HLA-C\*07 101.615-24/04 – including *Taq* polymerase 101.615-24u/04u – without *Taq* polymerase Lot No.: 2H6

# Olerup SSP® HLA-C\*07

Product number:	101.615-24/04 – including <i>Taq</i> pol.		
	101.615-24u/04u – without <i>Taq</i> pol.		
Lot number:	2H6		
Expiry date:	2023-11-01		
Number of tests:	24 tests – Product No. 101.615-24/24u		
	4 tests – Product No. 101.615-04/04u		
Number of wells per test:	95+1		

### CHANGES COMPARED TO THE PREVIOUS HLA-C\*07 LOT (7E6):

13 Modified - 5'-primer modified for improved yield.   15 - Modified 3'-primer modified for improved yield.   25 - Added 3'-primer added for the C*07:02:01:17N allele.   30 - - Positive control primer pair exchanged for improved HLA-specific amplification.   34 Moved, exchanged 5'-primer moved to primer mixes 71 and 72 and primer pair exchanged for improved HLA-specific amplification.   54 - Added 3'-primer added for the C*07:593N allele.   64 Exchanged - 5'-primer added for the C*07:632Q allele.   65 - Added 3'-primer added for the C*07:632N allele. Positive control primer pair exchange for reduced tendency of primer oligomer formation.   66 - Added 3'-primer added for the C*07:02:01:17N allele.   71 Added - 5'-primer added for the C*07:03:02 allele.   72 Added - 5'-primer added for the C*07:03:02:117N allele.   73 - Added 3'-primer added for the C*07:03:02:01:17N allele.   74 Added - 5'-primer added for the C*07:03:02:01:17N allele.   75 - Added 3'-primer added for th	Well	5'-primer	3'-primer	rationale		
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96 Negative control moved from well 94.	95	Added	Added	Primer pairs added for the C*07:359 and the C*07:533		
	96	-	-	Negative control moved from well 94.		

THE NUMBER OF WELLS was increased to 96.

Lot No.: 2H6

HLA-C\*07

## **ALLELE COVERAGE:**

C\*07:01 to C\*07:634, i.e. all the currently recognized HLA-C\*07 alleles, will be amplified by the primers in the HLA-C\*07 SSP kit<sup>1,2</sup>; www.ebi.ac.uk/imgt/hla, 2018-July-11, release 3.33.0.

The HLA-C\*07 kit enables separation of the confirmed HLA-C\*07 alleles as listed in the IMGT/HLA database 3.26.0. 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\*07 kit also enables identification of null and alternatively expressed alleles.

The following HLA-C\*07 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*07:29:01-07:29:02, 07:347N	71	C*07:120, 07:462	61
C*07:41, 07:447	1	C*07:125, 07:402	54
C*07:51, 07:314:01-07:314:03	19	C*07:132, 07:179	55
C*07:52, 07:337	18	C*07:138, 07:484N	72
C*07:61N, 07:194, 07:368:01- 07:368:02	70	C*07:149, 07:381	68
C*07:74, 07:308	39	C*07:164N, 07:212	58
C*07:78:01-07:78:02, 07:235Q, 07:559	40	C*07:165, 07:180	60
C*07:88, 07:474	41	C*07:166, 07:419	77
C*07:99, 07:183	43	C*07:186, 07:451N	58
C*07:100, 07:161	49	C*07:226, 07:573	86
C*07:104N, 07:119	92	C*07:227N, 07:254	30
C*07:117, 07:126	51	C*07:350N, 07:497	80
C*07:118, 07:203	52		

<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 C\*07:27:01-07:27:02 and 07:556 and the C\*12:181 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-C low resolution kit.

#### INFLUENCE ON THE INTERPRETATION OF HLA-C\*07 SUBTYPINGS BY NON-HLA-C\*07 ALLELES:

None frequently occurring.

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

In primer mix 77, a 3'-primer was added for the C\*07:533 allele. In primer mix 78, a 3'-primer was added for improved yield of the C\*07:68 allele. In primer mix 95, a primer pair was added for the C\*07:359 allele and a primer pair was added for the C\*07:533 allele.