

**Olerup SSP® DRB1\*14**

<b>Product number:</b>	101.117-12u/03u – without <i>Taq</i> pol.
<b>Lot number:</b>	76K
<b>Expiry date:</b>	2013-May-01
<b>Number of tests:</b>	12 tests – Product No. 101.117-12u 3 tests – Product No. 101.117-03u
<b>Number of wells per test:</b>	48
<b>Storage - pre-aliquoted primers:</b>	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

**This Product Description is only valid for Lot No. 76K.**

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® DRB1\*14 LOT**

The DRB1\*14 specificity and interpretation tables have been updated for the DRB1 alleles reported since the previous *Olerup SSP® DRB1\*14* lot (**Lot No. 43G**) was made.

Three wells have been added to the DRB1\*14 kit,  
**wells 46 to 48.**

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

Well	5'-primer	3'-primer	rationale
3	-	-	Exchanged positive control primer pair.
13	-	Modified	Modified 3'-primer to improve specificity.
20	Moved	-	Primer pair moved to well 47, exchanged positive control primer pair.
24	-	Added	Primer added for the *14:90 allele.
26	Moved	Moved	Primer pair moved to well 48.
28	-	Added	Primer added for the *14:88 allele.
29	-	Added	Primer added for the *14:97 allele.
38	Exchanged	Exchanged	New primer pair for the *14:37 and 14:100 alleles.
41	-	Added	Primers added for the *14:90, 14:91 and 14:97 alleles.
43	-	Added	Primers added for the *14:82 and 14:95 alleles.

**DRB1\*14**

**101.117-12u/03u – without Taq polymerase**

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**General "Instructions for Use"**

IFU-02 Rev. No. 02 can be downloaded from

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**Lot-specific information**

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46	New	New	New primer pairs for the *14:87, 14:88, 14:89 and 14:92N alleles.
47	Added	Added	Primer pair from well 20.
48	Added	Added	Primer pair from well 26, new primer for the *14:98 allele.

December 2010  
Rev. No.: 00u



For *In Vitro* Diagnostic Use.

**DRB1\*14**

**101.117-12u/03u – without Taq polymerase**

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**Product Insert**

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**General “Instructions for Use”**

IFU-02 Rev. No. 02 can be downloaded from

**Lot-specific information**

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December 2010  
Rev. No.: 00u



For *In Vitro* Diagnostic Use.

## PRODUCT DESCRIPTION

### DRB1\*14 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1\*14:01 to DRB1\*14:100 alleles.

#### PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

The 48 well cut PCR plate is marked with 'DRB1\*14' in silver/gray ink.

Well No. 1 is marked with the Lot No. '76K'.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

**Please note:** When removing each 48 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

#### INTERPRETATION

The interpretation of DRB1\*14 PCR-SSP subtypings will be influenced by nine DRB1\*01, the DRB1\*03, nine DRB1\*04, most DRB1\*08, most DRB1\*11, all DRB1\*12, all DRB1\*13, six DRB1\*15 alleles and the DRB1\*16:08 allele, when present on the other haplotype. In addition, the DRB3\*01:14 allele will be amplified by primer mixes 5, 18, 22, 24, 28 and 29, and the DRB3\*02:16 allele will be amplified by primer mix 25.

#### UNIQUELY IDENTIFIED ALLELES

All the phenotypically different DRB1\*14 alleles, i.e. **DRB1\*14:01 to DRB1\*14:100**, recognized by the HLA Nomenclature Committee in October 2010<sup>1</sup> will give rise to unique amplification patterns by the primers in the DRB1\*14 subtyping kit.

The DRB1\*14 subtyping kit cannot distinguish the DRB1\*14:01:01-14:01:03 alleles, the DRB1\*14:03:01 and 14:03:02 alleles, the DRB1\*14:05:01 and 14:05:02 alleles, the DRB1\*14:06:01 and 14:06:02 alleles, the DRB1\*14:07:01 and 14:07:02 alleles, the DRB1\*14:12:01 and 14:12:02 alleles, the DRB1\*14:23:01-14:23:03 alleles or the DRB1\*14:32:01 and 14:32:02 alleles.

<sup>1</sup>DRB alleles listed on the IMGT/HLA web page 2010-October-15, release 3.2.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

# RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 111 alleles generate 101 amplification patterns that can be combined in 5151 homozygous and heterozygous combinations. 998 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

++++++- -+-+-+ -+-+ +----- \*14:38, \*14:48 = \*14:47, \*14:60  
++++++- -+-+-+ -+-+ +----- \*14:02, \*14:88 = \*14:47, \*14:88 = \*14:47, \*14:92N  
++++++- -+-+-+ -+-+ +----- \*14:02, \*14:38 = \*14:38, \*14:47 = \*14:47, \*14:54  
++++++- -+-+-+ -+-+ +----- \*14:02, \*14:97 = \*14:48, \*14:75 = \*14:48, \*14:97  
++++++- -+-+-+ -+-+ +----- \*14:02, \*14:60 = \*14:48, \*14:54 = \*14:48, \*14:60  
++++++- -+-+-+ -+-+ +----- \*14:51, \*14:87 = \*14:51, \*14:92N  
++++++- -+-+-+ -+-+ +----- \*14:06:01, \*14:99 = \*14:29, \*14:54 = \*14:29, \*14:99  
++++++- -+-+-+ -+-+ +----- \*14:21, \*14:54 = \*14:21, \*14:70  
++++++- -+-+-+ -+-+ +----- \*14:33, \*14:87 = \*14:33, \*14:92N  
++++++- -+-+-+ -+-+ +----- \*14:33, \*14:54 = \*14:33, \*14:70  
++++++- -+-+-+ -+-+ +----- \*14:17, \*14:54 = \*14:17, \*14:70  
++++++- -+-+-+ -+-+ +----- \*14:54, \*14:80 = \*14:70, \*14:80  
++++++- -+-+-+ -+-+ +----- \*14:40, \*14:90 = \*14:75, \*14:77 = \*14:77, \*14:90  
++++++- -+-+-+ -+-+ +----- \*14:26, \*14:40 = \*14:26, \*14:77 = \*14:54, \*14:77  
++++++- -+-+-+ -+-+ +----- \*14:03:01, \*14:88 = \*14:38, \*14:89 = \*14:88, \*14:89  
++++++- -+-+-+ -+-+ +----- \*14:03:01, \*14:92N = \*14:54, \*14:89 = \*14:89, \*14:92N  
++++++- -+-+-+ -+-+ +----- \*14:41, \*14:55 = \*14:55, \*14:77  
++++++- -+-+-+ -+-+ +----- \*14:40, \*14:87 = \*14:55, \*14:89  
++++++- -+-+-+ -+-+ +----- \*14:03:01, \*14:55 = \*14:40, \*14:55  
++++++- -+-+-+ -+-+ +----- \*14:03:01, \*14:87 = \*14:87, \*14:89  
++++++- -+-+-+ -+-+ +----- \*14:05:01, \*14:49 = \*14:49, \*14:56  
++++++- -+-+-+ -+-+ +----- \*14:05:03, \*14:49 = \*14:49, \*14:62  
++++++- -+-+-+ -+-+ +----- \*14:08, \*14:49 = \*14:23:01, \*14:49  
++++++- -+-+-+ -+-+ +----- \*14:26, \*14:94 = \*14:41, \*14:75 = \*14:41, \*14:90 = \*14:90,  
\*14:94  
++++++- -+-+-+ -+-+ +----- \*14:26, \*14:41 = \*14:41, \*14:54  
++++++- -+-+-+ -+-+ +----- \*14:88, \*14:98 = \*14:92N, \*14:98  
++++++- -+-+-+ -+-+ +----- \*14:38, \*14:98 = \*14:54, \*14:98  
++++++- -+-+-+ -+-+ +----- \*14:60, \*14:94 = \*14:94, \*14:97  
++++++- -+-+-+ -+-+ +----- \*14:54, \*14:94 = \*14:75, \*14:94  
++++++- -+-+-+ -+-+ +----- \*14:14, \*14:49 = \*14:44:01, \*14:49  
++++++- -+-+-+ -+-+ +----- \*14:07:01, \*14:49 = \*14:44:02, \*14:49  
++++++- -+-+-+ -+-+ +----- \*14:54, \*14:78 = \*14:62, \*14:78  
++++++- -+-+-+ -+-+ +----- \*14:12:01, \*14:55 = \*14:55, \*14:81  
++++++- -+-+-+ -+-+ +----- \*14:18, \*14:32:01 = \*14:18, \*14:74  
++++++- -+-+-+ -+-+ +----- \*14:32:01, \*14:81 = \*14:74, \*14:81  
++++++- -+-+-+ -+-+ +----- \*14:18, \*14:87 = \*14:18, \*14:92N  
++++++- -+-+-+ -+-+ +----- \*14:20, \*14:70 = \*14:70, \*14:81  
++++++- -+-+-+ -+-+ +----- \*14:07:01, \*14:55 = \*14:44:02, \*14:55  
++++++- -+-+-+ -+-+ +----- \*14:05:01, \*14:22 = \*14:22, \*14:56  
++++++- -+-+-+ -+-+ +----- \*14:05:03, \*14:22 = \*14:22, \*14:62  
++++++- -+-+-+ -+-+ +----- \*14:05:01, \*14:53 = \*14:53, \*14:56  
++++++- -+-+-+ -+-+ +----- \*14:05:01, \*14:25 = \*14:25, \*14:56  
++++++- -+-+-+ -+-+ +----- \*14:05:01, \*14:69 = \*14:56, \*14:69  
++++++- -+-+-+ -+-+ +----- \*14:05:01, \*14:07:01 = \*14:07:01, \*14:56 = \*14:44:01, \*14:62  
++++++- -+-+-+ -+-+ +----- \*14:05:03, \*14:07:01 = \*14:07:01, \*14:62 = \*14:44:02, \*14:62  
++++++- -+-+-+ -+-+ +----- \*14:07:01, \*14:39 = \*14:39, \*14:44:02  
++++++- -+-+-+ -+-+ +----- \*14:08, \*14:53 = \*14:25, \*14:72  
++++++- -+-+-+ -+-+ +----- \*14:08, \*14:22 = \*14:22, \*14:23:01  
++++++- -+-+-+ -+-+ +----- \*14:25, \*14:35 = \*14:53, \*14:54  
++++++- -+-+-+ -+-+ +----- \*14:22, \*14:58 = \*14:25, \*14:54  
++++++- -+-+-+ -+-+ +----- \*14:32:01, \*14:42 = \*14:42, \*14:74  
++++++- -+-+-+ -+-+ +----- \*14:32:01, \*14:36 = \*14:36, \*14:74  
++++++- -+-+-+ -+-+ +----- \*14:07:01, \*14:34 = \*14:32:01, \*14:44:01 = \*14:44:01, \*14:74  
++++++- -+-+-+ -+-+ +----- \*14:14, \*14:32:01 = \*14:14, \*14:74  
++++++- -+-+-+ -+-+ +----- \*14:07:01, \*14:16 = \*14:16, \*14:44:02

