

Lot No.: **1H9**

Olerup SSP® HLA-C*12

Product number: 101.624-12 – including *Taq* polymerase
101.624-12u – without *Taq* polymerase
Lot number: 1H9
Expiry date: 2021-08-01
Number of tests: 12
Number of wells per test: 47+1

CHANGES COMPARED TO THE PREVIOUS HLA-C*12 LOT (1F8):

Well	5'-primer	3'-primer	Rationale
3	Added	-	5'-primers added for the C*12:03:47 and C*12:34 alleles.
10	Added	-	5'-primer added for the C*12:03:47 allele.
28	Added	-	5'-primer added for the C*12:232N allele.
29	-	Added	3'-primer added for the C*12:219N allele.
30	Modified, moved	Moved	Primer pair moved to well 46, 5'-primer was modified for improved yield of the C*12:34 allele.
33	-	Added	3'-primer added for the C*12:219N allele.
44	Added	Added	New primer pair added for improved resolution of the C*12:16 allele.
46	Added	Added	Primer pair added from well 30.

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

C*12:02 to C*12:235, i.e. all the currently recognized HLA-C*12 alleles, will be amplified by the primers in the HLA-C*12 SSP kit²; www.ebi.ac.uk/imgt/hla, 2018-July-11¹, release 3.33.0.

The HLA-C*12 kit enables separation of the confirmed HLA-C*12 alleles as listed in the IMGT/HLA database 3.27.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources.

The HLA-C*12 kit also enables identification of null and alternatively expressed alleles.

The following HLA-C*12 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*12:03:09, 12:159	17	C*12:39N, 12:167	25
C*12:06, 12:48, 12:81	6	C*12:45, 12:50	28
C*12:23, 12:203	22	C*12:46N, 12:139	20
C*12:29, 12:38	29	C*12:86, 12:104N	29
C*12:30, 12:36	27	C*12:109, 12:171	34
C*12:32, 12:34	30		

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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 HLA-C*12 primer set cannot separate the C*12:09, C*05:16, C*05:85, C*05:107 and C*16:88 alleles, the C*12:33 and C*16:91 or the C*12:208, C*12:222, C*12:233, C*08:05, C*08:25 and C*16:15:01 alleles. These alleles can be distinguished by the HLA-C low resolution kit and the HLA-C*05, HLA-C*16, or HLA-C*08 kit, respectively.

RESOLUTION IN HLA-C*12 HOMO- AND HETEROZYGOTES:

Good.

INFLUENCE ON THE INTERPRETATION OF HLA-C*12 SUBTYPINGS BY NON-HLA-C*12 ALLELES:

None frequently occurring.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

5'-primer added in well mix 3 for increased yield of the HLA-C*12:34 allele. A 5'-primer was modified in well mix 30 for increased yield of the HLA-C*12:34 allele.