

## **Olerup SSP® HLA-C\*06**

**Product number:** 101.614-12 – including *Taq* polymerase  
 101.614-12u – without *Taq* polymerase

**Lot number:** 2E9

**Expiry date:** 2019-03-01

**Number of tests:** 12

**Number of wells per test:** 56+1

**CHANGES COMPARED TO THE PREVIOUS HLA-C\*06 LOT (35Y):**

| <b>Well</b> | <b>5'-primer</b> | <b>3'-primer</b> | <b>rationale</b>  |
|-------------|------------------|------------------|---|
| 14          | -                | Modified         | 3'-primer modified for increased yield of the C*06:143 allele.  |
| 17          | -                | Moved            | 3'-primer moved to well 56 for decreased tendency of primer oligomer formation.   |
| 22          | -                | Added            | 3'-primer added for the C*06:171N allele.   |
| 27          | -                | Added            | 3'-primer added for the C*06:42:01 allele.  |
| 29          | Added            | -                | 5'-primer added for the C*06:152N allele.   |
| 30          | -                | Added            | 3'-primer added for the C*06:171N allele.   |
| 37          | Added            | -                | 5'-primer added for the C*06:151 allele.  |
| 48          | Added            | Added            | Negative Control moved to well 57, primer pair added for the C*06:106:02 allele.  |
| 49          | New              | New              | New primer pairs added for the C*06:129 and C*06:175N alleles.  |
| 50          | New              | New              | New primer pairs added for the C*06:158 and C*06:175N alleles.  |
| 51          | New              | New              | New primer pair added for the C*06:138 allele.  |
| 52          | New              | New              | New primer pairs added for the C*06:136, C*06:142 and C*06:151 alleles.   |
| 53          | New              | New              | New primer pairs added for the C*06:140 and C*06:152N alleles.  |
| 54          | New              | New              | New primer pair added for the C*06:139 allele.  |
| 55          | New              | New              | New primer pair added for the allelic resolution of the C*06:76:02 allele.  |
| 56          | New              | New              | Primer pair added from well 17 for decreased tendency of primer oligomer formation, 3'-primer modified and 5'-primer exchanged for improved HLA-specific amplification. |
| 57          | -                | -                | Negative Control added from well 48.  |

**THE NUMBER OF WELLS** is increased from 48 to 57 wells.

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**ALLELE COVERAGE:**

C\*06:01 to C\*06:175N, i.e. all the currently recognized HLA-C\*06 alleles, will be amplified by the primers in the HLA-C\*06 SSP kit <sup>1,2</sup>; [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), 2016-April-15, release 3.24.0.

The HLA-C\*06 kit enables separation of the confirmed HLA-C\*06 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. The HLA-C\*06 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The following HLA-C\*06 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

| Alleles          | Primer mix | Alleles                    | Primer mix |
|------------------|------------|----------------------------|------------|
| C*06:07, 06:33   | 7          | C*06:45, 06:111            | 31         |
| C*06:15, 06:116N | 15         | C*06:49N, 06:148           | 37         |
| C*06:16N, 06:21  | 16         | C*06:54, 06:133            | 40         |
| C*06:20, 06:74Q  | 34         | C*06:57, 06:58             | 36         |
| C*06:25, 06:36   | 21         | C*06:66, 06:71             | 32         |
| C*06:27, 06:29   | 20         | C*06:70:01-06:70:02, 06:73 | 38         |

The HLA-C\*06 primer set cannot distinguish the silent mutations in the C\*06:02:01:01-06:02:01:03, C\*06:02:03-06:02:45, the C\*06:04:01-06:04:02, the C\*06:34:01-06:34:02, the C\*06:42:01-06:42:02, the C\*06:43:01-06:43:02, the C\*06:53:01-06:53:02, the C\*06:70:01-06:70:02 alleles, the C\*06:106:01-06:106:02 or the C\*06:127:01-06:127:02 alleles.

<sup>1</sup>Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

<sup>2</sup>The HLA-C\*06 primer set cannot separate the C\*06:127:01-06:127:02 and C\*04:220 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or HLA-C\*04 high resolution kit.

**RESOLUTION IN HLA-C\*06 HOMO- AND HETEROZYGOTES:**

The C\*06:02, 06:02 genotype gives rise to a unique amplification pattern.

**INFLUENCE ON THE INTERPRETATION OF HLA-C\*06 SUBTYPINGS BY NON-HLA-C\*06 ALLELES:**

None frequently occurring.

**MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:**

No comments received.