Lot No.: 76K

## Lot-specific information

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+++++ -++++ -++++ +---- +---- ----- \*14:07:01, \*14:32:01 = \*14:07:01, \*14:74 = \*14:32:01, \*14:44:02 = \*14:44:02, \*14:74  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:99 = \*14:44:02, \*14:99  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:72 = \*14:35, \*14:44:01  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:42, \*14:87 = \*14:42, \*14:92N  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:14, \*14:90 = \*14:36, \*14:75 = \*14:36, \*14:90  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:36, \*14:87 = \*14:36, \*14:92N  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:14, \*14:26 = \*14:26, \*14:36 = \*14:36, \*14:54  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:44:01, \*14:87 = \*14:44:01, \*14:92N  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:08 = \*14:07:01, \*14:23:01 = \*14:44:01, \*14:54  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:14, \*14:87 = \*14:14, \*14:92N  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:35 = \*14:35, \*14:44:02  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:90 = \*14:44:02, \*14:90  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:26 = \*14:26, \*14:44:02  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:01:01, \*14:07:01 = \*14:01:01, \*14:44:02  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:88 = \*14:44:02, \*14:88  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:38 = \*14:38, \*14:44:02  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:97 = \*14:44:02, \*14:97  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:60 = \*14:44:02, \*14:60  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:70 = \*14:44:02, \*14:70  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:75 = \*14:44:02, \*14:75  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:82 = \*14:44:02, \*14:82  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:86 = \*14:44:02, \*14:86  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:87 = \*14:07:01, \*14:92N = \*14:44:02, \*14:87 = \*14:44:02, \*14:92N  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:54 = \*14:44:02, \*14:54  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:76 = \*14:07:01, \*14:79  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:14, \*14:22 = \*14:22, \*14:44:01  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:22 = \*14:22, \*14:44:02  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:14, \*14:53 = \*14:44:01, \*14:53  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:14, \*14:25 = \*14:25, \*14:44:01  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:14, \*14:69 = \*14:44:01, \*14:69  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:14 = \*14:07:01, \*14:44:01  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:07:01, \*14:07:01 = \*14:07:01, \*14:44:02  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:55, \*14:76 = \*14:55, \*14:79  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:05:03, \*14:55 = \*14:54, \*14:84 = \*14:55, \*14:62 = \*14:62, \*14:84  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:10, \*14:55 = \*14:55, \*14:57  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:16, \*14:55 = \*14:32:01, \*14:55 = \*14:55, \*14:74  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:08, \*14:55 = \*14:23:01, \*14:55  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:62, \*14:76 = \*14:62, \*14:79  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:39, \*14:76 = \*14:39, \*14:79  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:31, \*14:54 = \*14:31, \*14:58  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:04, \*14:32:01 = \*14:31, \*14:32:01  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:32:01, \*14:76 = \*14:32:01, \*14:79  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:54, \*14:73 = \*14:58, \*14:73  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:28, \*14:38 = \*14:50, \*14:99  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:04, \*14:99 = \*14:28, \*14:54 = \*14:28, \*14:58 = \*14:28, \*14:99  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:76, \*14:99 = \*14:79, \*14:99  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:76, \*14:90 = \*14:79, \*14:90  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:26, \*14:76 = \*14:26, \*14:79  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:54, \*14:93 = \*14:58, \*14:93  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:54, \*14:68 = \*14:58, \*14:68  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:01:01, \*14:76 = \*14:01:01, \*14:79  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:04, \*14:88 = \*14:50, \*14:88 = \*14:50, \*14:92N  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:04, \*14:38 = \*14:38, \*14:50 = \*14:50, \*14:54 = \*14:50, \*14:58  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:76, \*14:88 = \*14:79, \*14:88  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:38, \*14:76 = \*14:38, \*14:79  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:76, \*14:97 = \*14:79, \*14:97  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:60, \*14:76 = \*14:60, \*14:79  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:54, \*14:71 = \*14:58, \*14:71  
 +++--- -+++--- -+++--- +---- +---- ----- \*14:04, \*14:54 = \*14:04, \*14:58

Lot No.: 76K

## Lot-specific information

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++++++- -++++- -+----- +----- +-----	*14:75, *14:76 = *14:75, *14:79
++++++- -++++- -+----- +----- +-----	*14:76, *14:82 = *14:79, *14:82
++++++- -++++- -+----- +----- +-----	*14:76, *14:86 = *14:79, *14:86
++++++- -++++- -+----- +----- +-----	*14:76, *14:92N = *14:79, *14:92N
++++++- -++++- -+----- +----- +-----	*14:54, *14:76 = *14:54, *14:79 = *14:58, *14:79
++++++- -++++- -+----- +----- +-----	*14:35, *14:76 = *14:35, *14:79
++++++- -++++- -+----- +----- +-----	*14:70, *14:76 = *14:70, *14:79
++++++- -++++- -+----- +----- +-----	*14:76, *14:87 = *14:79, *14:87
++++++- -+----- +----- +----- +-----	*14:05:03, *14:39 = *14:10, *14:62 = *14:39, *14:62
++++++- -+----- +----- +----- +-----	*14:32:01, *14:43 = *14:43, *14:74
++++++- -+----- +----- +----- +-----	*14:32:01, *14:56 = *14:56, *14:74
++++++- -+----- +----- +----- +-----	*14:32:01, *14:91 = *14:74, *14:91
++++++- -+----- +----- +----- +-----	*14:32:01, *14:96 = *14:74, *14:96
++++++- -+----- +----- +----- +-----	*14:32:01, *14:45 = *14:45, *14:74
++++++- -+----- +----- +----- +-----	*14:05:01, *14:32:01 = *14:05:01, *14:74 = *14:34, *14:62
++++++- -+----- +----- +----- +-----	*14:05:03, *14:16 = *14:16, *14:62
++++++- -+----- +----- +----- +-----	*14:05:03, *14:32:01 = *14:05:03, *14:74 = *14:32:01, *14:62 = *14:62, *14:74
++++++- -+----- +----- +----- +-----	*14:32:01, *14:100 = *14:74, *14:100
++++++- -+----- +----- +----- +-----	*14:32:01, *14:65 = *14:65, *14:74
++++++- -+----- +----- +----- +-----	*14:05:03, *14:99 = *14:62, *14:99
++++++- -+----- +----- +----- +-----	*14:43, *14:87 = *14:43, *14:92N
++++++- -+----- +----- +----- +-----	*14:43, *14:54 = *14:43, *14:62
++++++- -+----- +----- +----- +-----	*14:05:01, *14:35 = *14:62, *14:72
++++++- -+----- +----- +----- +-----	*14:05:01, *14:90 = *14:26, *14:91 = *14:90, *14:91
++++++- -+----- +----- +----- +-----	*14:56, *14:87 = *14:56, *14:92N
++++++- -+----- +----- +----- +-----	*14:54, *14:56 = *14:56, *14:62
++++++- -+----- +----- +----- +-----	*14:05:01, *14:97 = *14:60, *14:91 = *14:91, *14:97
++++++- -+----- +----- +----- +-----	*14:54, *14:100 = *14:62, *14:100
++++++- -+----- +----- +----- +-----	*14:75, *14:96 = *14:86, *14:91
++++++- -+----- +----- +----- +-----	*14:87, *14:91 = *14:91, *14:92N
++++++- -+----- +----- +----- +-----	*14:05:01, *14:75 = *14:54, *14:91 = *14:62, *14:91 = *14:75, *14:91
++++++- -+----- +----- +----- +-----	*14:87, *14:96 = *14:92N, *14:96
++++++- -+----- +----- +----- +-----	*14:05:01, *14:86 = *14:54, *14:96 = *14:62, *14:96 = *14:86, *14:96
++++++- -+----- +----- +----- +-----	*14:45, *14:87 = *14:45, *14:92N
++++++- -+----- +----- +----- +-----	*14:05:01, *14:87 = *14:05:01, *14:92N
++++++- -+----- +----- +----- +-----	*14:45, *14:54 = *14:45, *14:62
++++++- -+----- +----- +----- +-----	*14:05:01, *14:54 = *14:05:01, *14:62 = *14:08, *14:62 = *14:23:01, *14:62
++++++- -+----- +----- +----- +-----	*14:54, *14:65 = *14:62, *14:65
++++++- -+----- +----- +----- +-----	*14:37, *14:54 = *14:37, *14:62
++++++- -+----- +----- +----- +-----	*14:05:03, *14:35 = *14:35, *14:62
++++++- -+----- +----- +----- +-----	*14:05:03, *14:90 = *14:62, *14:90
++++++- -+----- +----- +----- +-----	*14:05:03, *14:26 = *14:26, *14:62
++++++- -+----- +----- +----- +-----	*14:01:01, *14:05:03 = *14:01:01, *14:62
++++++- -+----- +----- +----- +-----	*14:05:03, *14:88 = *14:62, *14:88
++++++- -+----- +----- +----- +-----	*14:05:03, *14:38 = *14:38, *14:62
++++++- -+----- +----- +----- +-----	*14:05:03, *14:97 = *14:62, *14:97
++++++- -+----- +----- +----- +-----	*14:05:03, *14:60 = *14:60, *14:62
++++++- -+----- +----- +----- +-----	*14:05:03, *14:70 = *14:62, *14:70
++++++- -+----- +----- +----- +-----	*14:05:03, *14:75 = *14:62, *14:75
++++++- -+----- +----- +----- +-----	*14:05:03, *14:82 = *14:62, *14:82
++++++- -+----- +----- +----- +-----	*14:05:03, *14:86 = *14:62, *14:86
++++++- -+----- +----- +----- +-----	*14:05:03, *14:87 = *14:05:03, *14:92N = *14:62, *14:87 = *14:62, *14:92N
++++++- -+----- +----- +----- +-----	*14:05:03, *14:54 = *14:05:03, *14:62 = *14:54, *14:62 = *14:62, *14:62
++++++- -+----- +----- +----- +-----	*14:32:01, *14:39 = *14:39, *14:74
++++++- -+----- +----- +----- +-----	*14:10, *14:99 = *14:39, *14:99
++++++- -+----- +----- +----- +-----	*14:08, *14:39 = *14:23:01, *14:39
++++++- -+----- +----- +----- +-----	*14:39, *14:57 = *14:54, *14:57
++++++- -+----- +----- +----- +-----	*14:10, *14:58 = *14:39, *14:58

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+++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:90 = \*14:39, \*14:90  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:26 = \*14:26, \*14:39  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:01:01, \*14:10 = \*14:01:01, \*14:39  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:88 = \*14:39, \*14:88  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:38 = \*14:38, \*14:39  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:97 = \*14:39, \*14:97  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:60 = \*14:39, \*14:60  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:75 = \*14:39, \*14:75  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:82 = \*14:39, \*14:82  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:86 = \*14:39, \*14:86  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:92N = \*14:39, \*14:87 = \*14:39, \*14:92N  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:10, \*14:39 = \*14:10, \*14:54 = \*14:39, \*14:39 = \*14:39,  
 \*14:54  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:99 = \*14:74, \*14:99  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:16 = \*14:16, \*14:23:01  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:95 = \*14:74, \*14:95  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:64 = \*14:64, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:72 = \*14:34, \*14:35 = \*14:72, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:59 = \*14:59, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:32:01 = \*14:08, \*14:74 = \*14:23:01, \*14:32:01 =  
 \*14:23:01, \*14:74 = \*14:34, \*14:54  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:58 = \*14:58, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:35 = \*14:35, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:90 = \*14:74, \*14:90  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:26, \*14:32:01 = \*14:26, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:01:01, \*14:32:01 = \*14:01:01, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:88 = \*14:74, \*14:88  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:38 = \*14:38, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:97 = \*14:74, \*14:97  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:60 = \*14:60, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:70 = \*14:70, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:75 = \*14:74, \*14:75  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:82 = \*14:74, \*14:82  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:86 = \*14:74, \*14:86  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:92N = \*14:74, \*14:92N  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:54 = \*14:54, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:34 = \*14:34, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:87 = \*14:74, \*14:87  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:32:01, \*14:32:01 = \*14:32:01, \*14:74  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:99 = \*14:23:01, \*14:99  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:87, \*14:99 = \*14:92N, \*14:99  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:54, \*14:99 = \*14:99, \*14:99  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:87, \*14:95 = \*14:92N, \*14:95  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:54, \*14:95 = \*14:64, \*14:82 = \*14:70, \*14:95 = \*14:82,  
 \*14:95  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:64, \*14:87 = \*14:64, \*14:92N  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:54, \*14:64 = \*14:64, \*14:70  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:72, \*14:87 = \*14:72, \*14:92N  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:35 = \*14:23:01, \*14:35 = \*14:54, \*14:72  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:90 = \*14:23:01, \*14:90  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:26 = \*14:23:01, \*14:26  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:01:01, \*14:08 = \*14:01:01, \*14:23:01  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:88 = \*14:23:01, \*14:88  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:38 = \*14:23:01, \*14:38  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:97 = \*14:23:01, \*14:97  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:60 = \*14:23:01, \*14:60  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:59, \*14:87 = \*14:59, \*14:92N  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:54, \*14:59 = \*14:59, \*14:70 = \*14:59, \*14:86  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:70 = \*14:23:01, \*14:70  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:75 = \*14:23:01, \*14:75  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:82 = \*14:23:01, \*14:82  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:86 = \*14:23:01, \*14:86  
 ++++ - +++++ - +----+ ----- +----- +----- \*14:08, \*14:87 = \*14:08, \*14:92N = \*14:23:01, \*14:87 =  
 \*14:23:01, \*14:92N

