

Olerup SSP® HLA-C*04

Product number: 101.612-12 – including *Taq* polymerase
101.612-12u – without *Taq* polymerase
Lot number: 86S
Expiry date: 2016-May-01
Number of tests: 12
Number of wells per test: 48

CHANGES COMPARED TO THE PREVIOUS HLA-C*04 LOT (60R):

Well	5'-primer	3'-primer	rationale
3	-	Added	3'-primer added for the C*04:01:42 allele.
4	-	Added	3'-primer added for the C*04:03:02 allele.
6	-	Added	3'-primer added for the C*04:112 allele.
15	Added		5'-primer added for the C*04:112 allele.
22	Added	Modified	5'-primers added for the C*04:96 and C*04:140 alleles, 5'-primer added from well 24, 3'-primer modified for improved specificity of amplification.
23	Added		5'-primer added for the C*04:144 allele.
24	Moved	Modified	5'-primer moved to wells 24 and 45 for decreased tendencies of primer oligomer formation, 3'-primer modified to decrease unspecific amplification.
31	Added	-	5'-primer added for the C*04:139 allele.
45	Added	Modified	5'-primer added from well 24, 3'-primer modified to decrease unspecific amplification.
47	Added	Added	Primer pair added for the C*04:146 allele.
48	-	Modified	Exchanged control primer pair, for decreased tendencies of primer oligomer formation, 3'-primer modified for increased yield of HLA-specific PCR product.

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

C*04:01 to C*04:152, i.e. all the currently recognized HLA-C*04 alleles, will be amplified by the primers in the HLA-C*04 kit ^{1,2}; www.ebi.ac.uk/imgt/hla, 2013-July-25, release 3.13.1.

The HLA-C*04 kit enables separation of the confirmed HLA-C*04 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.

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The HLA-C*04 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

¹The HLA-C*04 primer set cannot distinguish the following silent mutations: the C*04:01:01:01-04:01:09, 04:01:11-04:01:22, 04:01:24-04:01:27, 04:01:29-04:01:33 and 04:01:35-04:01:52 alleles, the C*04:01:10 and 04:01:23 alleles, the *04:03:01-04:03:02 alleles, the C*04:04:01-04:04:02 alleles, the C*04:15:01 and 04:15:03 alleles, the C*04:64:01-04:64:02 and the C*04:94:01-04:94:02 alleles.

The C*04:05 and C*04:112 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 6.

The C*04:15:02, C*04:44 and C*04:47 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 20.

The C*04:23, C*04:38 and C*04:39 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

The C*04:25, C*04:40 and C*04:41 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 23.

The C*04:46 and C*04:50 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 27.

The C*04:48 and C*04:75 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 28.

The C*04:54 and C*04:105N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 41.

The C*04:56 and C*04:64:01-04:64:02 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 40.

The C*04:59Q and C*04:78 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 32.

The C*04:61 and C*04:96 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 34.

The C*04:62 and C*04:76 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

The C*04:65 and C*04:72 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 33.

The C*04:67 and C*04:93N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 46.

The C*04:81 and C*04:88N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 43.

The C*04:84 and C*04:106 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 48.

The C*04:114 and 04:146 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 47.

²The HLA-C*04 primer set cannot separate the C*04:03:01-04:03:02 and 02:49 alleles or the C*04:107 and the C*02:12 and 02:55 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C*02 high resolution kit.

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RESOLUTION IN HLA-C*04 HOMO- AND HETEROZYGOTES:

Good.

INFLUENCE ON THE INTERPRETATION OF HLA-C*04 SUBTYPINGS BY NON-HLA-C*04 ALLELES:

None frequently occurring.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

No comments received.