

Olerup SSP[®] DRB1*14

Product number:	101.117-12u/03u – without <i>Taq</i> pol.
Lot number:	77M
Expiry date:	2014-May-01
Number of tests:	12 tests – Product No. 101.117-12u 3 tests – Product No. 101.117-03u
Number of wells per test:	48
Storage - pre-aliquoted primers:	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. 77M.

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. 76K) was made.

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

Well	5'-primer	3'-primer	rationale
18	-	Modified	Increased yield of specific PCR product.
23	-	Modified	Increased yield of specific PCR product.
24	-	Modified	Increased yield of specific PCR product.
26	-	Modified	Increased yield of specific PCR product.
29	-	Added	Primer added for the *14:104 allele.
30	Moved	-	Primer pair to well 44, for improved resolution.
33	-	Modified	Improved specificity of primer pair.
39	-	Added	Primers added for the *14:108 and 14:109 alleles.
40	-	Modified, added	Improved specificity of primer pair, primer added for the *14:107 allele.
43	Added	-	Primer added for the *14:101 allele.
44	Added	Added	Primer pair from well 30, for improved resolution.

PRODUCT DESCRIPTION

DRB1*14 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1*14:01 to DRB1*14:109 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. '77M'.

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*01:08 allele will be amplified by primer mix 39, 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*14:109**, recognized by the HLA Nomenclature Committee in January 2011¹ 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.

¹DRB alleles listed on the IMGT/HLA web page 2011-January-14, release 3.3.0, www.ebi.ac.uk/imgt/hla.

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Lot-specific information

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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 131 alleles generate 110 amplification patterns that can be combined in 6105 homozygous and heterozygous combinations. 1336 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.

+++++--	-----	+-----	+-----	-----	*14:07:01, *14:106 = *14:07:01, *14:108
+++++--	-----	+-----	+-----	-----	*14:02, *14:88 = *14:47, *14:88 = *14:47, *14:92N
+++++--	-----	+-----	+-----	-----	*14:02, *14:38 = *14:38, *14:47 = *14:47, *14:54
+++++--	-----	+-----	+-----	-----	*14:48, *14:75 = *14:48, *14:97 = *14:51, *14:97
+++++--	-----	+-----	+-----	-----	*14:48, *14:54 = *14:48, *14:60 = *14:51, *14:60
+++++--	-----	+-----	+-----	-----	*14:51, *14:87 = *14:51, *14:92N
+++++--	-----	+-----	+-----	-----	*14:62, *14:106 = *14:62, *14:108
+++++--	-----	+-----	+-----	-----	*14:39, *14:106 = *14:39, *14:108
+++++--	-----	+-----	+-----	-----	*14:99, *14:106 = *14:99, *14:108
+++++--	-----	+-----	+-----	-----	*14:06:01, *14:99 = *14:29, *14:54 = *14:29, *14:99
+++++--	-----	+-----	+-----	-----	*14:35, *14:106 = *14:35, *14:108
+++++--	-----	+-----	+-----	-----	*14:90, *14:106 = *14:90, *14:108
+++++--	-----	+-----	+-----	-----	*14:26, *14:106 = *14:26, *14:108
+++++--	-----	+-----	+-----	-----	*14:01:01, *14:106 = *14:01:01, *14:108
+++++--	-----	+-----	+-----	-----	*14:88, *14:106 = *14:88, *14:108
+++++--	-----	+-----	+-----	-----	*14:38, *14:106 = *14:38, *14:108
+++++--	-----	+-----	+-----	-----	*14:97, *14:106 = *14:97, *14:108
+++++--	-----	+-----	+-----	-----	*14:60, *14:106 = *14:60, *14:108
+++++--	-----	+-----	+-----	-----	*14:75, *14:106 = *14:75, *14:108
+++++--	-----	+-----	+-----	-----	*14:82, *14:106 = *14:82, *14:108
+++++--	-----	+-----	+-----	-----	*14:86, *14:106 = *14:86, *14:108
+++++--	-----	+-----	+-----	-----	*14:87, *14:106 = *14:92N, *14:106 = *14:92N, *14:108
+++++--	-----	+-----	+-----	-----	*14:54, *14:106 = *14:54, *14:108
+++++--	-----	+-----	+-----	-----	*14:70, *14:106 = *14:70, *14:108
+++++--	-----	+-----	+-----	-----	*14:06:01, *14:70 = *14:70, *14:83
+++++--	-----	+-----	+-----	-----	*14:58, *14:106 = *14:58, *14:108
+++++--	-----	+-----	+-----	-----	*14:101, *14:106 = *14:101, *14:108
+++++--	-----	+-----	+-----	-----	*14:33, *14:87 = *14:33, *14:92N
+++++--	-----	+-----	+-----	-----	*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
+++++--	-----	+-----	+-----	-----	*14:49, *14:82 = *14:49, *14:101
+++++--	-----	+-----	+-----	-----	*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, *14:60 = *14:18, *14:104
+++++--	-----	+-----	+-----	-----	*14:18, *14:87 = *14:18, *14:92N
+++++--	-----	+-----	+-----	-----	*14:07:01, *14:55 = *14:44:02, *14:55
+++++--	-----	+-----	+-----	-----	*14:05:01, *14:22 = *14:22, *14:56

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+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *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 = *14:44:01, *14:105
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:25, *14:35 = *14:53, *14:54
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:22, *14:58 = *14:25, *14:54
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:22, *14:82 = *14:22, *14:101
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:07:01, *14:105 = *14:22, *14:54 = *14:44:02, *14:105
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *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
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *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, *14:60 = *14:42, *14:104
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:42, *14:87 = *14:42, *14:92N
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:36, *14:60 = *14:36, *14:104
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *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, *14:60 = *14:44:01, *14:104
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *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, *14:60 = *14:14, *14:104
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *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 = *14:07:01, *14:104 = *14:44:02, *14:60 = *14:44:02, *14:104
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:07:01, *14:75 = *14:44:02, *14:75
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:07:01, *14:82 = *14:07:01, *14:101 = *14:44:02, *14:82
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:07:01, *14:70 = *14:44:02, *14:70
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *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
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *14:55, *14:103 = *14:75, *14:84
+++++--- +++++--- +-----+ +-----+ +-----+ +-----+ *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