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\*14:22, \*14:68 = \*14:25, \*14:68  
\*14:22, \*14:76 = \*14:22, \*14:79 = \*14:25, \*14:79  
\*14:22, \*14:73 = \*14:25, \*14:73 = \*14:69, \*14:73  
\*14:04, \*14:53 = \*14:31, \*14:53  
\*14:04, \*14:69 = \*14:31, \*14:69  
\*14:22, \*14:25 = \*14:22, \*14:69  
\*14:25, \*14:53 = \*14:53, \*14:69  
\*14:25, \*14:25 = \*14:25, \*14:69  
\*14:16, \*14:84 = \*14:74, \*14:84  
\*14:04, \*14:16 = \*14:16, \*14:31  
\*14:16, \*14:76 = \*14:16, \*14:79  
\*14:04, \*14:74 = \*14:31, \*14:74  
\*14:74, \*14:76 = \*14:74, \*14:79  
\*14:10, \*14:16 = \*14:16, \*14:57 = \*14:57, \*14:74  
\*14:15, \*14:16 = \*14:15, \*14:74  
\*14:16, \*14:16 = \*14:16, \*14:74  
\*14:02, \*14:78 = \*14:13, \*14:78  
\*14:03:01, \*14:17 = \*14:12:01, \*14:30  
\*14:03:01, \*14:80 = \*14:09, \*14:12:01  
\*14:06:01, \*14:85 = \*14:12:01, \*14:13  
\*14:02, \*14:12:01 = \*14:03:01, \*14:06:01  
\*14:19, \*14:33 = \*14:21, \*14:51  
\*14:02, \*14:33 = \*14:17, \*14:51 = \*14:33, \*14:51  
\*14:13, \*14:21 = \*14:21, \*14:24  
\*14:02, \*14:21 = \*14:17, \*14:19 = \*14:19, \*14:21  
\*14:02, \*14:17 = \*14:06:01, \*14:30  
\*14:02, \*14:80 = \*14:06:01, \*14:09  
\*14:02, \*14:63 = \*14:13, \*14:63 = \*14:13, \*14:67  
\*14:02, \*14:85 = \*14:03:01, \*14:13 = \*14:13, \*14:85  
\*14:02, \*14:50 = \*14:04, \*14:47 = \*14:47, \*14:50  
\*14:02, \*14:51 = \*14:51, \*14:51  
\*14:13, \*14:19 = \*14:19, \*14:24  
\*14:02, \*14:19 = \*14:19, \*14:19  
\*14:02, \*14:13 = \*14:13, \*14:13 = \*14:13, \*14:24  
\*14:02, \*14:98 = \*14:47, \*14:98  
\*14:02, \*14:47 = \*14:47, \*14:47  
\*14:02, \*14:48 = \*14:48, \*14:48  
\*14:04, \*14:29 = \*14:06:01, \*14:28 = \*14:28, \*14:29  
\*14:06:01, \*14:52 = \*14:20, \*14:52  
\*14:06:01, \*14:33 = \*14:20, \*14:33  
\*14:06:01, \*14:29 = \*14:20, \*14:29 = \*14:29, \*14:29  
\*14:06:01, \*14:21 = \*14:20, \*14:21  
\*14:06:01, \*14:17 = \*14:17, \*14:20  
\*14:06:01, \*14:80 = \*14:20, \*14:80  
\*14:06:01, \*14:83 = \*14:20, \*14:83 = \*14:83, \*14:83  
\*14:06:01, \*14:06:01 = \*14:06:01, \*14:20  
\*14:09, \*14:17 = \*14:30, \*14:80  
\*14:17, \*14:33 = \*14:33, \*14:33  
\*14:17, \*14:21 = \*14:21, \*14:21  
\*14:04, \*14:52 = \*14:31, \*14:52  
\*14:41, \*14:84 = \*14:77, \*14:84  
\*14:03:01, \*14:84 = \*14:40, \*14:84  
\*14:03:01, \*14:78 = \*14:24, \*14:78 = \*14:63, \*14:78 = \*14:67,  
\*14:78 = \*14:78, \*14:85  
\*14:03:01, \*14:73 = \*14:27, \*14:73  
\*14:03:01, \*14:57 = \*14:40, \*14:57  
\*14:03:01, \*14:27 = \*14:27, \*14:27  
\*14:03:01, \*14:15 = \*14:15, \*14:40  
\*14:03:01, \*14:77 = \*14:40, \*14:41 = \*14:40, \*14:77 = \*14:41,  
\*14:77 = \*14:77, \*14:77  
\*14:03:01, \*14:40 = \*14:40, \*14:40  
\*14:03:01, \*14:63 = \*14:24, \*14:63 = \*14:63, \*14:63 = \*14:63,  
\*14:67 = \*14:63, \*14:85 = \*14:67, \*14:85  
\*14:03:01, \*14:85 = \*14:24, \*14:85 = \*14:85, \*14:85



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14:01:01 = 14:01:01-14:01:03  
14:03:01 = 14:03:01-14:03:02  
14:05:01 = 14:05:01-14:05:02  
14:06:01 = 14:06:01-14:06:02  
14:07:01 = 14:07:01-14:07:02  
14:12:01 = 14:12:01-14:12:02  
14:23:01 = 14:23:01-14:23:03  
14:32:01 = 14:32:01-14:32:02

## SPECIFICITY TABLE

### DRB1\*14 SSP subtyping

**Specificities and sizes of the PCR products of the 48 primer mixes used for DRB1\*14 SSP subtyping**

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of contr. band <sup>2</sup>	Amplified DRB1*14 alleles <sup>3</sup>	Other amplified DRB alleles <sup>3,4</sup>
1	210 bp	515 bp	*14:01:01-14:01:03, 14:05:01-14:05:03, 14:07:01-14:08, 14:14, 14:18, 14:23:01-14:23:03, 14:26, 14:32:01-14:32:02, 14:34-14:36, 14:38-14:39, 14:42-14:45, 14:54, 14:55 <sup>w</sup> , 14:56, 14:58- 14:60, 14:62, 14:64-14:65, 14:70, 14:72, 14:75, 14:81- 14:82, 14:86-14:88, 14:90- 14:92N, 14:95-14:97, 14:99-14:100	*11:13:01-11:13:02, 11:17, 11:52, 11:89
2 <sup>8</sup>	175 bp	430 bp	*14:01:01-14:01:03, 14:07:01-14:07:02, 14:16, 14:22, 14:25-14:26, 14:32:01-14:32:02, 14:35, 14:38-14:39, 14:49, 14:53- 14:55, 14:58, 14:60, 14:62, 14:69-14:70, 14:74-14:75, 14:82, 14:86-14:88, 14:90, 14:92N, 14:97, 14:99	*03:10, 13:43, 13:45
3 <sup>5,6</sup>	140 bp	430 bp	*14:02, 14:06:01-14:06:02, 14:09, 14:13, 14:17, 14:19, 14:21, 14:29-14:30, 14:33, 14:46-14:48, 14:51-14:52, 14:80, 14:83	*13:10, 13:85
4 <sup>5,7</sup>	85 bp	430 bp	*14:02-14:03:02, 14:06:01- 14:06:02, 14:12:01-14:13, 14:18-14:20, 14:24, 14:27, 14:29, 14:40-14:41, 14:47- 14:49, 14:51, 14:63, 14:67, 14:77-14:78, 14:81, 14:83, 14:85, 14:89, 14:94, 14:98	*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 13:15, 13:19, 13:26, 13:53, 13:57, 13:85-13:86
5	260 bp	430 bp	*14:02-14:03:02, 14:07:01- 14:07:02, 14:09, 14:13- 14:14, 14:19, 14:22,	*03:02:01-03:02:02, 03:05:01-03:05:03, 03:09, 03:14, 03:17, 03:27, 03:29,

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			14:24-14:25, 14:27, 14:30, 14:36, 14:40-14:42, 14:44:01-14:44:02, 14:47- 14:49, 14:51, 14:53, 14:63, 14:67, 14:69, 14:77, 14:85, 14:89, 14:94, 14:98	03:35, 03:38, 03:40-03:41, 03:53, 11:01:01-11:01:12, 11:08:01-11:12:02, 11:14:01-11:15, 11:19:01- 11:20, 11:23-11:24, 11:26- 11:29, 11:31-11:33, 11:37, 11:39, 11:45, 11:49, 11:51, 11:53, 11:61-11:62, 11:64, 11:66, 11:68-11:69, 11:72- 11:75, 11:79-11:82, 11:87, 11:90-11:91, 11:93-11:97, 13:02:01-13:02:03, 13:03:01-13:03:06, 13:05:01-13:05:02, 13:07:01-13:07:02, 13:12- 13:14:03, 13:21:01- 13:21:02, 13:23, 13:25- 13:26, 13:29-13:31, 13:33:01-13:34, 13:36- 13:39, 13:41, 13:45-13:47, 13:49-13:50:02, 13:55- 13:56, 13:60, 13:62-13:63, 13:65-13:66:02, 13:73- 13:74, 13:82, 13:85-13:86, 13:88, 13:90, 13:95-13:97, 13:99-13:101, <b>DRB3*01:14</b>
<b>6<sup>8</sup></b>	260 bp	<b>515 bp</b>	*14:01:01-14:01:03, 14:05:01-14:06:02, 14:08, 14:12:01-14:12:02, 14:16- 14:18, 14:20-14:21, 14:23:01-14:23:03, 14:26, 14:29, 14:32:01-14:35, 14:37-14:39, 14:43, 14:45, 14:54-14:56, 14:58-14:60, 14:62, 14:64-14:65, 14:70, 14:72, 14:74-14:75, 14:78, 14:80-14:84, 14:86-14:88, 14:90-14:92N, 14:95-14:97, 14:99-14:100	*03:01:01:01-03:01:09, 03:03-03:04, 03:06-03:08, 03:10-03:13:02, 03:15- 03:16, 03:18-03:26, 03:28, 03:30-03:34, 03:36-03:37, 03:39, 03:43-03:52, 03:54- 03:56, 03:58, 08:20, 11:02:01-11:04:06, 11:06:01-11:07, 11:13:01- 11:13:02, 11:16-11:18, 11:21, 11:25, 11:34-11:36, 11:38, 11:40-11:44, 11:46- 11:48, 11:50, 11:52, 11:54:01-11:60, 11:63, 11:65:01-11:65:02, 11:70, 11:76-11:78, 11:83-11:85, 11:88-11:89, 11:92, 11:98, 13:01:01-13:01:08, 13:04, 13:06, 13:08-13:11:02, 13:15, 13:18-13:20, 13:22, 13:24, 13:27-13:28, 13:32, 13:35, 13:40, 13:42-13:44,

				13:48, 13:51-13:54, 13:57- 13:59, 13:61, 13:64, 13:68- 13:72, 13:75-13:81, 13:83- 13:84, 13:87, 13:89, 13:91- 13:94, 13:98, 13:102
7	225 bp	430 bp	*14:03:01-14:03:02, 14:12:01-14:12:02, 14:27, 14:40, 14:55, 14:63, 14:67, 14:77-14:78, 14:84-14:85, 14:89	*08:20, 11:23, 11:25, 11:45, 11:55, 11:64, 13:13, 13:18, 13:47, 13:55
8	170 bp	430 bp	*14:04, 14:28, 14:31, 14:50, 14:61, 14:68, 14:71, 14:73, 14:76, 14:79, 14:93	*08:08, 08:11 <sup>w</sup>
9 <sup>5,10</sup>	130 bp, 250 bp	430 bp	*14:05:01-14:05:03, 14:37, 14:43, 14:45, 14:56, 14:62, 14:65, 14:78, 14:84, 14:91, 14:96, 14:100	*03:12, 04:10-04:12, 04:67, 04:91, 08:06, 08:10, 08:12, 08:22, 13:04, 13:32, 13:48, 13:58, 13:72, 13:75, 13:81, 13:89, 13:93-13:94, 15:12
10 <sup>6</sup>	175 bp	430 bp	*14:10, 14:39, 14:57	*04:62, 04:69
11 <sup>5,11</sup>	85 bp, 170 bp, 215 bp	430 bp	*14:11, 14:16, 14:22, 14:25, 14:31-14:32:02, 14:34, 14:49, 14:52-14:53, 14:69, 14:74	*01:14, 04:62, 08:05, 08:18, 08:24-08:25, 08:31, 08:40- 08:41, 11:67, 12:01:01- 12:21, 12:23-12:26, 13:17, 13:43, 13:45
12 <sup>7</sup>	225 bp	<b>515 bp</b>	*14:01:01-14:01:03, 14:05:01-14:05:03, 14:07:01-14:08, 14:14, 14:18, 14:23:01-14:23:03, 14:26, 14:33, 14:35-14:36, 14:38-14:39, 14:42-14:45, 14:51, 14:54, 14:56, 14:58- 14:60, 14:62, 14:64, 14:70, 14:72, 14:75, 14:82, 14:86, 14:88, 14:90-14:92N, 14:95-14:97, 14:99	*03:11:01-03:11:02, 03:17, 03:24, 03:27, 03:35, 11:17, 11:52-11:54:02, 11:89, 13:76
13 <sup>5</sup>	115 bp	430 bp	*14:01:01-14:01:03, 14:04, 14:07:01-14:08, 14:10, 14:16, 14:22, 14:26, 14:28, 14:31-14:32:02, 14:34- 14:35, 14:38-14:39, 14:49- 14:50, 14:54-14:55, 14:60- 14:62, 14:68, 14:70-14:75, 14:79, 14:82, 14:86-14:88, 14:90, 14:92N-14:93, 14:97, 14:99	*03:10, 11:52, 13:43

