

## Olerup SSP® HLA-B\*15

Product number: 101.516-24/04 – including *Taq* pol.  
101.516-24u/04u – without *Taq* pol.  
Lot number: 93R  
Expiry date: 2015-September-01

### CHANGES COMPARED TO THE PREVIOUS HLA-B\*15 LOT (94N):

Well	5'-primer	3'-primer	rationale
51	-	Added	3'-primer added for the B*15:246N allele.
52	Modified	-	Improved specificity of primer pair.
60	Moved	Moved	Primer pair moved to well 93, for decreased tendencies of primer oligomer formation.
67	Modified	-	Improved specificity of primer pair.
68	Added	Added	Primer pair added for the B*15:247 allele.
73	Moved	Moved	Primer pair moved to well 78, for decreased tendencies of primer oligomer formation.
74	Added	-	5'-primer added for the B*15:262N allele.
78	Added	Added	Primer pair from well 73.
80	Added	Added	Primer added for the B*15:263 allele.
82	-	Added	3'-primer added for the B*15:246N allele.
93	Added	Added	Primer pair added for the B*15:258N allele, Primer pair from well 60.

THE NUMBER OF WELLS is unchanged.

### ALLELE COVERAGE:

B\*15:01 to B\*15:264, i.e. all the currently recognized HLA-B\*15 alleles, will be amplified by the primers in the HLA-B\*15 subtyping kit<sup>1</sup>; [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), 2012-October-14, release 3.10.0.

The HLA-B\*15 kit enables separation of the confirmed HLA- B\*15 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- B\*15 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 B\*15:120 and 15:258N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 93.

The B\*15:142 and 15:147 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 78.

The B\*15:166 and 15:193 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 86.

The B\*15:169 and 15:225 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 87.

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The B\*15:208 and 15:230 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 70.

The HLA-B\*15 subtyping kit cannot distinguish these silent mutations: the B\*15:01:01:01, 15:01:03, 15:01:06-15:01:13, 15:01:15-15:01:16 and 15:01:18-15:01:30 alleles, the B\*15:02:01-15:02:06 alleles, the B\*15:03:01-15:03:02 alleles, the B\*15:05:01-15:05:02 alleles, the B\*15:07:01-15:07:02 alleles, the B\*15:11:01-15:11:02 and 15:11:05 alleles, the B\*15:13:01-15:13:02 alleles, the B\*15:16:01-15:16:03 alleles, the B\*15:17:01:01-15:17:02 alleles, the B\*15:18:01 and 15:18:04-15:18:05 alleles, the B\*15:25:01-15:25:03 alleles, the B\*15:27:01-15:27:03 alleles, the B\*15:38:01-15:38:02 alleles, the B\*15:39:01-15:39:02 alleles, the B\*15:47:01-15:47:02 alleles, the B\*15:64:01-15:64:02 alleles or the B\*15:78:01-15:78:03 alleles.

<sup>1</sup>The B\*15:180 and B\*56:03 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution primer set.

#### **RESOLUTION IN HLA-B\*15 HOMO- AND HETEROZYGOTES:**

The B\*15:01,15:01, genotype gives rise to a unique amplification pattern.

#### **INFLUENCE ON THE INTERPRETATION OF HLA-B\*15 SUBTYPINGS BY NON-HLA-B\*15 ALLELES:**

None frequently occurring.

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

In primer mix 67 the 5'-primer was modified for improved specificity of primer pair.