

101.115-24/03 – including *Taq* polymerase

101.115-24u/03u – without *Taq* polymerase

Lot No.: **7D1**

## Olerup SSP® DRB1\*11

**Product number:** 101.115-24/03 – including *Taq* pol.  
101.115-24u/03u – without *Taq* pol.

**Lot number:** 7D1

**Expiry date:** 2019-01-01

**Number of tests:** 24 tests – Product No. 101.115-24/24u  
3 tests – Product No. 101.115-03/03u

**Number of wells per test:** 47+1

### Changes compared to the previous DRB1\*11 Lot (38X):

Well	5'-primer	3'-primer	rationale
5	-	Added	3'-primer added for the DRB1*11:01:27 allele.
12	Modified	-	5'-primer modified for the DRB1*11:61 allele.
13	-	Modified	3'-primer modified for improved HLA-specific amplification.
15	Added	-	5'-primer added for increased yield of the DRB1*11:66 allele.
27	Added	-	5'-primer added for the DRB1*11:154 allele.
34	-	Added, Modified	3'-primer added for the DRB1*11:169N allele, 3'-primer modified for improved HLA-specific amplification.
36	Exchanged	-	5'-primer exchanged for improved HLA-specific amplification.
37	-	Added	3'-primer added for the DRB1*11:101:02 allele.
39	-	Added	3'-primer added for the DRB1*11:160 allele.
44	-	Exchanged, Added	3'-primer exchanged for increased yield and for improved HLA-specific amplification, 3'-primer added for the DRB1*11:187 allele.
46	-	Exchanged	3'-primer exchanged for decreased primer oligomer formation.
47	New	New	New primer pair for the DRB1*11:193 allele, updated negative control moved to well 47.
48	-	-	Updated negative control added from well 47.

THE NUMBER OF WELLS is increased from 47 to 48.

### ALLELE COVERAGE:

DRB1\*11:01 to DRB1\*11:197, i.e. all the currently recognized DRB1\*11 alleles, will be amplified by the primers in the DRB1\*11 subtyping kit<sup>1</sup>; [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), 2016-January-19, release 3.23.0.

The DRB1\*11 kit enables separation of the confirmed DRB1\*11 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 DRB1\*11 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 DRB1\*11 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
DRB1*11:24, 11:91	16
DRB1*11:61, 11:90	12
DRB1*11:93, 11:154	27
DRB1*11:97, 11:169N	34
DRB1*11:99, 11:128, 11:175	36

The DRB1\*11 subtyping kit cannot distinguish the silent mutations in the DRB1\*11:01:01-11:01:11 and 11:01:13-11:01:27, the DRB1\*11:02:01-11:02:04, the DRB1\*11:03:01-11:03:02, the DRB1\*11:04:01-11:04:03 and 11:04:05-11:04:12, the DRB1\*11:06:01-11:06:03, the DRB1\*11:08:01-11:08:03, the DRB1\*11:10:01-11:10:02, the DRB1\*11:11:01 and 11:11:03, the DRB1\*11:12:01 and 11:12:03, the DRB1\*11:13:01-11:13:02, the DRB1\*11:14:01-11:14:02, the DRB1\*11:19:01-11:19:03, the DRB1\*11:23:01-11:23:02, the DRB1\*11:27:01-11:27:03, the DRB1\*11:28:01-11:28:02, the DRB1\*11:37:01-11:37:02, the DRB1\*11:49:01-11:49:02, the DRB1\*11:54:01-11:54:02, the DRB1\*11:58:01-11:58:02, the DRB1\*11:65:01-11:65:02, the DRB1\*11:74:01-11:74:02, the DRB1\*11:84:01-11:84:03, the DRB1\*11:101:01-11:101:02, the DRB1\*11:102:01-11:102:02 or the DRB1\*11:103:01-11:103:02 alleles.

<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>.

#### RESOLUTION IN DRB1\*11 HOMOZYGOTES:

Good.

#### INFLUENCE ON THE INTERPRETATION OF DRB1\*11 SUBTYPINGS BY NON-DRB1\*11 ALLELES:

Most frequently encountered DRB1\*03,11; DRB1\*11,13 and DRB1\*11,14 genotypes give rise to unique amplification patterns except for the DRB1\*11:01,14:01 genotype, which gives an identical pattern as the DRB1\*11:29,14:01 genotype.

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

In primer mix 12, one 5'-primer was modified for the DRB1\*11:61 allele.

In primer mix 15, one 5'-primer was added for increased yield of the DRB1\*11:66 allele.