

Olerup SSP® HLA-C*03

Product number: 101.611-12 – including *Taq* polymerase
 101.611-12u – without *Taq* polymerase

Lot number: 6E9

Expiry date: 2019-07-01

Number of tests: 12

Number of wells per test: 57+1

CHANGES COMPARED TO THE PREVIOUS HLA-C*03 LOT (63Y):

Well	5'-primer	3'-primer	rationale
2	Added	-	5'-primer added for the C*03:02:15 allele.
13	Added	-	5'-primer added for the C*03:02:15 allele.
16	Added	-	5'-primer added for the C*03:105 allele.
18	Added	-	5'-primer added for the C*03:318N allele.
24	-	Modified	3'-primer modified for improved HLA-specific amplification of the C*03:229N allele.
25	Moved	Moved	Primer pairs moved to well 55 and well 57 for improved HLA-specific amplification.
27	-	Added	3'-primer added for the C*03:323N allele.
35	-	Modified	3'-primer modified for improved HLA-specific amplification of the C*03:229N allele, 3'-primer modified for increased yield of the C*03:82 allele.
38	Moved	Moved	Primer pair moved to well 56 for decreased tendency of primer oligomer formation.
41	Moved	Moved	Primer pair moved to well 49 for improved HLA-specific amplification of the C*03:294 allele.
44	-	Modified	3'-primer modified for improved HLA-specific amplification of the C*03:229N allele.
45	-	Added	5'-primer added for the C*03:213 allele.
48	Added	Added	Negative Control moved to well 58, new primer pairs added for the C*03:57:01-03:57:02 alleles.
49	Added	Added	Primer pair added from well 41 for the C*03:294 allele.
50	New	New	New primer pairs added for the C*03:250 and C*03:318N alleles.
51	New	New	New primer pairs added for the C*03:105 and C*03:303 alleles.
52	New	New	New primer pairs added for the C*03:311 and C*03:323N alleles.
53	New	New	New primer pairs added for the C*03:106 and C*03:312 alleles.
54	New	New	New primer pair added for the C*03:316N allele.
55	Added	Added	Primer pairs added from well 25 for improved HLA-specific amplification.
56	Added	Added	Primer pairs added from well 38 for decreased tendency of primer oligomer formation.

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57	Added	Added	Primer pairs added from well 25 for improved HLA-specific amplification.
58	-	-	Negative Control added from well 48.

THE NUMBER OF WELLS is increased from 48 to 58 wells.

ALLELE COVERAGE:

C*03:02 to C*03:324, i.e. all the currently recognized HLA-C*03 alleles, will be amplified by the primers in the HLA-C*03 subtyping kit^{1,2}; www.ebi.ac.uk/imgt/hla, 2016-July-14, release 3.25.0.

The HLA-C*03 kit enables separation of the confirmed HLA- C*03 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*03 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*03 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*03:04:19, 03:265N	12	C*03:49, 03:103	23
C*03:06:01-03:06:02, 03:287	6	C*03:50, 03:122	36
C*03:24, 03:236	19	C*03:56, 03:85	35
C*03:28, 03:90	23	C*03:68, 03:205	41
C*03:37:01-03:37:02, 03:208N	27	C*03:70, 03:78, 03:179	42
C*03:44, 03:123, 03:209	31	C*03:72, 03:219	36

The HLA-C*03 subtyping kit cannot distinguish the following silent mutations: the C*03:02:01-03:02:09 and 03:02:11-03:02:15, the C*03:03:01:01-03:03:11, 03:03:13-03:03:14, 03:03:16-03:03:20, 03:03:22-03:03:28 and 03:03:30-03:03:32, the C*03:03:12, 03:03:15 and 03:03:29, the C*03:04:01:01-03:04:18, 03:04:20-03:04:24, 03:04:27-03:04:51, 03:91:02 and 03:186:01-03:186:02, the C*03:06:01-03:06:02, the C*03:13:01-03:13:02, the 03:37:01-03:37:02, the 03:40:01 and 03:40:03-03:40:04, the C*03:41:01-03:41:02, the C*03:87:01-03:87:02, the 03:116:01-03:116:02 or the 03:184:01-03:184:02 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*03:99 and C*05:107 alleles give rise to identical amplification patterns with the HLA-C*03 subtyping kit. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C*05 subtyping kits.

The C*03:135, C*03:154, 03:260, 03:286 and C*15:43 give rise to identical amplification patterns with the HLA-C*03 subtyping kit. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C*15 subtyping kits.

RESOLUTION IN HLA-C*03 HOMO- AND HETEROZYGOTES:

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Good.

INFLUENCE ON THE INTERPRETATION OF HLA-C*03 SUBTYPINGS BY NON-HLA-C*03 ALLELES:

None frequently occurring.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

No comments received.