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+++++	-----	++----	-----	-----	-----	*14:55, *14:82 = *14:55, *14:101
+++++	-----	++----	-----	-----	-----	*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
+++++	-----	++----	-----	-----	-----	*14:54, *14:107 = *14:58, *14:107
+++++	-----	++----	-----	-----	-----	*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
+++++	-----	++----	-----	-----	-----	*14:05:03, *14:105 = *14:62, *14:105
+++++	-----	++----	-----	-----	-----	*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
+++++	-----	++----	-----	-----	-----	*14:32:01, *14:103 = *14:74, *14:103
+++++	-----	++----	-----	-----	-----	*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, *14:60 = *14:43, *14:104
+++++	-----	++----	-----	-----	-----	*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, *14:60 = *14:56, *14:104
+++++	-----	++----	-----	-----	-----	*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 = *14:91, *14:104
+++++	-----	++----	-----	-----	-----	*14:60, *14:96 = *14:96, *14:104
+++++	-----	++----	-----	-----	-----	*14:45, *14:60 = *14:45, *14:104
+++++	-----	++----	-----	-----	-----	*14:05:01, *14:60 = *14:05:01, *14:104
+++++	-----	++----	-----	-----	-----	*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,

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*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 = *14:26, *14:103 = *14:62, *14:90 = *14:90,
*14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *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 = *14:60, *14:103 = *14:62, *14:97 = *14:97,
*14:103 = *14:103, *14:104
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:03, *14:60 = *14:05:03, *14:104 = *14:60, *14:62 = *14:62,
*14:104
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:87, *14:103 = *14:92N, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:03, *14:75 = *14:54, *14:103 = *14:62, *14:75 = *14:62,
*14:103 = *14:75, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:03, *14:82 = *14:62, *14:82 = *14:62, *14:101
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:03, *14:70 = *14:62, *14:70
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *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
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *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 = *14:39, *14:104
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:10, *14:75 = *14:39, *14:75
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:10, *14:82 = *14:39, *14:82 = *14:39, *14:101
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *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
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:105 = *14:23:01, *14:105
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:82, *14:105 = *14:101, *14:105
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *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
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:34, *14:82 = *14:34, *14:101
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:32:01 = *14:08, *14:74 = *14:23:01, *14:32:01 =
*14:23:01, *14:74 = *14:34, *14:54
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:16, *14:82 = *14:16, *14:101
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *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

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+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *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, *14:75 = *14:74, *14:75
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:32:01, *14:82 = *14:32:01, *14:101 = *14:74, *14:82 = *14:74,
*14:101
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:32:01, *14:70 = *14:70, *14:74
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *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
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:60, *14:99 = *14:99, *14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:82, *14:99 = *14:99, *14:101
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:87, *14:99 = *14:92N, *14:99
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:54, *14:99 = *14:99, *14:99
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:60, *14:95 = *14:95, *14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:60, *14:64 = *14:64, *14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:60, *14:72 = *14:72, *14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:87, *14:95 = *14:92N, *14:95
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:54, *14:95 = *14:64, *14:82 = *14:82, *14:95
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:64, *14:87 = *14:64, *14:92N
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *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
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:59, *14:60 = *14:59, *14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:97 = *14:23:01, *14:97
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:60 = *14:08, *14:104 = *14:23:01, *14:60 = *14:23:01,
*14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:59, *14:87 = *14:59, *14:92N
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:54, *14:59 = *14:59, *14:86
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:75 = *14:23:01, *14:75
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:82 = *14:08, *14:101 = *14:23:01, *14:82
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:70 = *14:23:01, *14:70
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *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
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:54 = *14:23:01, *14:54
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:58, *14:60 = *14:58, *14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:58, *14:87 = *14:58, *14:92N
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:35, *14:60 = *14:35, *14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:35, *14:82 = *14:35, *14:101
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:35, *14:87 = *14:35, *14:92N
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:26, *14:97 = *14:60, *14:90 = *14:90, *14:97 = *14:90,
*14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:26, *14:60 = *14:26, *14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:82, *14:90 = *14:90, *14:101
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:87, *14:90 = *14:90, *14:92N
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:26, *14:75 = *14:26, *14:90 = *14:54, *14:90 = *14:75, *14:90
= *14:90, *14:90
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:26, *14:82 = *14:26, *14:101
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:26, *14:87 = *14:26, *14:92N
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:26, *14:26 = *14:26, *14:54
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:01:01, *14:60 = *14:01:01, *14:104
+++++--- +-----+ +-----+ +-----+ +-----+ +-----+ *14:01:01, *14:82 = *14:01:01, *14:101