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<b>14<sup>5,12</sup></b>	60 bp, 130 bp	<b>515 bp</b>	*14:22, 14:25, 14:27, 14:53, 14:73	*08:08, 11:09, 11:28:01- 11:28:02, 11:58:01- 11:58:02, 11:83, 11:87, 13:05:01-13:05:02, 13:18, 13:26, 13:42, 13:50:01- 13:50:02, 16:08
<b>15<sup>9</sup></b>	185 bp	430 bp	*14:28-14:29, 14:99	*03:20, 12:05, 12:14-12:15
<b>16<sup>5</sup></b>	105 bp	430 bp	*14:05:01-14:05:02, 14:08, 14:11, 14:14, 14:18, 14:23:01-14:23:03, 14:34, 14:36, 14:42-14:44:01, 14:45, 14:56, 14:59, 14:64, 14:72, 14:91, 14:95-14:96, 14:100	*01:02:01-01:02:05, 01:23, 01:26, 01:34, 11:01:05, 11:01:10, 11:04:03, 11:06:02, 11:13:01- 11:13:02, 11:17, 11:52, 11:54:01, 12:04, 12:09, 13:01:03, 13:76
<b>17</b>	220 bp	430 bp	*14:19, 14:21, 14:43	*11:73, 11:79, 11:93, 13:03:01-13:03:06, 13:10, 13:33:01-13:33:03, 13:37, 13:66:01-13:66:02, 13:81, 13:85, 13:88-13:90, 13:94- 13:95, 13:101
<b>18<sup>5,7</sup></b>	85 bp	430 bp	*14:01:01-14:01:03, 14:05:01-14:05:03, 14:07:01-14:09, 14:14, 14:16-14:17, 14:21- 14:23:03, 14:25-14:26, 14:30, 14:32:01-14:39, 14:42-14:45, 14:53-14:56, 14:58-14:60, 14:62, 14:64- 14:65, 14:69, 14:72, 14:74- 14:75, 14:80, 14:82, 14:84, 14:86-14:88, 14:90- 14:92N, 14:95-14:97, 14:99-14:100	*03:01:01:01-03:01:09, 03:04-03:26, 03:28, 03:30- 03:37, 03:39-03:41, 03:43- 03:52, 03:54-03:58, 08:20, 11:01:01-11:04:06, 11:06:01-11:21, 11:23- 11:29, 11:31-11:66, 11:68- 11:70, 11:73-11:91, 11:93- 11:98, 13:01:01-13:14:03, 13:16, 13:18, 13:20-13:25, 13:27-13:52, 13:54-13:56, 13:58-13:66:02, 13:68- 13:84, 13:87-13:100, 13:102, <b>DRB3*01:14</b>
<b>19<sup>5</sup></b>	145 bp	430 bp	*14:15-14:16, 14:40, 14:55, 14:57, 14:77, 14:84	*08:09, 08:21, 08:35, 13:08, 13:19, 13:57, 13:64, 13:72, 13:76, 13:83
<b>20<sup>5,13</sup></b>	110 bp, 160 bp, 215 bp	430 bp	*14:04, 14:15, 14:25, 14:28, 14:31, 14:50, 14:53, 14:58, 14:68-14:69, 14:71, 14:73, 14:76, 14:79, 14:93	*08:01:01-08:04:05, 08:06- 08:17, 08:19-08:23, 08:26- 08:28, 08:30:01-08:30:02, 08:32-08:39, 11:23, 11:25, 11:45, 11:55, 11:64, 11:67, 13:13, 13:45, 13:47, 13:55
<b>21<sup>14</sup></b>	170 bp, 215 bp	<b>515 bp</b>	*14:13, 14:24, 14:37, 14:63, 14:65, 14:78, 14:85	*03:12, 11:69, 11:82, 13:03:01-13:04, 13:09, 13:12-13:13,

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				13:21:01-13:21:02, 13:30, 13:32-13:33:03, 13:38, 13:48-13:49, 13:55, 13:58, 13:65-13:66:02, 13:75, 13:81, 13:88-13:90, 13:93- 13:95, 13:101
22 <sup>5</sup>	145 bp	430 bp	*14:01:01-14:03:02, 14:05:01-14:09, 14:12:01- 14:14, 14:16, 14:18-14:20, 14:22-14:27, 14:29, 14:32:01-14:32:02, 14:34, 14:36-14:41, 14:43-14:45, 14:47-14:49, 14:51, 14:54- 14:56, 14:58-14:60, 14:62- 14:63, 14:67, 14:69-14:70, 14:74-14:75, 14:77-14:78, 14:80-14:92N, 14:94, 14:96-14:100	*03:02:01-03:03, 03:06, 03:17, 03:26-03:27, 03:31, 03:35, 03:38, 03:41, 08:20, 11:17, 11:37, 11:41, 11:48, 11:50, 11:52, 11:56, 11:83, 13:03:01-13:03:06, 13:07:01-13:08, 13:12- 13:13, 13:19, 13:26, 13:32- 13:33:03, 13:36-13:38, 13:40, 13:47-13:49, 13:53, 13:55, 13:58, 13:60, 13:65, 13:70, 13:72, 13:76, 13:81, 13:84-13:85, 13:88-13:90, 13:94-13:95, 13:101, <b>DRB3*01:14</b>
23 <sup>5</sup>	145 bp	430 bp	*14:17, 14:21, 14:30, 14:33, 14:35, 14:42, 14:53, 14:64-14:65, 14:72, 14:95	*03:01:01:01-03:01:09, 03:04-03:05:03, 03:07- 03:15, 03:18-03:25, 03:28- 03:30, 03:32-03:34, 03:36- 03:37, 03:39-03:40, 03:43- 03:52, 03:54-03:58, 11:01:01-11:01:06, 11:01:08-11:04:06, 11:06:01-11:16, 11:18- 11:21, 11:23-11:29, 11:31- 11:36, 11:38-11:40, 11:42- 11:47, 11:49, 11:51, 11:53- 11:55, 11:57-11:66, 11:68- 11:70, 11:72-11:82, 11:84- 11:87, 11:89-11:98, 13:01:01-13:02:04, 13:04- 13:06, 13:09-13:11:02, 13:14:01-13:16, 13:18, 13:20-13:25, 13:27-13:31, 13:34, 13:39, 13:41-13:46, 13:50:01-13:52, 13:54, 13:56-13:57, 13:59, 13:61- 13:64, 13:66:01-13:66:02, 13:68-13:69, 13:71, 13:73- 13:75, 13:77-13:79, 13:82- 13:83, 13:86-13:87, 13:91- 13:93, 13:96-13:100, 13:102

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<b>24<sup>5,15</sup></b>	75 bp, 115 bp, 135 bp, 165 bp	430 bp	*14:26, 14:36, 14:41, 14:77, 14:90	*03:18, 03:43, 11:76, 13:34, 13:64, 13:92, <b>DRB3*01:14</b>
<b>25<sup>5,16</sup></b>	120 bp, 210 bp, 250 bp	430 bp	*14:07:01-14:07:02, 14:22, 14:25, 14:44:01-14:44:02, 14:49, 14:53, 14:56, 14:68-14:69, 14:93	*01:14, 03:35, 04:62, 04:69, 08:08, 08:15, 13:45, <b>DRB3*02:16</b>
<b>26</b>	250 bp	<b>515 bp</b>	*14:01:01-14:01:03	
<b>27<sup>6,8</sup></b>	220 bp	<b>515 bp</b>	*14:46	
<b>28<sup>8,17</sup></b>	160 bp, 230 bp	430 bp	*14:38, 14:47, 14:50, 14:88, 14:98	*03:01:02, 03:02:02, 03:05:03, 03:11:02, 03:13:02, 03:17, 03:24, 03:27, 03:35, 11:27:01, 11:84, 12:22, 13:33:02-13:33:03, 13:61, <b>DRB3*01:14</b>
<b>29<sup>5,8,18</sup></b>	125 bp, 175 bp	<b>515 bp</b>	*14:48, 14:60, 14:97	*03:26, 03:33, 03:38, 03:44, 11:44, 11:49-11:50, 11:85, 13:31, 13:46, 13:54, 13:77, 13:100, <b>DRB3*01:14</b>
<b>30</b>	200 bp	430 bp	*14:06:01-14:06:02, 14:12:01-14:12:02, 14:17-14:18, 14:21, 14:29, 14:33, 14:52, 14:59, 14:64, 14:70, 14:78, 14:80-14:81, 14:83, 14:95	*03:01:01:01-03:01:09, 03:03, 03:06-03:08, 03:10-03:13:02, 03:15-03:16, 03:18-03:20, 03:22-03:24, 03:26, 03:28, 03:32-03:34, 03:36-03:37, 03:39, 03:42, 03:45-03:48, 03:50-03:51, 03:54-03:56, 03:58, 11:16, 11:40, 11:58:01, 11:59, 11:83, 13:01:01-13:01:08, 13:06, 13:09-13:10, 13:15, 13:18, 13:20, 13:27-13:28, 13:32, 13:35, 13:40, 13:42-13:43, 13:51, 13:53, 13:59, 13:61, 13:69, 13:71, 13:77-13:80, 13:87, 13:91-13:93, 13:98, 13:102, 15:03:01:01-15:03:01:02, 15:23, 15:32
<b>31<sup>5</sup></b>	80 bp	<b>515 bp</b>	*14:35, 14:53, 14:72	*03:10, 11:31, 11:96, 13:43, 13:45
<b>32<sup>5,8,19</sup></b>	100 bp, 145 bp	430 bp	*14:13, 14:19, 14:21, 14:63, 14:78, 14:85	*03:12, 13:10, 13:32, 13:65, 13:85, 13:93
<b>33</b>	175 bp	430 bp	*14:01:01-14:01:03, 14:07:01-14:08, 14:16, 14:22, 14:25-14:26,	*03:10, 13:43, 13:45

			14:32:01-14:32:02, 14:34- 14:35, 14:38-14:39, 14:49, 14:53-14:55, 14:58, 14:60, 14:62, 14:69-14:70, 14:74- 14:75, 14:82, 14:86-14:88, 14:90, 14:92N, 14:97, 14:99	
34	205 bp	<b>515 bp</b>	*14:04, 14:11, 14:28, 14:31, 14:50, 14:68, 14:71, 14:93	
35	250 bp	430 bp	*14:04, 14:11, 14:15, 14:28, 14:31, 14:50, 14:52, 14:71, 14:73, 14:76, 14:79	*08:04:01, 08:04:04- 08:04:05, 08:06, 08:10, 08:12, 08:22, 08:28, 08:31, 11:67, 12:01:01-12:15, 12:17-12:21, 12:23-12:26, 13:17
36 <sup>5</sup>	130 bp	<b>515 bp</b>	*14:63, 14:67, 14:78	*11:16, 11:20, 13:01:01- 13:01:06, 13:01:08- 13:02:04, 13:06, 13:10, 13:15-13:16, 13:27-13:28, 13:31-13:32, 13:34-13:36, 13:39-13:41, 13:51, 13:53, 13:59, 13:61, 13:65, 13:67, 13:69, 13:73, 13:77, 13:79- 13:80, 13:85, 13:87, 13:91- 13:93, 13:96, 13:98-13:99, 13:102-13:103
37	175 bp	430 bp		*03:08, 11:01:01-11:04:06, 11:06:01-11:21, 11:23- 11:29, 11:31-11:66, 11:68- 11:70, 11:72-11:98
38	215 bp	<b>515 bp</b>	*14:37, 14:100	*13:72
39	155 bp	430 bp	*14:18, 14:33, 14:51, 14:59, 14:64, 14:95	*03:11:01
40	250 bp	430 bp	*14:71	
41 <sup>5,20</sup>	115 bp, 165 bp, 245 bp	430 bp	*14:75, 14:90-14:91, 14:94, 14:97	*03:04, 03:26, 03:33, 03:44, 11:29, 11:44, 11:47, 11:49- 11:50, 11:63, 11:85, 13:60, 13:84
42	225 bp	<b>515 bp</b>	*14:76, 14:79, 14:93	
43	200 bp	430 bp	*14:82, 14:95	
44	220 bp	<b>515 bp</b>	*14:83	
45 <sup>5</sup>	125 bp	<b>515 bp</b>	*14:59, 14:86, 14:96	

<b>46<sup>5,21</sup></b>	105 bp, 165 bp, 220 bp	<b>515 bp</b>	*14:87-14:89, 14:92N	
<b>47<sup>5,7</sup></b>	60 bp	430 bp	*14:63, 14:67, 14:78	*04:12, 04:18, 04:86, 08:03:02, 08:10, 08:12, 08:14-08:15, 08:19, 08:23, 08:27, 08:30:01-08:30:02, 08:32-08:38, 11:45, 13:13, 15:21
<b>48<sup>5,22</sup></b>	65 bp, 190 bp, 225 bp	430 bp	*14:45, 14:98	*03:35, 11:27:01, 11:84, 12:22, 13:33:02-13:33:03, 13:61

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of DRB1\*14 SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DRB1\*14 subtyping.

