - | - | - | - | - | - | - |
| 32 | 9297 HAG | | *41:02 | - | - | - | - | - | - | - | - |
| 33 | 9098 MT14B | | *40:01 | - | - | - | - | - | - | - | - |
| 34 | 9104 DHIF | | *38:01 | - | - | - | - | - | - | - | - |
| 35 | 9302 SSTO | | *44:02 | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | | *15:01 | *35:01 | - | - | - | - | - | - | - |
| 37 | 9065 HHKB | | *07:02 | - | - | - | - | - | - | - | - |
| 38 | 9099 LZL | | *15:01 | - | - | - | - | - | - | - | - |
| 39 | 9315 CML | | *08:01 | *27:05 | - | - | - | - | - | - | + |
| 40 | 9134 WHONP199 | | *13:02 | *46:01 | - | - | - | - | - | - | - |
| 41 | 9055 H0301 | | *14:02 | - | - | - | - | - | - | - | - |
| 42 | 9066 TAB089 | | *46:01 | - | - | - | - | - | - | - | - |
| 43 | 9076 T7526 | | *46:01 | - | - | - | - | - | - | - | - |
| 44 | 9057 TEM | | *38:01 | - | - | - | - | - | - | - | - |
| 45 | 9239 SHJO | | *42:01 | *50:01 | - | - | - | - | - | - | - |
| 46 | 9013 SCHU | | *07:02 | - | - | - | - | - | - | - | - |
| 47 | 9045 TUBO | | *51:01 | - | - | - | - | - | - | - | - |
| 48 | 9303 TER-ND | | *35:01 | *44:03 | - | - | - | - | - | - | - |



0197

101.512-24/03 – including *Taq* polymerase
101.512-24u/03u – without *Taq* polymerase

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Lot No.: 4S5

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 7, 12, 13, 15, 17, 18, 20 to 23, 25, 27 to 29, 34, 36, 38, 40 to 43, 48 to 55, 57 to 61, 63, 65, 68, 70 to 82 and 84 to 87 were available.

The specificities of the primers in primer solutions 7, 12, 13, 15, 17, 18, 20, 21, 23, 25, 27, 29, 36, 38, 40, 43, 48, 50 to 53, 57, 59, 60, 63, 68, 70, 72, 73, 75 to 79, 81, 82, 84, 86 and 87 were tested by separately adding additional 5'-primers, or additional 3'-primers respectively. In primer solutions 22, 54, 58, 61, 65, 71, 80 and 85 it was only possible to test the 5'-primers, the 3'-primers were not possible to be tested. In primer solutions 28, 34, 41, 42, 49, 55 and 74 it was only possible to test the 3'-primers, the 5'-primers were not possible to be tested. In primer solutions 2, 3, 21, 23, 27, 29, 35, 43, 48, 57, 63, 70, 73, 76, 78, 79 and 82 one or two 5'-primers were not possible to be tested, and in primer solutions 8, 10, 11, 15 to 17, 19, 20, 24 to 26, 33, 36, 38, 40, 50, 51, 56, 59, 63, 68, 69, 72, 73, 75 to 79 and 87 one, two or three 3'-primers were not possible to be tested. In addition, one or more primers in primer solutions 8, 10, 11, 19, 24, 26, 31, 33 and 69 were tested by separately adding one additional 5'-primer and/or one or two additional 3'-primers accordingly.



0197

For *In Vitro* Diagnostic Use

MA123 v02 SSP PI Template

Date: October 2023, Rev. No: 00

101.512-24/03 – including *Taq* polymerase
101.512-24u/03u – without *Taq* polymerase

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“Instructions for Use” (IFU)

Lot No.: **4S5**

Lot-specific information

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E-mail: orders-se@caredx.com

Web page: www.caredx.com

Distributed by:

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

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Fax: 610-344-7989

E-mail: orders-us@caredx.com

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For *In Vitro* Diagnostic Use

MA123 v02 SSP PI Template

Date: October 2023, Rev. No: 00