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++-----	-----+	*14:01:01, *14:87 = *14:01:01, *14:92N
++-----	-----	*14:01:01, *14:01:01 = *14:01:01, *14:54
++-----	-----+	*14:60, *14:88 = *14:88, *14:104
++-----	-----+	*14:38, *14:60 = *14:38, *14:104
++-----	-----+	*14:82, *14:88 = *14:88, *14:101
++-----	-----+	*14:38, *14:82 = *14:38, *14:101
++-----	-----+	*14:38, *14:87 = *14:38, *14:88 = *14:38, *14:92N = *14:54, *14:88 = *14:87, *14:88 = *14:88, *14:88 = *14:88, *14:92N
++-----	-----	*14:38, *14:38 = *14:38, *14:54
++-----	-----+	*14:82, *14:97 = *14:97, *14:101
++-----	-----+	*14:87, *14:97 = *14:92N, *14:97
++-----	-----+	*14:54, *14:97 = *14:60, *14:75 = *14:60, *14:97 = *14:75, *14:97 = *14:75, *14:104 = *14:97, *14:97 = *14:97, *14:104
++-----	-----+	*14:60, *14:82 = *14:60, *14:101 = *14:82, *14:104 = *14:101, *14:104
++-----	-----	*14:60, *14:70 = *14:70, *14:104
++-----	-----+	*14:60, *14:86 = *14:86, *14:104
++-----	-----+	*14:60, *14:87 = *14:60, *14:92N = *14:92N, *14:104
++-----	-----+	*14:54, *14:60 = *14:54, *14:104 = *14:60, *14:60 = *14:60, *14:104
++-----	-----+	*14:75, *14:82 = *14:75, *14:101
++-----	-----+	*14:75, *14:87 = *14:75, *14:92N
++-----	-----+	*14:54, *14:75 = *14:75, *14:75
++-----	-----+	*14:70, *14:82 = *14:70, *14:101
++-----	-----+	*14:82, *14:86 = *14:86, *14:101
++-----	-----+	*14:82, *14:87 = *14:82, *14:92N = *14:87, *14:101 = *14:92N, *14:101
++-----	-----+	*14:54, *14:82 = *14:54, *14:101 = *14:82, *14:82 = *14:82, *14:101
++-----	-----+	*14:70, *14:87 = *14:70, *14:92N
++-----	-----+	*14:86, *14:87 = *14:86, *14:92N
++-----	-----+	*14:54, *14:86 = *14:86, *14:86
++-----	-----+	*14:54, *14:87 = *14:54, *14:92N = *14:87, *14:92N = *14:92N, *14:92N
++-----	-----+	*14:64, *14:101 = *14:95, *14:101
++++	-----	*14:05:01, *14:109 = *14:43, *14:109
++++	-----	*14:05:01, *14:19 = *14:19, *14:43
++++	-----	*14:19, *14:95 = *14:95, *14:109
++++	-----	*14:19, *14:64 = *14:64, *14:109
++++	-----	*14:19, *14:59 = *14:59, *14:109
++++	-----	*14:18, *14:19 = *14:18, *14:109
++++	-----	*14:02, *14:95 = *14:51, *14:95
++++	-----	*14:02, *14:64 = *14:18, *14:30 = *14:42, *14:106 = *14:42, *14:108 = *14:51, *14:64
++++	-----	*14:36, *14:106 = *14:36, *14:108
++++	-----	*14:44:01, *14:106 = *14:44:01, *14:108
++++	-----	*14:02, *14:59 = *14:51, *14:59
++++	-----	*14:09, *14:18 = *14:14, *14:106 = *14:14, *14:108
++++	-----	*14:02, *14:18 = *14:18, *14:51
++++	-----	*14:44:02, *14:106 = *14:44:02, *14:108
++++	-----	*14:43, *14:106 = *14:43, *14:108
++++	-----	*14:56, *14:106 = *14:56, *14:108
++++	-----	*14:91, *14:106 = *14:91, *14:108
++++	-----	*14:96, *14:106 = *14:96, *14:108
++++	-----	*14:45, *14:106 = *14:45, *14:108
++++	-----	*14:05:01, *14:106 = *14:05:01, *14:108
++++	-----	*14:103, *14:106 = *14:103, *14:108
++++	-----	*14:05:03, *14:106 = *14:05:03, *14:108
++++	-----	*14:72, *14:106 = *14:72, *14:108
++++	-----	*14:08, *14:106 = *14:08, *14:108
++++	-----	*14:06:01, *14:95 = *14:95, *14:106 = *14:95, *14:108
++++	-----	*14:06:01, *14:64 = *14:17, *14:18 = *14:18, *14:33 = *14:64, *14:106 = *14:64, *14:108
++++	-----	*14:06:01, *14:59 = *14:59, *14:106 = *14:59, *14:108

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+++---	---+++	---+++	---+++	---+++	---+++	*14:18, *14:80 = *14:23:01, *14:106 = *14:23:01, *14:108
+++---	---+++	---+++	---+++	---+++	---+++	*14:06:01, *14:18 = *14:18, *14:106 = *14:18, *14:108
+++---	---+++	---+++	---+++	---+++	---+++	*14:09, *14:64 = *14:14, *14:33
+++---	---+++	---+++	---+++	---+++	---+++	*14:14, *14:17 = *14:42, *14:80
+++---	---+++	---+++	---+++	---+++	---+++	*14:30, *14:64 = *14:33, *14:42
+++---	---+++	---+++	---+++	---+++	---+++	*14:09, *14:42 = *14:14, *14:30
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:21 = *14:21, *14:43
+++---	---+++	---+++	---+++	---+++	---+++	*14:17, *14:59 = *14:33, *14:59
+++---	---+++	---+++	---+++	---+++	---+++	*14:23:01, *14:33 = *14:64, *14:80
+++---	---+++	---+++	---+++	---+++	---+++	*14:17, *14:95 = *14:33, *14:95
+++---	---+++	---+++	---+++	---+++	---+++	*14:17, *14:64 = *14:33, *14:64
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:98 = *14:45, *14:98
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:94 = *14:91, *14:94
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:03, *14:94 = *14:94, *14:103
+++---	---+++	---+++	---+++	---+++	---+++	*14:20, *14:36 = *14:23:01, *14:41
+++---	---+++	---+++	---+++	---+++	---+++	*14:18, *14:44:01 = *14:18, *14:44:02
+++---	---+++	---+++	---+++	---+++	---+++	*14:14, *14:77 = *14:36, *14:40 = *14:36, *14:77
+++---	---+++	---+++	---+++	---+++	---+++	*14:14, *14:41 = *14:36, *14:41
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:78 = *14:23:01, *14:78
+++---	---+++	---+++	---+++	---+++	---+++	*14:18, *14:91 = *14:18, *14:103
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:18 = *14:05:03, *14:18
+++---	---+++	---+++	---+++	---+++	---+++	*14:18, *14:95 = *14:20, *14:95 = *14:81, *14:95
+++---	---+++	---+++	---+++	---+++	---+++	*14:18, *14:64 = *14:20, *14:64 = *14:64, *14:81
+++---	---+++	---+++	---+++	---+++	---+++	*14:18, *14:59 = *14:20, *14:59 = *14:59, *14:81
+++---	---+++	---+++	---+++	---+++	---+++	*14:18, *14:18 = *14:18, *14:20 = *14:18, *14:81
+++---	---+++	---+++	---+++	---+++	---+++	*14:20, *14:81 = *14:81, *14:81
+++---	---+++	---+++	---+++	---+++	---+++	*14:43, *14:44:01 = *14:43, *14:44:02
+++---	---+++	---+++	---+++	---+++	---+++	*14:42, *14:91 = *14:42, *14:103
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:42 = *14:05:03, *14:42
+++---	---+++	---+++	---+++	---+++	---+++	*14:36, *14:91 = *14:36, *14:103
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:36 = *14:05:03, *14:36
+++---	---+++	---+++	---+++	---+++	---+++	*14:44:01, *14:100 = *14:44:02, *14:100
+++---	---+++	---+++	---+++	---+++	---+++	*14:44:01, *14:91 = *14:44:01, *14:103 = *14:44:02, *14:91
+++---	---+++	---+++	---+++	---+++	---+++	*14:44:01, *14:96 = *14:44:02, *14:96
+++---	---+++	---+++	---+++	---+++	---+++	*14:44:01, *14:45 = *14:44:02, *14:45
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:44:01 = *14:05:01, *14:44:02 = *14:05:03, *14:44:01 = *14:14, *14:56 = *14:44:01, *14:56 = *14:44:02, *14:56
+++---	---+++	---+++	---+++	---+++	---+++	*14:14, *14:91 = *14:14, *14:103
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:14 = *14:05:03, *14:14
+++---	---+++	---+++	---+++	---+++	---+++	*14:34, *14:44:01 = *14:34, *14:44:02
+++---	---+++	---+++	---+++	---+++	---+++	*14:44:01, *14:72 = *14:44:02, *14:72
+++---	---+++	---+++	---+++	---+++	---+++	*14:08, *14:44:01 = *14:08, *14:44:02
+++---	---+++	---+++	---+++	---+++	---+++	*14:44:01, *14:95 = *14:44:02, *14:95
+++---	---+++	---+++	---+++	---+++	---+++	*14:44:01, *14:64 = *14:44:02, *14:64
+++---	---+++	---+++	---+++	---+++	---+++	*14:44:01, *14:59 = *14:44:02, *14:59
+++---	---+++	---+++	---+++	---+++	---+++	*14:23:01, *14:44:01 = *14:23:01, *14:44:02
+++---	---+++	---+++	---+++	---+++	---+++	*14:14, *14:93 = *14:44:01, *14:93
+++---	---+++	---+++	---+++	---+++	---+++	*14:14, *14:68 = *14:44:01, *14:68
+++---	---+++	---+++	---+++	---+++	---+++	*14:11, *14:44:01 = *14:11, *14:44:02
+++---	---+++	---+++	---+++	---+++	---+++	*14:42, *14:44:01 = *14:42, *14:44:02
+++---	---+++	---+++	---+++	---+++	---+++	*14:36, *14:44:01 = *14:36, *14:44:02
+++---	---+++	---+++	---+++	---+++	---+++	*14:14, *14:36 = *14:36, *14:36
+++---	---+++	---+++	---+++	---+++	---+++	*14:14, *14:44:01 = *14:14, *14:44:02 = *14:44:01, *14:44:01 = *14:44:01, *14:44:02
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:84 = *14:23:01, *14:84
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:93 = *14:56, *14:93
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:68 = *14:56, *14:68
+++---	---+++	---+++	---+++	---+++	---+++	*14:04, *14:34 = *14:31, *14:34
+++---	---+++	---+++	---+++	---+++	---+++	*14:34, *14:76 = *14:34, *14:79
+++---	---+++	---+++	---+++	---+++	---+++	*14:08, *14:76 = *14:08, *14:79
+++---	---+++	---+++	---+++	---+++	---+++	*14:72, *14:76 = *14:72, *14:79
+++---	---+++	---+++	---+++	---+++	---+++	*14:34, *14:91 = *14:34, *14:103
+++---	---+++	---+++	---+++	---+++	---+++	*14:05:01, *14:34 = *14:05:03, *14:34