In addition, wells number 6, 12, 14, 21, 26, 27, 29, 31, 34, 36, 38, 42 and 44 to 46 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

<sup>3</sup>For several DRB alleles only partial second exon nucleotide sequences are available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in the first hyperpolymorphic region of the second exon of DRB alleles are conserved within allelic groups and that unknown sequences of codons 87 to 92 are identical with the DRB1\*01:01 consensus sequence.

<sup>4</sup>Due to the sharing of sequence motifs within the DR52 group of DRB1 alleles, non-DRB1\*13 alleles will be amplified by primer mixes 1 to 25, 28 to 33, 35 to 39, 41, 47 and 48. In addition, the DRB3\*01:14 allele will be amplified by primer mixes 5, 18, 22, 24, 28 and 29, and the DRB3\*02:16 allele will be amplified by primer mix 25.

<sup>5</sup>Short specific PCR fragments are less intense and not as sharp as longer specific bands.

<sup>6</sup>Primer mixes 3, 10 and 27 have a tendency of giving rise to nonspecific amplifications.

<sup>7</sup>Primer mixes 4, 12, 18 and 47 may yield less specific PCR product than the other DRB1\*14 primer mixes.

<sup>8</sup>Primer mixes 2, 6, 27 to 29 and 32 have tendencies of giving rise to primer oligomer formation.

<sup>9</sup>Primer mix 15 has a tendency of giving rise to a weaker positive control band than the other DRB1\*14 primer mixes.

<sup>10</sup>Primer mix 9: Specific PCR fragment of 130 bp in the DRB1\* 14:62, 14:65 and 14:78 and the DRB1\*03:12, 04:10-04:12, 04:67, 04:91, 08:06, 08:10, 08:12, 08:22, 13:04, 13:32, 13:48, 13:58, 13:75, 13:81, 13:89, 13:93-13:94 and 15:12 alleles. Specific PCR fragment of 250 bp in the DRB1\*14:05:01-14:05:03, 14:37, 14:43, 14:45, 14:56, 14:84, 14:91, 14:96 and 14:100 and the DRB1\*13:72 alleles.

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<sup>11</sup>Primer mix 11: Specific PCR fragment of 85 bp in the DRB1\*14:16, 14:22, 14:25, 14:32:01-14:32:02, 14:34, 14:49, 14:53, 14:69 and 14:74 and the DRB1\*01:14, 04:62, 13:43 and 13:45 alleles. Specific PCR fragment of 170 bp in the DRB1\*14:11 and DRB1\*11:67 alleles. Specific PCR fragment of 215 bp in the DRB1\*14:52 and the DRB1\* 08:05, 08:18, 08:24-08:25, 08:40, 12:01:01-12:03, 12:05-12:21, 12:23-12:26 and 13:17 alleles. Specific PCR fragment of 85 and 215 bp in the DRB1\*14:31 allele. Specific PCR fragment of 170 and 215 bp in the DRB1\*08:31, 08:4 and 12:04 alleles.

<sup>12</sup>Primer mix 14: Specific PCR fragment of 60 bp in the DRB1\*14:22, 14:25, 14:53 and 14:73 and the DRB1\*08:08 alleles. Specific PCR fragment of 130 bp in the DRB1\*14:27 and the DRB1\*11:09, 11:28:01-11:28:02, 11:58:01-11:58:02, 11:83, 11:87, 13:05:01-13:05:02, 13:18, 13:26, 13:42, 13:50:01-13:50:02 and 16:08 alleles.

<sup>13</sup>Primer mix 20: Specific PCR fragment of 110 bp in the DRB1\*14:25, 14:53, 14:58 and 14:69 and DRB1\*13:45 alleles. Specific PCR fragment of 160 bp in the DRB1\*14:04, 14:28, 14:31, 14:50, 14:68, 14:71, 14:73, 14:76, 14:79, 14:93, 08:20, 11:23, 11:25, 11:45, 11:55, 11:64, 13:13, 13:47, 13:55 alleles. Specific PCR fragment of 215 bp in the DRB1\*14:15 and the DRB1\*08:03:02, 08:09, 08:21, 08:27, 08:32, 08:35 and 08:38 alleles. Specific PCR fragments of 160 and 215 bp in the DRB1\*08:01:01-08:02:03, 08:04:01-08:04:05, 08:06, 08:07, 08:10, 08:12-08:17, 08:19, 08:22, 08:23, 08:26, 08:28, 08:30:01-08:30:02, 08:33, 08:34, 08:36, 08:37, 08:39 and 11:67 alleles. Specific PCR fragments of 110, 160 and 215 bp in the DRB1\*08:08 and 08:11 alleles. Not all specific PCR fragments may be obtained in alleles being amplified by more than one primer pair.

<sup>14</sup>Primer mix 21: Specific PCR fragment of 170 bp in DRB1\*14:13, 14:63, 14:65, 14:78 and 14:85 and the DRB1\*03:12, 13:03:01-13:04, 13:12-13:13, 13:21:01-13:21:02, 13:30, 13:32-13:33:03, 13:38, 13:48-13:49, 13:55, 13:58, 13:65-13:66:02, 13:75, 13:81, 13:88-13:90, 13:93-13:95, 13:101 alleles. Specific PCR fragment of 215 bp in the DRB1\*14:24 and 14:37 and the DRB1\*11:69, 11:82 and 13:09 alleles.

<sup>15</sup>Primer mix 24: Specific PCR fragment of 75 bp in the DRB1\*14:26 and the DRB1\*13:92 alleles. Specific PCR fragment of 115 bp in the DRB1\*14:36, 14:41 and 14:77 and the DRB1\*03:18, 03:43, 11:76, 13:34 and 13:64 and in the DRB3\*01:14 alleles. Specific PCR fragment of 135 bp in the DRB1\*1436 and DRB1\*0318 alleles. Specific PCR fragment of 165 bp in the DRB1\*14:90 allele.

<sup>16</sup>Primer mix 25: Specific PCR fragment of 120 bp in the DRB1\*14:07:01-14:07:02, 14:22, 14:25, 14:49, 14:53, 14:68-14:69 and 14:93 and the DRB1\*01:14, 04:62, 04:69, 08:08, 08:15 and 13:45 and in the DRB3\*02:16 alleles. Specific PCR fragment of 210 bp in the DRB1\*14:56 allele. Specific PCR fragment of 250 bp in the DRB1\*14:44:01-14:44:02 and the DRB1\*03:35 alleles.

<sup>17</sup>Primer mix 28: Specific PCR fragment of 160 bp in the DRB1\*14:88 allele. Specific PCR fragment of 230 bp in the DRB1\*14:38, 14:47, 14:50 and 14:98 and the DRB1\*03:01:02, 03:02:02, 03:05:03, 03:11:02, 03:13:02, 03:17, 03:24, 03:27, 03:35, 11:27:01, 11:84, 12:22, 13:33:02-13:33:03 and 13:61 and in the DRB3\*01:14 alleles.

<sup>18</sup>Primer mix 29: Specific PCR fragment of 125 bp in the DRB1\*14:60 and 14:97 and the DRB1\*03:26, 03:33, 03:44, 11:44, 11:49-11:50 and 11:85 alleles. Specific PCR fragment of 175 bp in the DRB1\*14:48 and the DRB1\*03:38, 13:31, 13:46, 13:54, 13:77 and 13:100 and the DRB3\*01:14 alleles.

<sup>19</sup>Primer mix 32: Specific PCR fragment of 100 bp in the DRB1\*14:13, 14:63, 14:78 and 14:85 and the DRB1\*03:12, 13:32, 13:65 and 13:93 alleles. Specific PCR fragment of 145 bp in the DRB1\*14:19 and 14:21 and the DRB1\*03:12, 13:10 and 13:85 alleles.

<sup>20</sup>Primer mix 41: Specific PCR fragment of 115 bp in the DRB1\*14:91, 14:94 and 14:97 and in the DRB1\*03:04, 03:26, 03:33, 03:44, 11:29, 11:44, 11:47, 11:49-11:50, 11:63, 11:85, 13:60 and 13:84 alleles. Specific PCR fragment of 165 bp in the DRB1\*14:90 allele. Specific PCR fragment of 245 bp in the DRB1\*14:75 allele.

<sup>21</sup>Primer mix 46: Specific PCR fragment of 105 bp in the DRB1\*14:92N allele. Specific PCR fragment of 165 bp in the DRB1\*14:88 allele. Specific PCR fragment of 220 bp in the DRB1\*14:87 and 14:89 alleles.

<sup>22</sup>Primer mix 48: Specific PCR fragment of 65 bp in the DRB1\*14:98 and the DRB1\*11:27:01, 11:84, 12:22, 13:33:02-13:33:03 and 13:61 alleles. Specific PCR fragment of 190 bp in the DRB1\*14:45 allele. Specific PCR fragment of 225 bp in the DRB1\*03:35 allele.

'w', might be weakly amplified.

**INTERPRETATION TABLE****DRB1\*14 SSP subtyping****Amplification patterns of the DRB1\*14:01 to DRB1\*14:100 alleles**

		Well <sup>5</sup>																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
<b>Length of spec.</b>		210																								
<b>PCR product(s)</b>		515																								
<b>Length of int.</b>																										
<b>pos. control<sup>1</sup></b>																										
<b>5'-primer(s)<sup>2</sup></b>																										
<b>3'-primer(s)<sup>3</sup></b>																										
<b>Well No.</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

## **INTERPRETATION TABLE**

## **DRB1\*14 SSP subtyping**

## Amplification patterns of the DRB1\*14:01 to DRB1\*14:100 alleles

December 2010  
Rev. No.: 00u



For *In Vitro* Diagnostic Use.

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	130	60	185	105	220	85	145	145	145													
PCR product(s)									215	170								215	160	110	215	170													
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24											
DRB1 allele <sup>4</sup>																																			
*14:01:01-14:01:03	1	2				6					12	13						18			22														
*14:02			3	4	5																22														
*14:03:01-14:03:02				4	5	7															22														
*14:04							8				13							20																	
*14:05:01-14:05:02	1					6			9		12					16	18			22															
*14:05:03	1					6			9		12						18			22															
*14:06:01-14:06:02			3	4		6														22															
*14:07:01-14:07:02	1	2			5					12	13					18			22																
*14:08	1					6					12	13			16	18			22																
*14:09			3		5												18			22															
*14:10									10		13																								
*14:11									11					16																					
*14:12:01-14:12:02			4		6	7															22														
*14:13			3	4	5															21	22														
*14:14	1				5					12				16	18					22															
*14:15																19	20																		
*14:16		2				6				11	13				18	19			22																
*14:17		3				6									18				23																
*14:18	1		4		6					12			16							22															
*14:19		3	4	5										17						22															
*14:20			4		6															22															
*14:21		3			6										17	18				23															
*14:22		2			5					11	13	14			18				22																
*14:23:01-14:23:03	1				6					12			16	18					22																
*14:24			4	5																21	22														
*14:25		2			5					11		14			18	20			22																
*14:26	1	2			6					12	13				18				22	24															
*14:27			4	5	7							14								22															
*14:28						8					13	15					20																		
*14:29		3	4		6							15								22															
*14:30		3		5											18				23																
*14:31					8		11	13								20																			
*14:32:01-14:32:02	1	2			6					11	13				18				22																
*14:33			3		6					12					18				23																
*14:34	1				6					11	13		16		18				22																
*14:35	1	2			6					12	13				18				23																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24											

250	210	120	250	220	160	125	230	175	200	80	145	100	175	205	250	130	175	215	155	250	245	165	115	225	200	220	125	220	165	105	60	225	190	65	Length of spec.	PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48											Well No.		
26								33																								DRB1 allele <sup>4</sup>				
																																*14:01:01-14:01:03				
																																*14:02				
																																*14:03:01-14:03:02				
																																*14:04				
																																*14:05:01-14:05:02				
																																*14:05:03				
																																*14:06:01-14:06:02				
25								33																								*14:07:01-14:07:02				
																																*14:08				
																																*14:09				
																																*14:10				
																																*14:11				
								30																								*14:12:01-14:12:02				
																																*14:13				
																																*14:14				
																																*14:15				
																																*14:16				
								30																								*14:17				
																																*14:18				
																																*14:19				
																																*14:20				
																																*14:21				
25								33																								*14:22				
																																*14:23:01-14:23:03				
																																*14:24				
25								33																								*14:25				
																																*14:26				
																																*14:27				
																																*14:28				
								30																								*14:29				
																																*14:30				
																																*14:31				
																																*14:32:01-14:32:02				
								30																								*14:33				
																																*14:34				
																																*14:35				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48						Well No.							

