

Olerup SSP® HLA-C high resolution for frequent alleles

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| Product number: | 101.707-12 – including <i>Taq</i> polymerase 101.707-12u – without <i>Taq</i> polymerase |
| Lot number: | 95V |
| Expiry date: | 2017-February-01 |
| Number of tests: | 12 |
| Number of wells per test: | 95 + 1 |

CHANGES COMPARED TO THE PREVIOUS HLA-C HIGH RESOLUTION FOR FREQUENT ALLELES LOT (24S):

| Well | 5'-primer | 3'-primer | rationale |
|------|-----------|-----------|---|
| 53 | Modified | - | 5'-primer modified for increased yield of HLA-specific PCR product. |
| 86 | - | Added | 3'-primer modified for increased yield of HLA-specific PCR product. |
| 96 | - | - | Updated negative Control. |

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

C*01:02 to C*18:07N, i.e. all the currently recognized HLA-C alleles, will be amplified by the primers in the HLA-C high resolution for frequent alleles subtyping kit^{1,2}; www.ebi.ac.uk/imgt/hla, 2014-April-14, release 3.16.0.

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

| Alleles | Primer mix | Alleles | Primer mix |
|----------------------------|------------|--|------------|
| C*01:06, 01:11 | 3 | C*05:10, 05:55 | 21 |
| C*01:15, 01:20, 01:60 | 6 | C*06:08, 06:13 | 43 |
| C*02:11, 02:77 | 59 | C*06:15-06:16N | 78, 83 |
| C*02:51, 02:57 | 31 | C*07:22, 07:35 | 56 |
| C*03:06, 03:117 | 36 | C*07:25, 07:32N, 07:137:01, 07:138, 07:352 | 56 |
| C*03:21-03:22Q, 03:116:01 | 18 | C*07:30, 07:40 | 86 |
| C*03:30, 03:50 | 21 | C*07:33N, 07:51, 07:367 | 55 |
| C*03:37:01-03:37:02, 03:46 | 11 | C*07:37, 07:54 | 2 |
| C*04:08-04:09N, 04:30 | 27 | C*07:47-07:48 | 91 |
| C*04:23, 04:31 | 88 | C*12:06, 12:81 | 65 |
| C*04:24-04:25 | 49 | | |

The HLA-C typing kit cannot distinguish the following silent mutations: the C*01:02:01-01:02:17, 01:02:19-01:02:24 and 01:02:26 alleles, the C*01:12:01-01:12:02 alleles, the C*02:02:02:01-02:02:03, 02:02:05-02:02:07, 02:02:09-02:02:11, 02:02:14-02:02:20 and 02:02:22-02:02:26 alleles, the C*02:05:01-02:05:03 alleles, the C*02:27:01-02:27:02

alleles, the C*03:02:01-03:02:07, 03:02:09 and 03:02:11-03:02:12 alleles, the C*03:03:01-03:03:20 and 03:03:23-03:03:25 alleles, the C*03:04:01:01-03:04:14, 03:04:16-03:04:18, 03:04:20-03:04:24, 03:04:28-03:04:29, 03:04:31-03:04:33 and 03:04:35-03:04:46 alleles, the C*03:04:27 and 03:04:30 alleles, the C*03:11:01-03:11:02 alleles, the C*03:37:01-03:37:02 alleles, the C*03:38:01-03:38:02 alleles, the C*03:40:01 and 03:40:03 alleles, the C*04:01:01:01-04:01:02, 04:01:04, 04:01:06, 04:01:08, 04:01:10-04:01:17, 04:01:19-04:01:21, 04:01:24-04:01:25, 04:01:27-04:01:28, 04:01:30-04:01:33, 04:01:35-04:01:42 and 04:01:44-04:01:59 alleles, the C*04:01:05, 04:01:07, 04:01:09, 04:01:18, 04:01:22 and 04:01:26 alleles, the C*04:15:01 and 04:15:03 alleles, the C*05:01:01:01-05:01:11, 05:01:13-05:01:15, 05:01:19-05:01:21, 05:01:23 and 05:01:25-05:01:26 alleles, the C*05:01:16, 05:01:18 and 05:18:02-05:18:03 alleles, the C*05:04:01-05:04:02 alleles, the C*05:64:01-05:64:02 alleles, the C*06:02:01:01-06:02:01:03, 06:02:03-06:02:07, 06:02:09-06:02:11, 06:02:13-06:02:15, 06:02:17-06:02:22 and 06:02:24-06:02:37 alleles, the C*07:01:01:01-07:01:04, 07:01:06-07:01:12, 07:01:14-07:01:24, 07:01:26-07:01:35 and 07:01:37-07:01:43 alleles, the C*07:01:05 and 07:01:36 alleles, the C*07:02:01:01-07:02:08, 07:02:10-07:02:31, 07:02:33-07:02:41 and 07:02:43-07:02:59 alleles, the 07:17:01-07:17:02 alleles, the C*07:04:01-07:04:09 and 07:199:01-07:199:02 alleles, the C*07:27:01-07:27:02 alleles, the C*07:31:01-07:31:02 alleles, the C*07:38:01-07:38:02 alleles, the C*07:76:01-07:76:02 alleles, the C*07:96:01-07:96:02 alleles, the C*07:108:01-07:108:02 alleles, the C*07:141:01-07:141:02 alleles, the C*07:172:01-07:172:02 alleles, the C*08:01:01-08:01:06, 08:01:08-08:01:13 and 08:01:15 alleles, the C*08:02:01:01-08:02:02, 08:02:04-08:02:06 and 08:02:08-08:02:10 alleles, the C*08:03:01-08:03:03 alleles, the C*08:04:01-08:04:03 alleles, the C*12:02:01-12:02:05, 12:02:07 and 12:02:09-12:02:10 alleles, the C*12:02:06 and 12:02:08 alleles, the C*12:03:01:01-12:03:01:02, 12:03:03, 12:03:05-12:03:07, 12:03:11-12:03:12, 12:03:14-12:03:15, 12:03:17-12:03:18, 12:03:21-12:03:22 and 12:03:25-12:03:29 alleles, the C*12:03:02, 12:03:08, 12:03:16 and 12:03:30 alleles, the C*12:10:01-12:10:02 alleles, the C*14:02:01, 14:02:04-14:02:07, 14:02:09 and 14:02:12-14:02:16 alleles, the C*15:02:01-15:02:08, 15:02:11-15:02:16 and 15:02:19 alleles, the C*15:02:10 and 15:02:17 alleles, the C*15:05:01-15:05:08 and 15:05:10 alleles, the C*15:06:01-15:06:03 alleles, the C*15:10:02-15:10:03 alleles, the C*16:01:01, 16:01:03-16:01:04, 16:01:07-16:01:15 and 16:01:18 alleles, the C*16:02:01-16:02:10 and 16:02:12 alleles and the C*17:01:01:01-17:01:03, 17:01:05-17:01:07 and 17:01:09-17:01:10 alleles.

¹Alleles 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>.

²The C*06:76:01 and C*12:04:01 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-C low resolution kit, the HLA-C*06 high resolution kit and/or HLA-C*12 high resolution kit.

The C*06:76:02 and the C*12:04:02, 12:54 and 12:60 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-C low resolution kit and/or HLA-C*12 high resolution kit.