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+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:11, *14:91 = *14:11, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:11 = *14:05:03, *14:11
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:72, *14:91 = *14:72, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:72 = *14:05:03, *14:72
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:91 = *14:08, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:08 = *14:05:03, *14:08
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:43, *14:91 = *14:43, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:43 = *14:05:03, *14:43 = *14:23:01, *14:43 =
*14:43, *14:43
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:65 = *14:23:01, *14:65
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:37 = *14:23:01, *14:37
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:91, *14:95 = *14:95, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:64, *14:91 = *14:64, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:95 = *14:05:03, *14:95
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:64 = *14:05:03, *14:64
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:56, *14:91 = *14:56, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:56 = *14:05:03, *14:56 = *14:23:01, *14:56 =
*14:56, *14:56
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:59, *14:91 = *14:59, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:59 = *14:05:03, *14:59 = *14:59, *14:96
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:91, *14:100 = *14:100, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:100 = *14:05:03, *14:100 = *14:23:01, *14:100
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:91, *14:96 = *14:96, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:45, *14:91 = *14:45, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:91 = *14:05:01, *14:103 = *14:05:03, *14:91 =
*14:23:01, *14:91 = *14:23:01, *14:103 = *14:91, *14:91 = *14:91,
*14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:96 = *14:05:03, *14:96 = *14:23:01, *14:96 =
*14:96, *14:96
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:45 = *14:05:03, *14:45 = *14:23:01, *14:45 =
*14:45, *14:45
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:01, *14:05:01 = *14:05:01, *14:05:03 = *14:05:01,
*14:23:01 = *14:05:03, *14:23:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:05:03, *14:103 = *14:103, *14:103
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:34 = *14:23:01, *14:34
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:08, *14:08 = *14:08, *14:23:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:23:01, *14:59 = *14:59, *14:59
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:64, *14:95 = *14:95, *14:95
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:16, *14:27 = *14:40, *14:105
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:03:01, *14:105 = *14:27, *14:74 = *14:27, *14:105
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:16, *14:77 = *14:74, *14:77
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:03:01, *14:16 = *14:16, *14:40 = *14:40, *14:74
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:20, *14:22 = *14:49, *14:105
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:03:01, *14:22 = *14:22, *14:27
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:03:01, *14:53 = *14:27, *14:53
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:03:01, *14:25 = *14:25, *14:27 = *14:27, *14:69
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:49 = *14:31, *14:49
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:49, *14:76 = *14:49, *14:79
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:53, *14:74 = *14:53, *14:105
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:25, *14:74 = *14:25, *14:105 = *14:69, *14:105
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:22, *14:74 = *14:22, *14:105
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:22, *14:28 = *14:25, *14:28
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:22, *14:50 = *14:25, *14:50
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:22, *14:71 = *14:25, *14:71
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:22 = *14:04, *14:25 = *14:22, *14:31 = *14:25, *14:31
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:22, *14:93 = *14:25, *14:93
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:22, *14:68 = *14:25, *14:68
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:22, *14:107 = *14:25, *14:107
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *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