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	130	60	185	105	220	85	145	110	215	170	145	145	145			
PCR product(s)									250	170	215										215	160	215	135	115	75			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
*14:36	1				5						12					16		18				22		24					
*14:37						6			9									18				21	22						
*14:38	1	2				6					12	13					18					22							
*14:39	1	2				6			10	12	13					18					22								
*14:40			4	5		7													19			22							
*14:41			4	5																	22		24						
*14:42	1				5						12				16		18					23							
*14:43	1					6			9		12				16	17	18					22							
*14:44:01	1				5						12				16		18					22							
*14:44:02	1				5						12					18						22							
*14:45	1					6			9		12				16		18					22							
*14:46			3																										
*14:47		3	4	5																		22							
*14:48		3	4	5																		22							
*14:49		2	4	5						11		13										22							
*14:50						8						13							20										
*14:51		3	4	5							12											22							
*14:52		3								11																			
*14:53		2			5					11		14				18	20					23							
*14:54	1	2			6					12	13				18						22								
*14:55	w	2			6	7					13				18	19						22							
*14:56	1				6				9		12				16		18					22							
*14:57								10								19													
*14:58	1	2			6					12					18	20					22								
*14:59	1				6					12				16		18					22								
*14:60	1	2			6					12	13				18						22								
*14:61						8					13																		
*14:62	1	2			6				9		12	13				18					22								
*14:63		4	5	7																		21	22						
*14:64	1				6					12				16		18					23								
*14:65	1				6				9						18		21				23								
*14:67		4	5	7																		22							
*14:68						8					13					20													
*14:69		2			5				11						18	20					22								
*14:70	1	2			6					12	13											22							
*14:71						8				13					20														
*14:72	1				6					12	13		16		18						23								
*14:73						8				13	14				20														
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	130	60	185	105	220	85	145	145	145			
PCR product(s)									250	170	215								215	160	110	215	170		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
*14:74						2			6				11		13				18			22			
*14:75	1	2							6					12	13				18			22			
*14:76										8										20					
*14:77					4	5	7											19		22	22	24			
*14:78						4			6	7	9										21	22			
*14:79										8				13					20						
*14:80					3				6									18			22				
*14:81	1				4				6												22				
*14:82	1	2							6					12	13			18			22				
*14:83			3	4					6											22					
*14:84									6	7	9							18	19		22				
*14:85					4	5	7													21	22				
*14:86	1	2							6					12	13			18			22				
*14:87	1	2							6					13				18			22				
*14:88	1	2							6					12	13			18			22				
*14:89					4	5	7													22					
*14:90	1	2							6					12	13			18			22	24			
*14:91	1								6		9			12			16	18			22				
*14:92N	1	2							6					12	13			18			22				
*14:93										8				13				20							
*14:94					4	5														22					
*14:95	1								6					12			16	18			23				
*14:96	1								6		9			12			16	18			22				
*14:97	1	2							6					12	13			18			22				
*14:98					4	5														22					
*14:99	1	2							6					12	13	15		18			22				
*14:100	1								6		9						16	18			22				
*01:02:01-01:02:05, 01:23, 01:26, 01:34																	16								
*01:14														11											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

250	210	120	250	220	160	125	230	175	200	80	145	100	175	205	250	130	175	215	155	250	245	165	115	225	200	220	125	220	165	105	60	225	190	65	Length of spec.	PCR product(s)	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48										Well No.				
								33																								*14:74					
								33									41															*14:75					
									35									42														*14:76					
										30	32		36							47													*14:77				
										35								42														*14:78					
										30																							*14:79				
										30																							*14:80				
										30																							*14:81				
										32																							*14:82				
										30										43												*14:83					
											32										44											*14:84					
												33																					*14:85				
												33										45											*14:86				
												33											46											*14:87			
												28		33									46											*14:88			
																																		*14:89			
																																		*14:90			
																																		*14:91			
																																		*14:92N			
25												34									42												*14:93				
																																		*14:94			
													30									41											*14:95				
																								39											*14:96		
														29		33							41											*14:97			
																																		*14:98			
																																		*14:99			
																																		*14:100			
25																																					*01:02:01-01:02:05, 01:23, 01:26, 01:34 *01:14
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48										Well No.				

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Length of spec.	Lot-specific information																www.olerup-ssp.com								
	210	175	140	85	260	260	225	170	130	175	85	225	115	130	60	185	105	220	85	145	110	170	145	145	
	PCR product(s)								250	170	85	225	215	170						215	160	215			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
*03:01:01:01- 03:01:01:02, 03:01:03- 03:01:09, 03:07, 03:13:01, 03:15, 03:19, 03:22-03:23, 03:28, 03:32, 03:34, 03:36-03:37, 03:39, 03:45-03:48, 03:50- 03:51, 03:54-03:56, 03:58, 13:01:07, 13:20, 13:71, 13:78								6										18					23		
*03:01:02, 03:13:02						6													18				23		
*03:02:01			4	5																			22		
*03:02:02			4	5																			22		
*03:03			4		6																		22		
*03:04					6														18				23		
*03:05:01-03:05:02, 03:09, 03:14, 03:40, 13:14:01-13:14:03, 13:23, 13:25, 13:29, 13:56, 13:62-13:63, 13:74, 13:82, 13:97							5												18				23		
*03:05:03					5														18				23		
*03:06						6													18				22		
*03:08, 11:40, 11:59						6													18				23		
*03:10		2				6										13			18				23		
*03:11:01					6						12							18				23			
*03:11:02, 03:24						6					12							18				23			
*03:12						6			9									18		21		23			
*03:16						6												18							
*03:17					5						12							18				22			
*03:18						6												18				23	24		
*03:20						6										15		18				23			
*03:21, 03:25, 03:30, 03:49, 03:52, 13:11:01- 13:11:02, 13:22, 13:24, 13:44, 13:52, 13:68							6											18				23			
*03:26						6												18				22			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

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### **Lot-specific information**

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## **General “Instructions for Use”**



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## **Lot-specific information**

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IFU-02 Rev. No. 02 can be downloaded from

[www.olerup-ssp.com](http://www.olerup-ssp.com)

Length of spec.	210	175	140	85	260	260	225	170	250	130	175	215	170	85	130	60	115	130	185	105	220	85	145	215	170	145	145	165	135	115	75		
PCR product(s)																																	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24									
*03:27				4	5						12																	22					
*03:29, 13:86				4	5																								23				
*03:31, 13:70							6																					18	22				
*03:33							6																					18	23				
*03:35						5					12																18	22					
*03:38					4	5																						22					
*03:41, 13:07:01- 13:07:02							5																					18	22				
*03:42, 15:03:01:01- 15:03:01:02, 15:23, 15:32																																	
*03:43							6																				18	23	24				
*03:44							6																				18	23					
*03:53				4	5																												
*03:57																												18	23				
*04:10-04:11, 04:67, 04:91, 15:12											9																						
*04:12											9																						
*04:18, 04:86, 15:21																																	
*04:62											10 11																						
*04:69											10																						
*08:01:01-08:02:03, 08:04:02-08:04:03, 08:07, 08:13, 08:16- 08:17, 08:26, 08:39																												20					
*08:03:02, 08:14, 08:19, 08:23, 08:27, 08:30:01-08:30:02, 08:32-08:34, 08:36- 08:38																												20					
*08:04:01, 08:04:04- 08:04:05, 08:28																												20					
*08:05, 08:18, 08:24- 08:25, 08:40-08:41, 12:16											11																						
*08:06, 08:22											9																20						
*08:08											8								14								20						
*08:09, 08:21																											19	20					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24									

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Length of spec. PCR product(s)							
250	210	120	250	220	230	160	230	175	125	200	80	145	100	175	205	250	250	130	175	215	155	250	245	115	220	165	105	60	225	190	65
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.						
			28																							*03:27					
																										*03:29, 13:86					
																										*03:31, 13:70					
				29	30													41								*03:33					
25	28																									*03:35					
			29																							*03:38					
																										*03:41, 13:07:01-13:07:02					
																										*03:42, 15:03:01:01-15:03:01:02, 15:23, 15:32					
																										*03:43					
				29														41								*03:44					
																										*03:53					
																										*03:57					
																										*04:10-04:11, 04:67, 04:91, 15:12					
																										*04:12					
25																										*04:18, 04:86, 15:21					
25																										*04:62					
25																										*04:69					
																										*08:01:01-08:02:03, 08:04:02-08:04:03, 08:07, 08:13, 08:16-08:17, 08:26, 08:39					
																										*08:03:02, 08:14, 08:19, 08:23, 08:27, 08:30:01-08:30:02, 08:32-08:34, 08:36-08:38					
																										*08:04:01, 08:04:04-08:04:05, 08:28					
																										*08:05, 08:18, 08:24-08:25, 08:40-08:41, 12:16					
																										*08:06, 08:22					
25																										*08:08					
																										*08:09, 08:21					
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.							

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	130	60	185	105	220	85	145	145	145		
PCR product(s)									250	170	215							215	160	215	170	165		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*08:10, 08:12									9											20				
*08:11								w												20				
*08:15																				20				
*08:20						6	7											18	20		22			
*08:31, 12:01:01- 12:03:02, 12:06-12:08, 12:10-12:13, 12:17- 12:21, 12:23-12:26, 13:17												11												
*08:35																			19	20				
*11:01:01-11:01:04, 11:01:06, 11:01:08- 11:01:09, 11:01:11- 11:01:12, 11:08:01- 11:08:02, 11:10:01- 11:12:02, 11:14:01- 11:15, 11:19:01- 11:19:02, 11:24, 11:26, 11:27:02, 11:32- 11:33, 11:39, 11:51, 11:61-11:62, 11:66, 11:68, 11:74-11:75, 11:80-11:81, 11:90- 11:91, 11:94-11:95, 11:97						5												18		23				
*11:01:05, 11:01:10					5												16	18			23			
*11:01:07					5														18					
*11:02:01-11:04:02, 11:04:04-11:04:06, 11:06:01, 11:07, 11:18, 11:21, 11:34- 11:36, 11:38, 11:42- 11:43, 11:46, 11:57, 11:60, 11:65:01- 11:65:02, 11:70, 11:77- 11:78, 11:98							6												18		23			
*11:04:03, 11:06:02						6											16	18			23			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	Length of spec. PCR product(s)					
								145	100	175	205	250	130	175	215	155	250	245	165	115	225	200	220	125	220	165	105	60	65	Length of spec. PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.						
										35														47	*08:10, 08:12	*08:11				
25																									47	*08:15	*08:20			
																										*08:31, 12:01:01-	12:03:02, 12:06-12:08,	12:10-12:13, 12:17-	12:21, 12:23-12:26,	13:17
																									47	*08:35				
																										*11:01:01-11:01:04,	11:01:06, 11:01:08-	11:01:09, 11:01:11-	11:01:12, 11:08:01-	11:08:02, 11:10:01-
																										11:12:02, 11:14:01-	11:15, 11:19:01-	11:19:02, 11:24,	11:26, 11:27:02, 11:32-	11:33, 11:39, 11:51,
																										11:61-11:62, 11:66,	11:68, 11:74-11:75,	11:80-11:81, 11:90-	11:91, 11:94-11:95,	11:97
																										*11:01:05, 11:01:10				
																										*11:01:07				
																										*11:02:01-11:04:02,	11:04:04-11:04:06,	11:06:01, 11:07,	11:18, 11:21, 11:34-	11:36, 11:38, 11:42-
																										11:43, 11:46, 11:57,	11:60, 11:65:01-	11:65:02, 11:70, 11:77-	11:78, 11:98	
																										*11:04:03, 11:06:02				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.						