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----	----	----	----	----	----	*14:25, *14:25 = *14:25, *14:69
----	----	----	----	----	----	*14:16, *14:84 = *14:74, *14:84
----	----	----	----	----	----	*14:04, *14:105 = *14:31, *14:105
----	----	----	----	----	----	*14:76, *14:105 = *14:79, *14:105
----	----	----	----	----	----	*14:73, *14:74 = *14:73, *14:105
----	----	----	----	----	----	*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
----	----	----	----	----	----	*14:76, *14:104 = *14:79, *14:104
----	----	----	----	----	----	*14:10, *14:16 = *14:16, *14:57 = *14:57, *14:74
----	----	----	----	----	----	*14:74, *14:105 = *14:105, *14:105
----	----	----	----	----	----	*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, *14:106 = *14:12:01, *14:51
----	----	----	----	----	----	*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 = *14:33, *14:109
----	----	----	----	----	----	*14:19, *14:106 = *14:106, *14:109
----	----	----	----	----	----	*14:02, *14:33 = *14:17, *14:51 = *14:30, *14:106 = *14:33, *14:51
----	----	----	----	----	----	*14:09, *14:106 = *14:51, *14:80
----	----	----	----	----	----	*14:02, *14:106 = *14:06:01, *14:51 = *14:51, *14:106 = *14:51, *14:108
----	----	----	----	----	----	*14:13, *14:21 = *14:21, *14:24
----	----	----	----	----	----	*14:17, *14:109 = *14:21, *14:109
----	----	----	----	----	----	*14:02, *14:21 = *14:17, *14:19 = *14:19, *14:21
----	----	----	----	----	----	*14:06:01, *14:109 = *14:19, *14:108 = *14:108, *14:109
----	----	----	----	----	----	*14:02, *14:17 = *14:06:01, *14:30
----	----	----	----	----	----	*14:02, *14:80 = *14:06:01, *14:09
----	----	----	----	----	----	*14:06:01, *14:48 = *14:48, *14:108
----	----	----	----	----	----	*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
----	----	----	----	----	----	*14:19, *14:51 = *14:51, *14:109
----	----	----	----	----	----	*14:02, *14:51 = *14:51, *14:51
----	----	----	----	----	----	*14:13, *14:109 = *14:24, *14:109
----	----	----	----	----	----	*14:13, *14:19 = *14:19, *14:24
----	----	----	----	----	----	*14:19, *14:48 = *14:48, *14:109
----	----	----	----	----	----	*14:02, *14:109 = *14:19, *14:109 = *14:109, *14:109
----	----	----	----	----	----	*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 = *14:17, *14:106 = *14:20, *14:33 = *14:33, *14:106 = *14:33, *14:108
----	----	----	----	----	----	*14:06:01, *14:106 = *14:20, *14:106 = *14:106, *14:106 = *14:106, *14:108
----	----	----	----	----	----	*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, *14:108 = *14:20, *14:108 = *14:108, *14:108
----	----	----	----	----	----	*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

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-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *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
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:03:01, *14:67 = *14:67, *14:67
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:03:01, *14:89 = *14:89, *14:89
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:98 = *14:50, *14:98
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:12:01, *14:78 = *14:20, *14:78 = *14:78, *14:78
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:12:01, *14:12:01 = *14:12:01, *14:20
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:10, *14:76 = *14:10, *14:79
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:11, *14:71 = *14:11, *14:107
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:11 = *14:11, *14:31
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:31, *14:71 = *14:31, *14:107
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:31, *14:76 = *14:31, *14:79
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:31 = *14:31, *14:31 = *14:31, *14:61
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:73, *14:76 = *14:73, *14:79
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:61, *14:73 = *14:73, *14:73
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:28, *14:71 = *14:28, *14:107
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:28, *14:76 = *14:28, *14:79
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:28 = *14:28, *14:28 = *14:28, *14:61
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:71, *14:93 = *14:93, *14:107
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:68, *14:71 = *14:68, *14:107
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:93 = *14:68, *14:76 = *14:68, *14:79 = *14:76, *14:93
= *14:79, *14:93
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:61, *14:93 = *14:68, *14:93 = *14:93, *14:93
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:61, *14:68 = *14:68, *14:68
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:50, *14:71 = *14:50, *14:107
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:50, *14:76 = *14:50, *14:79
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:50 = *14:50, *14:50 = *14:50, *14:61
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:71, *14:76 = *14:71, *14:79
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:71 = *14:04, *14:107 = *14:61, *14:71 = *14:71,
*14:71 = *14:71, *14:107
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:76 = *14:04, *14:79
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:04, *14:04 = *14:04, *14:61
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:76, *14:107 = *14:79, *14:107
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:61, *14:107 = *14:107, *14:107
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *14:61, *14:76 = *14:61, *14:79 = *14:76, *14:79 = *14:79, *14:79

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 ¹	Size of contr. band ²	Amplified DRB1*14 alleles ³	Other amplified DRB alleles ^{3,4}
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 ^w , 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, 14:99-14:101, 14:103	*11:13:01-11:13:02, 11:17, 11:52, 11:89
2 ^b	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, 14:101, 14:104- 14:105	*03:10, 13:43, 13:45
3	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, 14:106, 14:108-14:109	*13:10, 13:85
4 ⁵	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,	*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, 13:104

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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, 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, 14:102, 14:109	*03:02:01-03:02:02, 03:05:01- 03:05:03, 03:09, 03:14, 03:17, 03:27, 03:29, 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, 11:49:01, 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, 11:99-11:101, 13:02:01-13:02:03, 13:03:01- 13:03:06, 13:05:01-13:05:02, 13:07:01-13:07:02, 13:12:01- 13:14:03, 13:21:01-13:21:02, 13:23:01-13:23:02, 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, 13:104, 13:107, DRB3*01:14
6	260 bp	515 bp	*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, 14:99-14:101, 14:103- 14:106, 14:108	*03:01:01:01-03:01:11, 03:03- 03:04:01, 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, 03:58-03:60, 08:20, 11:02:01-11:04:07, 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, 11:46:01- 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, 11:102, 13:01:01-13:01:08, 13:04, 13:06, 13:08-13:11:02, 13:15,

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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, 14:102	*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, 14:107	*08:08, 08:11 ^w
9^{5,9}	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, 14:103	*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, 13:108, 15:12
10	175 bp	430 bp	*14:10, 14:39, 14:57	*04:62, 04:69
11^{5,10}	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, 14:105	*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	225 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, 14:33, 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, 14:101, 14:103, 14:106	*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^{5,7}	115 bp	430 bp	*14:01:01-14:01:03, 14:04, 14:07:01-14:08, 14:10, 14:16, 14:22,	*03:10, 11:52, 13:43

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14 ^{5,11}	60 bp, 130 bp	515 bp	*14:22, 14:25, 14:27, 14:53, 14:73, 14:105	*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
15	185 bp	430 bp	*14:28-14:29, 14:99	*03:20, 12:05, 12:14-12:15
16 ^{5,7,8}	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
17	220 bp	430 bp	*14:19, 14:21, 14:43, 14:109	*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
18 ^{5,7}	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, 14:99-14:101, 14:103-14:105	*03:01:01:01-03:01:11, 03:04:01-03:26, 03:28, 03:30-03:37, 03:39-03:41, 03:43-03:52, 03:54-03:59, 08:20, 11:01:01-11:04:07, 11:06:01-11:21, 11:23-11:29, 11:31-11:66, 11:68-11:70, 11:73-11:91, 11:93-11:102, 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, 13:105-13:113N, DRB3*01:14
19	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, 13:107

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20 ^{5,12}	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, 14:102, 14:107	*08:01:01-08:04:06, 08:06-08:17, 08:19-08:23, 08:26-08:28, 08:30:01-08:30:02, 08:32-08:39, 08:42, 11:23, 11:25, 11:45, 11:55, 11:64, 11:67, 13:13, 13:45, 13:47, 13:55
21 ¹³	170 bp, 215 bp	515 bp	*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, 13:12:01-13:13, 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, 13:108
22	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, 14:96-14:106, 14:108- 14:109	*03:02:01-03:03, 03:06, 03:17, 03:26-03:27, 03:31, 03:35, 03:38, 03:41, 03:60, 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, 13:12:01-13:13, 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, 13:108, DRB3*01:14
23 ⁶	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	*03:01:01:01-03:01:11, 03:04:01- 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, 03:54-03:59, 11:01:01- 11:01:06, 11:01:08-11:04:07, 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, 11:49:01, 11:51, 11:53-11:55, 11:57-11:66, 11:68-11:70, 11:72-11:82, 11:84- 11:87, 11:89-11:102, 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, 13:61:01-13:64, 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,

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24 ^{5,14}	75 bp, 125 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, DRB3*01:14
25 ^{5,15}	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, DRB3*02:16
26	250 bp	515 bp	*14:01:01-14:01:03	
27	220 bp	515 bp	*14:46	
28 ¹⁶	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, 13:61:01, DRB3*01:14
29 ^{5,17}	125 bp, 175 bp, 220 bp	515 bp	*14:48, 14:60, 14:97, 14:104	*03:14-03:15, 03:26, 03:33, 03:38, 03:44, 11:44, 11:49:01-11:50, 11:85, 13:31, 13:46, 13:54, 13:77, 13:100, 13:106, DRB3*01:14
30	190 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, 14:78, 14:80- 14:81, 14:83, 14:95, 14:106, 14:108	*03:01:01:01-03:01:11, 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, 03:58-03:60, 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, 13:61:01, 13:69, 13:71, 13:77-13:80, 13:87, 13:91-13:93, 13:98, 13:102, 13:105, 13:110-13:113N, 15:32
31 ⁵	80 bp	515 bp	*14:35, 14:53, 14:72	*03:10, 11:31, 11:96, 13:43, 13:45
32 ^{5,18}	100 bp, 145 bp	430 bp	*14:13, 14:19, 14:21, 14:63, 14:78, 14:85, 14:109	*03:12, 13:10, 13:32, 13:65, 13:85, 13:93
33	175 bp	430 bp	*14:01:01-14:01:03, 14:07:01-14:08, 14:16, 14:22, 14:25-14:26, 14:32:01-14:32:02, 14:34- 14:35, 14:38-14:39, 14:49, 14:53-14:55,	*03:10, 13:43, 13:45

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34	205 bp	515 bp	*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, 14:107	*08:04:01, 08:04:04-08:04:06, 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
36⁵	130 bp	515 bp	*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, 13:61:01, 13:65, 13:67, 13:69, 13:73, 13:77, 13:79-13:80, 13:85, 13:87, 13:91- 13:93, 13:96:01, 13:98-13:99, 13:102-13:105, 13:109-13:110, 13:112-13:113N
37	175 bp	430 bp		*03:08, 11:01:01-11:04:07, 11:06:01-11:21, 11:23-11:29, 11:31-11:66, 11:68-11:70, 11:72- 11:102
38	215 bp	515 bp	*14:37, 14:100	*13:72
39^{5,19}	120 bp, 155 bp	430 bp	*14:18, 14:33, 14:48, 14:51, 14:59, 14:64, 14:95, 14:106, 14:108- 14:109	*03:11:01, 03:13:01-03:13:02, 03:38, 03:58, 13:39, 13:77-13:79, DRB3*01:08
40^{8,20}	215 bp, 250 bp	430 bp	*14:71, 14:107	
41^{5,21}	115 bp, 165 bp, 245 bp	430 bp	*14:75, 14:90-14:91, 14:94, 14:97, 14:103	*03:04:01, 03:26, 03:33, 03:44, 11:29, 11:44, 11:47, 11:49:01- 11:50, 11:63, 11:85, 13:60, 13:84, 13:106
42	225 bp	515 bp	*14:76, 14:79, 14:93	
43^{5,22}	95 bp, 200 bp	430 bp	*14:82, 14:95, 14:101	
44	215 bp	515 bp	*14:70, 14:83	*15:03:01:01-15:03:01:02, 15:23
45⁵	125 bp	515 bp	*14:59, 14:86, 14:96	

46 ^{5,8,23}	105 bp, 165 bp, 210 bp, 225 bp	515 bp	*14:87-14:89, 14:92N	
47 ^{5,7}	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
48 ^{5,24}	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, 13:61:01

¹ 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 inherent 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.

² 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.

³ 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.

⁴ 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, 44, 47 and 48. In addition, the DRB3*01:08 allele will be amplified by primer mix 39, 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.

⁵ Short specific PCR fragments are less intense and not as sharp as longer specific bands.

⁶ Primer mix 23 has a tendency of giving rise to nonspecific amplifications.

⁷ Primer mixes 13, 16, 18 and 47 may yield less specific PCR product than the other DRB1*14 primer mixes.

⁸ Primer mixes 2, 16, 40 and 46 may have tendencies of giving rise to primer oligomer formation.

⁹ 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, 13:108 and 15:122 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, 14:100 and 14:103 and the DRB1*13:72 alleles.

¹⁰ 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, 14:74 and 14:105 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 the 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, 12:01:01-12:03:02, 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, 08:41 and 12:04 alleles.

¹¹Primer mix 14: Specific PCR fragment of 60 bp in the DRB1*14:22, 14:25, 14:53, 14:73 and 14:105 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.

¹²Primer mix 20: Specific PCR fragment of 110 bp in the DRB1*14:25, 14:53, 14:58 and 14:69 and the 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, 14:102 and 14:107 and the DRB1*08:20, 11:23, 11:25, 11:45, 11:55, 11:64, 13:13, 13:47 and 13:55 alleles. Specific PCR fragment of 215 bp in the DRB1*14:15 and the DRB1*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*08:01:01-08:04:06, 08:06-08:07, 08:10-08:17, 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, 08:42 and 11:67 alleles. Specific PCR fragments of 110, 160 and 215 bp in the DRB1*08:08 alleles. Not all specific PCR fragments may be obtained in alleles being amplified by more than one primer pair.