Lot No.: 76K

## **Lot-specific information**

[www.olerup-ssp.com](http://www.olerup-ssp.com)

IFU-02 Rev. No. 02 can be downloaded from

[www.olerup-ssp.com](http://www.olerup-ssp.com)

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[www.olerup-ssp.com](http://www.olerup-ssp.com)

Length of spec.	210	175	140	85	260	260	225	170	250	130	175	215	170	130	60	185	105	220	85	145	215	160	110	215	170	145	165	135	115	75
PCR product(s)																														
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24						
*11:09, 11:28:01-11:28:02, 11:87					5								14					18										23		
*11:13:01-11:13:02	1					6											16	18									23			
*11:16						6												18									23			
*11:17	1					6				12				16	18					22										
*11:20					5													18									23			
*11:23, 11:64					5	7											18	20								23				
*11:25, 11:55					6	7											18	20								23				
*11:27:01					5												18									23				
*11:29					5												18									23				
*11:31, 11:96					5												18									23				
*11:37					5												18		22											
*11:41, 11:48, 11:56					6												18		22											
*11:44, 11:85					6												18									23				
*11:45					5	7											18	20								23				
*11:47, 11:63					6												18									23				
*11:49					5												18									23				
*11:50					6												18									22				
*11:52	1				6				12	13		16		18											22					
*11:53					5				12					18												23				
*11:54:01					6				12		16		18													23				
*11:54:02					6				12					18												23				
*11:58:01					6						14			18												23				
*11:58:02					6						14			18												23				
*11:67								11											20											
*11:69, 11:82					5												18		21	23										
*11:72					5																						23			
*11:73, 11:79, 11:93					5												17	18									23			
*11:76					6												18									23	24			
*11:83					6							14			18											22				
*11:84					6									18													23			
*11:86														18													23			
*11:88					6									18																
*11:89	1				6					12					18											23				
*11:92					6																						23			
*12:04, 12:09									11				16																	
*12:05, 12:14-12:15									11			15																		
*12:22																														
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24						

25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	Length of spec. PCR product(s)		
												37															
												37													*11:09, 11:28:01- 11:28:02, 11:87		
												37													*11:13:01-11:13:02		
												30	36	37											*11:16		
													37													*11:17	
													36	37												*11:20	
													37													*11:23, 11:64	
													37													*11:25, 11:55	
												28														*11:27:01	
													37		41											*11:29	
													31													*11:31, 11:96	
														37												*11:37	
														37												*11:41, 11:48, 11:56	
														29												*11:44, 11:85	
														37		41										*11:45	
														37		41										*11:47, 11:63	
														29		41										*11:49	
														29		41										*11:50	
														37												*11:52	
														37												*11:53	
														37												*11:54:01	
														37												*11:54:02	
														30												*11:58:01	
															37											*11:58:02	
															35											*11:67	
															37											*11:69, 11:82	
															37											*11:72	
															37											*11:73, 11:79, 11:93	
															37											*11:76	
															30											*11:83	
															28											*11:84	
																37										*11:86	
																37										*11:88	
																35										*11:89	
																35										*11:92	
																	37										*12:04, 12:09
																	37										*12:05, 12:14-12:15
																	28										*12:22
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.			

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	130	60	185	105	220	85	145	110	210	170	145	145	145
PCR product(s)									250	170	215										215	160	215	135	115	75
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
*13:01:01-13:01:02, 13:01:04-13:01:06, 13:01:08, 13:06, 13:27- 13:28, 13:51, 13:59, 13:69, 13:79, 13:87, 13:91, 13:98, 13:102					6													18						23		
*13:01:03					6												16	18					23			
*13:02:01-13:02:03, 13:39, 13:41, 13:73, 13:96, 13:99					5													18					23			
*13:02:04, 13:16																		18					23			
*13:03:01-13:03:06, 13:33:01, 13:88, 13:90, 13:95					5													17	18			21	22			
*13:04, 13:75					6		9											18			21	23				
*13:05:01-13:05:02, 13:50:01-13:50:02					5								14					18					23			
*13:08					6													18	19			22				
*13:09					6													18			21	23				
*13:10		3			6													17	18				23			
*13:12, 13:38, 13:49					5													18			21	22				
*13:13					5	7												18	20	21	22					
*13:15					4	6																	23			
*13:18						6	7						14					18				23				
*13:19					4	6													19			22				
*13:21:01-13:21:02, 13:30						5												18			21	23				
*13:26					4	5							14									22				
*13:31						5												18				23				
*13:32						6		9										18			21	22				
*13:33:02-13:33:03						5												17	18		21	22				
*13:34						5												18				23	24			
*13:35, 13:80							6											18								
*13:36						5												18			22					
*13:37						5												17	18		22					
*13:40							6											18			22					
*13:42							6						14					18				23				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

Lot No.: 76K

## **Lot-specific information**

[www.olerup-ssp.com](http://www.olerup-ssp.com)

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[www.welchap.com](http://www.welchap.com)

Length of spec.	210	175	140	85	260	260	225	170	250	130	175	85	225	115	130	60	185	105	220	85	145	210	170	145	145	
PCR product(s)																										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
*13:43		2				6					11		13						18					23		
*13:45			2			5					11								18	20				23		
*13:46, 13:100						5													18					23		
*13:47						5	7											18	20	22						
*13:48, 13:58							6		9									18			21	22				
*13:53					4		6																22			
*13:54							6											18					23			
*13:55						5	7											18	20	21	22					
*13:57					4		6												19					23		
*13:60						5												18					22			
*13:61							6											18					23			
*13:64							6											18	19				23	24		
*13:65						5												18			21	22				
*13:66:01-13:66:02						5												17	18		21	23				
*13:67, 13:103																										
*13:72							6	9										18	19				22			
*13:76							6				12			16			18	19				22				
*13:77							6										18					23				
*13:81, 13:89, 13:94							6	9									17	18		21	22					
*13:83							6										18	19				23				
*13:84							6										18					22				
*13:85		3	4	5													17					22				
*13:92							6										18					23	24			
*13:93							6	9									18			21	23					
*13:101						5											17			21	22					
*16:08															14											
DRB3*01:14						5											18			22	24					
DRB3*02:16																										
DRB1 allele <sup>5</sup>																										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DRB1\*14 subtyping.

In addition, wells number 6, 12, 14, 21, 26, 27, 29, 31, 34, 36, 38, 42 and 44 to 46 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

250	210	120	250	220	160	125	230	175	200	80	145	100	175	205	250	130	175	215	155	250	245	165	115	225	200	220	125	125	105	60	65	Length of spec.	PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48										Well No.
				30	31		33																								*13:43		
25					31	33																									*13:45		
			29																												*13:46, 13:100		
																																*13:47	
																																*13:48, 13:58	
				30				36																								*13:53	
			29																													*13:54	
																																*13:55	
																																*13:57	
																																*13:60	
28		30						36																48								*13:61	
																																*13:64	
								32		36																					*13:65		
										36																						*13:66:01-13:66:02	
											38																					*13:67, 13:103	
																																*13:72	
																																*13:76	
		29	30					36																								*13:77	
																																*13:81, 13:89, 13:94	
																																*13:83	
																																*13:84	
																																*13:85	
																																*13:92	
																																*13:93	
																																*13:101	
																																*16:08	
25		28	29																													DRB3*01:14	
																																DRB3*02:16	
																																DRB1 allele <sup>5</sup>	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48								Well No.		

<sup>2</sup>The codon, and in parenthesis the nucleotide, in the 2<sup>nd</sup> and 3<sup>rd</sup> exon, matching the specificity-determining 3'-end of the primer is given. Codon and nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>3</sup>The codon, and in parenthesis the nucleotide, in the 2<sup>nd</sup> and 3<sup>rd</sup> exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Codon and nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The DRB1\*1466 allele has been renamed to DRB1\*14:32:02

**Lot No.: 76K****Lot-specific information****[www.olerup-ssp.com](http://www.olerup-ssp.com)**

<sup>5</sup>Primer mix 9: Specific PCR fragment of 130 bp in the DRB1\* 14:62, 14:65 and 14:78 and the DRB1\*03:12, 04:10-04:12, 04:67, 04:91, 08:06, 08:10, 08:12, 08:22, 13:04, 13:32, 13:48, 13:58, 13:75, 13:81, 13:89, 13:93-13:94 and 15:12 alleles. Specific PCR fragment of 250 bp in the DRB1\*14:05:01-14:05:03, 14:37, 14:43, 14:45, 14:56, 14:84, 14:91, 14:96 and 14:100 and the DRB1\*13:72 alleles.

Primer mix 11: Specific PCR fragment of 85 bp in the DRB1\*14:16, 14:22, 14:25, 14:32:01-14:32:02, 14:34, 14:49, 14:53, 14:69 and 14:74 and the DRB1\*01:14, 04:62, 13:43 and 13:45 alleles. Specific PCR fragment of 170 bp in the DRB1\*14:11 and DRB1\*11:67 alleles. Specific PCR fragment of 215 bp in the DRB1\*14:52 and the DRB1\* 08:05, 08:18, 08:24-08:25, 08:40, 12:01:01-12:03, 12:05-12:21, 12:23-12:26 and 13:17 alleles. Specific PCR fragment of 85 and 215 bp in the DRB1\*14:31 allele. Specific PCR fragment of 170 and 215 bp in the DRB1\*08:31, 08:4 and 12:04 alleles.

Primer mix 14: Specific PCR fragment of 60 bp in the DRB1\*14:22, 14:25, 14:53 and 14:73 and the DRB1\*08:08 alleles. Specific PCR fragment of 130 bp in the DRB1\*14:27 and the DRB1\*11:09, 11:28:01-11:28:02, 11:58:01-11:58:02, 11:83, 11:87, 13:05:01-13:05:02, 13:18, 13:26, 13:42, 13:50:01-13:50:02 and 16:08 alleles.

Primer mix 20: Specific PCR fragment of 110 bp in the DRB1\*14:25, 14:53, 14:58 and 14:69 and DRB1\*13:45 alleles. Specific PCR fragment of 160 bp in the DRB1\*14:04, 14:28, 14:31, 14:50, 14:68, 14:71, 14:73, 14:76, 14:79, 14:93, 08:20, 11:23, 11:25, 11:45, 11:55, 11:64, 13:13, 13:47, 13:55 alleles. Specific PCR fragment of 215 bp in the DRB1\*14:15 and the DRB1\*08:03:02, 08:09, 08:21, 08:27, 08:32, 08:35 and 08:38 alleles. Specific PCR fragments of 160 and 215 bp in the DRB1\*08:01:01-08:02:03, 08:04:01-08:04:05, 08:06, 08:07, 08:10, 08:12-08:17, 08:19, 08:22, 08:23, 08:26, 08:28, 08:30:01-08:30:02, 08:33, 08:34, 08:36, 08:37, 08:39 and 11:67 alleles. Specific PCR fragments of 110, 160 and 215 bp in the DRB1\*08:08 and 08:11 alleles. Not all specific PCR fragments may be obtained in alleles being amplified by more than one primer pair.

Primer mix 21: Specific PCR fragment of 170 bp in DRB1\*14:13, 14:63, 14:65, 14:78 and 14:85 and the DRB1\*03:12, 13:03:01-13:04, 13:12-13:13, 13:21:01-13:21:02, 13:30, 13:32-13:33:03, 13:38, 13:48-13:49, 13:55, 13:58, 13:65-13:66:02, 13:75, 13:81, 13:88-13:90, 13:93-13:95, 13:101 alleles. Specific PCR fragment of 215 bp in the DRB1\*14:24 and 14:37 and the DRB1\*11:69, 11:82 and 13:09 alleles.

Primer mix 24: Specific PCR fragment of 75 bp in the DRB1\*14:26 and the DRB1\*13:92 alleles. Specific PCR fragment of 115 bp in the DRB1\*14:36, 14:41 and 14:77 and the DRB1\*03:18, 03:43, 11:76, 13:34 and 13:64 and in the DRB3\*01:14 alleles. Specific PCR fragment of 135 bp in the DRB1\*1436 and DRB1\*0318 alleles. Specific PCR fragment of 165 bp in the DRB1\*14:90 allele.

Primer mix 25: Specific PCR fragment of 120 bp in the DRB1\*14:07:01-14:07:02, 14:22, 14:25, 14:49, 14:53, 14:68-14:69 and 14:93 and the DRB1\*01:14, 04:62, 04:69, 08:08, 08:15 and 13:45 and in the DRB3\*02:16 alleles. Specific PCR fragment of 210 bp in the DRB1\*14:56 allele. Specific PCR fragment of 250 bp in the DRB1\*14:44:01-14:44:02 and the DRB1\*03:35 alleles.

Primer mix 28: Specific PCR fragment of 160 bp in the DRB1\*14:88 allele. Specific PCR fragment of 230 bp in the DRB1\*14:38, 14:47, 14:50 and 14:98 and the DRB1\*03:01:02, 03:02:02, 03:05:03, 03:11:02, 03:13:02, 03:17, 03:24, 03:27, 03:35, 11:27:01, 11:84, 12:22, 13:33:02-13:33:03 and 13:61 and in the DRB3\*01:14 alleles.

Primer mix 29: Specific PCR fragment of 125 bp in the DRB1\*14:60 and 14:97 and the DRB1\*03:26, 03:33, 03:44, 11:44, 11:49-11:50 and 11:85 alleles. Specific PCR fragment of 175 bp in the DRB1\*14:48 and the DRB1\*03:38, 13:31, 13:46, 13:54, 13:77 and 13:100 and the DRB3\*01:14 alleles.

Primer mix 32: Specific PCR fragment of 100 bp in the DRB1\*14:13, 14:63, 14:78 and 14:85 and the DRB1\*03:12, 13:32, 13:65 and 13:93 alleles. Specific PCR fragment of 145 bp in the DRB1\*14:19 and 14:21 and the DRB1\*03:12, 13:10 and 13:85 alleles.