¹³Primer 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, 13:12:01-13:13, 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 and 13:108 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.

¹⁴Primer mix 24: Specific PCR fragment of 75 bp in the DRB1*14:26 and the DRB1*13:92 alleles. Specific PCR fragment of 125 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 125 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 165 bp in the DRB1*14:90 allele.

¹⁵Primer 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.

¹⁶Primer 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 13:61:01 and in the DRB3*01:14 alleles.

¹⁷Primer mix 29: Specific PCR fragment of 125 bp in the DRB1*14:60 and 14:97 and the DRB1*03:26, 11:44, 11:49-11:50 and 11:85 and 13:106 alleles. Specific PCR fragment of 175 bp in the DRB1*14:48 and the DRB1*13:31, 13:46, 13:54, 13:77 and 13:100 alleles. Specific PCR fragment of 220 bp in the DRB1*14:104 and the DRB1*03:14-03:15, 03:26, alleles. Specific PCR fragment of 125 and 220 bp in the DRB1*03:33 and 03:44 alleles. Specific PCR fragment of 175 and 220 bp in the DRB1*03:38 and in the DRB3*01:14 alleles.

¹⁸Primer 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, 14:21 and 14:109, and the DRB1*03:12, 13:10 and 13:85 alleles.

¹⁹Primer mix 39: Specific PCR fragment of 120 bp in the DRB1*14:48, 14:108 and 14:109 and the DRB1*03:13:01-03:13:02, 03:38, 13:39, 03:58 and 13:77-13:79 and in the DRB3*01:08 alleles. Specific PCR fragment of 155 bp in the DRB1*14:18, 14:33, 14:51, 14:59, 14:95 and 14:106 and the DRB1*03:11:01 alleles. Specific PCR fragment of 120 and 155 bp in the DRB1*14:64 allele.

²⁰Primer mix 40: Specific PCR fragment of 215 bp in the DRB1*14:107 allele. Specific PCR fragment of 250 bp in the DRB1*14:71 allele.

²¹Primer mix 41: Specific PCR fragment of 115 bp in the DRB1*14:91, 14:94 and 14:97 and the DRB1*03:04:01, 03:26, 03:33, 03:44, 11:29, 11:44, 11:47, 11:49:01-11:50, 11:63, 11:85, 13:60, 13:84 and 13:106 alleles. Specific PCR fragment of 165 bp in the DRB1*14:90 allele. Specific PCR fragment of 245 bp in the DRB1*14:75 and 14:103 alleles.

²²Primer mix 43: Specific PCR fragment of 95 bp in the DRB1*14:101 allele. Specific PCR fragment of 200 bp in the DRB1*14:82 and 14:95 alleles.

²³Primer 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.

²⁴Primer 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 13:61:01 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*14:109 alleles

	Well ⁵																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		170			130						160	215			125
Length of int. pos. control ¹	515	430	430	430	430	515	430	430	430	430	430	515	430	515	430	430	430	430	430	430	515	430	430	430
5'-primer(s) ²	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)	5'-AgA ³ 37(196)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)	5'-ggg ³ 13(125)	5'-CAA ³ 16(135)	5'-ACC ³ 11(118)	5'-gTT ³ 16(133)	5'-gTC ³ 13(125)	5'-Cag ³ 34(189)	5'-AgA ³ 37(196)	5'-AgA ³ 37(196)	5'-gAT ³ 57(258)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)	5'-gTT ³ 37(197)	5'-gTT ³ 16(133)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)
							5'-gTT ³ 16(133)	5'-CTA ³ 57(256)	5'-ACA ³ 13(125)	5'-AgC ³ 60(265)	5'-gTC ³ 13(125)	5'-Cag ³ 34(189)	5'-AgA ³ 37(196)	5'-gTT ³ 37(197)	5'-gAT ³ 57(258)					5'-CAA ³ 34(189)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)	5'-gTC ³ 13(125)
														5'-AgC ³ 60(265)										
3'-primer(s) ³	5'-TCC ³ 70(296)	5'-CAG ³ 57(257)	5'-CTg ³ 70(295)	5'-CTC ³ 28(171)	5'-CAC ³ 86(344)	5'-CCA ³ 86(344)	5'-CAG ³ 74(307)	5'-CAG ³ 57(257)	5'-CCA ³ 86(344)	5'-CAG ³ 57(257)	5'-CCT ³ 58(260)	5'-CCT ³ 74(308)	5'-gtg ³ 60(265)	5'-gAA ³ 67(286)	5'-CAG ³ 85(341)	5'-CAA ³ 78(321)	5'-CTT ³ 71(298)	5'-CTg ³ 28(171)	5'-CTC ³ 71(298)	5'-Cag ³ 57(257)	5'-gCT ³ 57(256)	5'-ggT ³ 47(227)	5'-gga ³ 47(227)	5'-ACT ³ 25(161)
			5'-CTT ³ 71(298)								5'-CgC ³ 74(307)	5'-CCT ³ 74(308)						5'-ggC ³ 77(316)	5'-CTg ³ 28(171)	5'-CAG ³ 74(307)	5'-Cag ³ 74(307)	5'-CgC ³ 71(298)		5'-CCC ³ 55(250)
											5'-CCT ³ 74(308)													5'-CCg ³ 45(220)
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.: **77M**

Lot-specific information

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		170			130						215	160	110	215	125
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 ⁴																								
*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	
*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		
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.: **77M**

Lot-specific information

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120	250	220	160	125	190	80	100	175	205	250	130	175	215	120	215	115	225	95	215	125	105	60	65	Length of spec.	PCR product(s)	
250	210		230	175			145							155	250	245	165	200			220	165	105	190	Well No.	DRB1 allele ⁴
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48			
	26							33																	*14:01:01-14:01:03	
																									*14:02	
																									*14:03:01-14:03:02	
									34	35															*14:04	
																									*14:05:01-14:05:02	
																									*14:05:03	
					30																				*14:06:01-14:06:02	
25								33																	*14:07:01-14:07:02	
								33																	*14:08	
																									*14:09	
																									*14:10	
									34	35															*14:11	
					30																				*14:12:01-14:12:02	
							32																		*14:13	
																									*14:14	
										35															*14:15	
								33																	*14:16	
					30																				*14:17	
					30									39											*14:18	
							32																		*14:19	
					30																				*14:20	
							32																		*14:21	
25								33																	*14:22	
																									*14:23:01-14:23:03	
																									*14:24	
25								33																	*14:25	
								33																	*14:26	
																									*14:27	
									34	35															*14:28	
					30																				*14:29	
																									*14:30	
									34	35															*14:31	
								33																	*14:32:01-14:32:02	
					30									39											*14:33	
								33																	*14:34	
						31		33																	*14:35	
																									*14:36	
													38												*14:37	
				28				33																	*14:38	
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.: **77M**