Primer mix 41: Specific PCR fragment of 115 bp in the DRB1\*14:91, 14:94 and 14:97 and in the DRB1\*03:04, 03:26, 03:33, 03:44, 11:29, 11:44, 11:47, 11:49-11:50, 11:63, 11:85, 13:60 and 13:84 alleles. Specific PCR fragment of 165 bp in the DRB1\*14:90 allele. Specific PCR fragment of 245 bp in the DRB1\*14:75 allele.

Primer mix 46: Specific PCR fragment of 105 bp in the DRB1\*14:92N allele. Specific PCR fragment of 165 bp in the DRB1\*14:88 allele. Specific PCR fragment of 220 bp in the DRB1\*14:87 and 14:89 alleles.

Primer mix 48: Specific PCR fragment of 65 bp in the DRB1\*14:98 and the DRB1\*11:27:01, 11:84, 12:22, 13:33:02-13:33:03 and 13:61 alleles. Specific PCR fragment of 190 bp in the DRB1\*14:45 allele. Specific PCR fragment of 225 bp in the DRB1\*03:35 allele.

'w', might be weakly amplified.

CELL LINE VALIDATION SHEET																	
DRB1*14 SSP subtyping kit																	
	Prod. No.:	Well															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>IHWG cell line DRB1</b>																	
1	9001 SA	*01:01															
2	9280 LK707	*15:02	*04:05														
3	9011 E4181324	*15:02															
4	9275 GU373	*03:01															
5	9009 KAS011	*16:01															
6	9353 SM	*04:07	*08:03														
7	9020 QBL	*03:01															
8	9025 DEU	*04:01															
9	9026 YAR	*04:02															
10	9107 LKT3	*04:05															
11	9051 PITOUT	*07:01															
12	9052 DBB	*07:01															
13	9004 JESTHOM	*01:01															
14	9071 OLGA	*08:02															
15	9075 DKB	*09:01															
16	9037 SWEIG007	*11:01															
17	9282 CTM3953540	*03:01	*13:01														
18	9257 32367	*09:01	*11:01														
19	9038 BM16	*12:01															
20	9059 SLE005	*13:02															
21	9064 AMALA	*14:02															
22	9056 KOSE	*13:02	*14:54														
23	9124 IHL	*08:03	*14:14														
24	9035 JBUSH	*11:01															
25	9049 IBW9	*07:01															
26	9285 WT49	*03:01															
27	9191 CH1007	*04:05	*10:01														
28	9320 BEL5GB	*04:16	*07:01														
29	9050 MOU	*07:01															
30	9021 RSH	*03:02															
31	9019 DUCAF	*03:01															
32	9297 HAG	*13:03															
33	9098 MT14B	*04:04															
34	9104 DHIF	*11:01															
35	9302 SSTO	*04:03															
36	9024 KT17	*04:03	*04:06														
37	9065 HHKB	*13:01															
38	9099 LZL	*14:02															
39	9315 CML	*03:01	*04:01														
40	9134 WHONP199	*07:01	*09:01														
41	9055 H0301	*13:02															
42	9066 TAB089	*08:03															
43	9076 T7526	*09:01															
44	9057 TEM	*14:01															
45	9239 SHJO	*07:01															
46	9013 SCHU	*15:01															
47	9045 TUBO	*11:04	*12:01														
48	9303 TER-ND	*01:03															

CELL LINE VALIDATION SHEET																				
DRB1*14 SSP subtyping kit																				
					Well															
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
					200737317	200737318	200737319	201079920	200737321	200737322	200737323	201079924	200737325	201079926	200737327	201079928	201079929	200737330	200737331	200737332
IHWC cell line	DRB1	Prod. No.:																		
1	9001 SA	*01:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280 LK707	*15:02	*04:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011 E4181324	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275 GU373	*03:01		-	+	-	-	-	-	+	-	-	-	-	-	-	-	+	-	
5	9009 KAS011	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353 SM	*04:07	*08:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
7	9020 QBL	*03:01		-	+	-	-	-	-	+	-	-	-	-	-	-	-	+	-	
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026 YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107 LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051 PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052 DBB	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004 JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071 OLGA	*08:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075 DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037 SWEIG007	*11:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
17	9282 CTM3953540	*03:01	*13:01	-	+	-	-	-	-	-	+	-	-	-	-	-	-	+	-	
18	9257 32367	*09:01	*11:01	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
19	9038 BM16	*12:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059 SLE005	*13:02		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
21	9064 AMALA	*14:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
22	9056 KOSE	*13:02	*14:54	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	
23	9124 IHL	*08:03	*14:14	-	+	-	+	-	+	-	-	-	-	-	-	-	-	-	-	
24	9035 JBUSH	*11:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
25	9049 IBW9	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285 WT49	*03:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	+	-	
27	9191 CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	9320 BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050 MOU	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021 RSH	*03:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	
31	9019 DUCAF	*03:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	+	-	
32	9297 HAG	*13:03		+	+	-	-	+	+	-	-	-	-	-	-	-	-	-	-	
33	9098 MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104 DHIF	*11:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
35	9302 SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024 KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065 HHKB	*13:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	+	-	
38	9099 LZL	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315 CML	*03:01	*04:01	-	+	-	-	-	-	-	+	-	-	-	-	-	-	+	-	
40	9134 WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055 H0301	*13:02		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
42	9066 TAB089	*08:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076 T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057 TEM	*14:01		-	+	-	-	-	+	-	-	-	+	-	-	-	-	-	-	
45	9239 SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013 SCHU	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045 TUBO	*11:04	*12:01	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	
48	9303 TER-ND	*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

CELL LINE VALIDATION SHEET																				
DRB1*14 SSP subtyping kit																				
					Well															
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
					201079933	200852034	200852035	200965036	200852037	201079938	200852039	200852040	201079941	200852042	201079943	200965044	200965045	201079946	201079947	201079948
					Prod. No.:															
					IHWC cell line	DRB1														
1	9001	SA			*01:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707			*15:02	*04:05	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011	E4181324			*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275	GU373			*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
5	9009	KAS011			*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353	SM			*04:07	*08:03	-	-	-	-	-	-	-	-	-	-	-	+	-	
7	9020	QBL			*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025	DEU			*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR			*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3			*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051	PITOUT			*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB			*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM			*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA			*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075	DKB			*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007			*11:01		-	-	-	+	-	-	-	-	-	-	-	-	-	
17	9282	CTM3953540			*03:01	*13:01	-	-	+	-	-	-	-	-	-	-	-	-	-	
18	9257	32367			*09:01	*11:01	-	-	-	+	-	-	-	-	-	-	-	-	-	
19	9038	BM16			*12:01		-	+	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005			*13:02		-	-	-	+	-	-	-	-	-	-	-	-	-	
21	9064	AMALA			*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056	KOSE			*13:02	*14:54	+	-	-	+	-	-	-	-	-	-	-	-	-	
23	9124	IHL			*08:03	*14:14	-	-	-	-	-	-	-	-	-	-	-	+	-	
24	9035	JBUSH			*11:01		-	-	-	+	-	-	-	-	-	-	-	-	-	
25	9049	IBW9			*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285	WT49			*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191	CH1007			*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	9320	BEL5GB			*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU			*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH			*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	
31	9019	DUCAF			*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297	HAG			*13:03		-	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098	MT14B			*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104	DHIF			*11:01		-	-	-	+	-	-	-	-	-	-	-	-	-	
35	9302	SSTO			*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17			*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065	HHKB			*13:01		-	-	-	+	-	-	-	-	-	-	-	-	-	
38	9099	LZL			*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315	CML			*03:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	9134	WHONP199			*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055	H0301			*13:02		-	-	-	+	-	-	-	-	-	-	-	-	-	
42	9066	TAB089			*08:03		-	-	-	-	-	-	-	-	-	-	-	+	-	
43	9076	T7526			*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057	TEM			*14:01		+	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239	SHJO			*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013	SCHU			*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045	TUBO			*11:04	*12:01	-	-	+	-	+	-	-	-	-	-	-	-	-	
48	9303	TER-ND			*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	

## CERTIFICATE OF ANALYSIS

### **Olerup SSP® DRB1\*14 SSP**

**Product number:** 101.117-12u/03u – without Taq pol.  
**Lot number:** 76K  
**Expiry date:** 2013-May-01  
**Number of tests:** 12 tests – Product No. 101.117-12u  
**Number of wells per test:** 3 tests – Product No. 101.117-03u  
**Number of wells per test:** 48

#### **Well specifications:**

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2007-373-01	17	2007-373-17	33	2010-799-33
2	2007-373-02	18	2007-373-18	34	2008-520-34
3	2010-799-03	19	2007-373-19	35	2008-520-35
4	2007-373-04	20	2010-799-20	36	2009-650-36
5	2007-373-05	21	2007-373-21	37	2008-520-37
6	2007-373-06	22	2007-373-22	38	2010-799-38
7	2007-373-07	23	2007-373-23	39	2008-520-39
8	2009-650-08	24	2010-799-24	40	2008-520-40
9	2009-650-09	25	2007-373-25	41	2010-799-41
10	2007-373-10	26	2010-799-26	42	2008-520-42
11	2007-373-11	27	2007-373-27	43	2010-799-43
12	2007-373-12	28	2010-799-28	44	2009-650-44
13	2010-799-13	29	2010-799-29	45	2009-650-45
14	2009-650-14	30	2007-373-30	46	2010-799-46
15	2007-373-15	31	2007-373-31	47	2010-799-47
16	2007-373-16	32	2007-373-32	48	2010-799-48

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 10, 14, 15, 19, 24, 27 to 29, 31, 38 to 46 and 48 were available.

The specificities of the primers in primer solutions 10, 14, 15, 19, 24, 27 to 29, 31, 38, 39, 42, 43, 45 and 48 were tested by separately adding one additional 5'-primer, respectively, one or several additional 3'-primers.

In primer solutions 40 and 47 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solution 44 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solutions 9, 10 and 14 one of the 5'-primers was not possible to test, and in primer solutions 17, 24, 25, 28, 29, 37, 41 and 48 one or more of the 3'-primers were not possible to test.

Additional primers in primer solutions 11, 20, 21, 25, 30, 32 and 41 were tested by separately adding one 5'-primer and/or one 3'-primer.

**DRB1\*14  
101.117-12u/03u – without Taq polymerase  
Lot No.: 76K**

**Product Insert  
General “Instructions for Use”  
IFU-02 Rev. No. 02 can be downloaded from  
Lot-specific information**

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**Results:** No false positive or false negative amplifications were obtained.

**Date of approval:** 2010-December-10

**Approved by:**

**Quality Control, Supervisor**

December 2010  
Rev. No.: 00u



For *In Vitro* Diagnostic Use.

## Declaration of Conformity

**Product name:** Olerup SSP® DRB1\*14

**Product number:** 101.117-12u/03u

**Lot number:** 76K

**Intended use:** DRB1\*14 high resolution histocompatibility testing

**Manufacturer:** Olerup SSP AB  
Hasselstigen 1  
SE-133 33 Saltsjöbaden, Sweden

**Phone:** +46-8-717 88 27

**Fax:** +46-8-717 88 18

We, Olerup SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at Olerup SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

The Authorized Representative located within the Community is: Olerup SSP AB.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom.  
(Notified Body number: 0088.)

Saltsjöbaden, Sweden  
2010-December-10

Olle Olerup  
Managing Director

**DRB1\*14**

**101.117-12u/03u – without Taq polymerase**

**Lot No.: 76K**

**Product Insert**

**Lot-specific information**

IFU-02 Rev. No. 02 can be downloaded from

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**General “Instructions for Use”**

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**Product Insert**

**Lot-specific information**

General “**Instructions for Use**”  
IFU-02 Rev. No. 02 can be downloaded from

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**Product Insert**

**Lot-specific information**

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**General “Instructions for Use”**

**[www.olerup-ssp.com](http://www.olerup-ssp.com)**

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Rev. No.: 00u



**0088**

For *In Vitro* Diagnostic Use.

**DRB1\*14**

**101.117-12u/03u – without Taq polymerase**

**Product Insert**

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**General “Instructions for Use”**

IFU-02 Rev. No. 02 can be downloaded from

**Lot No.: 76K**

**Lot-specific information**

**[www.olerup-ssp.com](http://www.olerup-ssp.com)**

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**Web page:** <http://www.olerup.com>

**Olerup Inc.**, 901 S. Bolmar St., Suite R, West Chester, PA 19382

**Tel:** 1-877-OLERUP1

**Fax:** 610-344-7989

**E-mail:** [info.us@olerup.com](mailto:info.us@olerup.com)

**Web page:** <http://www.olerup.com>

For information on *Olerup SSP* distributors worldwide, contact **Olerup GmbH**.