Lot-specific information

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		170			130						160	215	215		125
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 ⁴																								
*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					
*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		24	
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.: **77M**

Lot-specific information

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120	250	220	160	125	190	80	100	175	205	250	130	175	215	120	215	115	225	95	215	125	105	60	65	Length of spec.	
250	210		230	175			145							155	250	165		200			220	165		190	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.	
																							DRB1 allele ⁴		
								33																*14:39	
																									*14:40
																									*14:41
																									*14:42
																									*14:43
25																									*14:44:01
25																									*14:44:02
																							48		*14:45
		27																							*14:46
			28																						*14:47
				29										39											*14:48
25								33																	*14:49
			28						34	35															*14:50
														39											*14:51
					30					35															*14:52
25						31		33																	*14:53
								33																	*14:54
								33																	*14:55
25																									*14:56
																									*14:57
								33																	*14:58
					30									39							45				*14:59
					29			33																	*14:60
																									*14:61
								33																	*14:62
							32				36											47			*14:63
					30									39											*14:64
																									*14:65
											36											47			*14:67
25									34																*14:68
25								33																	*14:69
								33											44						*14:70
									34	35					40										*14:71
						31																			*14:72
										35															*14:73
								33																	*14:74
								33								41									*14:75
										35							42								*14:76
																									*14:77
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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Lot-specific information

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		215 170			130						215 160	215			125
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 ⁴																								
*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		
*14:101	1	2				6						12						18				22		
*14:102					5		7													20		22		
*14:103	1					6			9			12						18				22		
*14:104		2				6							13					18				22		
*14:105		2				6					11		13	14				18				22		
*14:106			3	4		6						12										22		
*14:107								8					13							20				
*14:108			3	4		6																22		
*14:109			3	4	5													17				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

Lot No.: **77M**

Lot-specific information

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120	250	220	160	125	190	80	100	175	205	250	130	175	215	120	215	115	225	95	215	125	105	60	65	Length of spec.
210	230	175	145	175	145	145	145	145	145	145	145	145	145	155	250	165	200	165	220	165	190	190	190	PCR product(s)
250	250	250	250	220	220	220	220	220	220	220	220	220	220	220	220	245	245	245	245	245	245	245	245	Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	DRB1 allele ⁴
					30		32				36												47	*14:78
										35							42							*14:79
					30																			*14:80
					30																			*14:81
								33										43						*14:82
					30														44					*14:83
							32																	*14:84
									33												45			*14:85
									33													46		*14:86
									33													46		*14:87
			28						33													46		*14:88
																						46		*14:89
								33								41								*14:90
																41								*14:91
								33														46		*14:92N
25									34								42							*14:93
																41								*14:94
					30										39			43						*14:95
																			45					*14:96
				29				33								41								*14:97
			28																				48	*14:98
								33																*14:99
														38										*14:100
																		43						*14:101
																								*14:102
																41								*14:103
				29				33																*14:104
								33																*14:105
					30										39									*14:106
										35					40									*14:107
					30										39									*14:108
							32								39									*14:109
																								*01:02:01-01:02:05, 01:23, 01:26, 01:34
25																								*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.

Lot No.: **77M**

Lot-specific information

www.olerup-ssp.com

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		215 170			130						215 160	215			125
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 allele⁴																								
*03:01:01:01- 03:01:01:02, 03:01:03- 03:01:11, 03:07, 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, 03:59, 13:01:07, 13:20, 13:71, 13:111						6												18					23	
*03:01:02						6												18					23	
*03:02:01				4	5																	22		
*03:02:02				4	5																	22		
*03:03				4	6																	22		
*03:04:01					6													18					23	
*03:05:01-03:05:02, 03:09, 03:40, 13:14:01- 13:14:03, 13:23:01- 13:23:02, 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	
*03:13:01, 03:58, 13:78					6													18					23	
*03:13:02					6													18					23	
*03:14, 13:46, 13:100					5													18					23	
*03:15					6													18					23	
*03:16					6													18						
*03:17					5						12							18			22			
*03:18					6													18					23 24	
*03:20					6									15				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.: **77M**

Lot-specific information

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120	250	220	160	125	190	80	100	175	205	250	130	175	215	120	215	115	225	95	215	125	105	60	65	Length of spec.
210	230	175	145	175	155	250	245	165	200	220	190	250	165	250	165	200	220	165	190	225	190	225	190	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.
																								DRB1 allele ⁴
																								*03:01:01:01- 03:01:01:02, 03:01:03- 03:01:11, 03:07, 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, 03:59, 13:01:07, 13:20, 13:71, 13:111
			28		30																			*03:01:02
			28																					*03:02:01
																								*03:02:02
					30																			*03:03
																41								*03:04:01
																								*03:05:01-03:05:02, 03:09, 03:40, 13:14:01- 13:14:03, 13:23:01- 13:23:02, 13:25, 13:29, 13:56, 13:62-13:63, 13:74, 13:82, 13:97
			28																					*03:05:03
					30																			*03:06
					30							37												*03:08, 11:40, 11:59
					30	31		33																*03:10
					30									39										*03:11:01
			28		30																			*03:11:02, 03:24
					30		32																	*03:12
					30									39										*03:13:01, 03:58, 13:78
			28		30									39										*03:13:02
					29																			*03:14, 13:46, 13:100
					29	30																		*03:15
					30																			*03:16
			28																					*03:17
					30																			*03:18
					30																			*03:20
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.: **77M**

Lot-specific information

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		170			130						160	215		145	125
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 ⁴																								
*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		
*03:27				4	5							12										22		
*03:29				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, 15:32																								
*03:43						6												18					23	24
*03:44, 13:106						6												18					23	
*03:53				4	5																			
*03:57																		18					23	
*03:60						6																22		
*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, 08:42																				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- 08:04:06, 08:28																				20				
*08:05, 08:18, 08:24- 08:25, 08:40-08:41, 12:16											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

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Lot No.: 77M								Lot-specific information								www.olerup-ssp.com								Length of spec.
120	250	220	160	125	190	80	100	175	205	250	130	175	215	120	215	115	225	95	215	125	105	60	65	PCR product(s)
250	210		230	175			145						155	250	215	245	165	200			220	165	105	
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.
																								DRB1 allele ⁴ *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
				29	30											41								*03:26
			28																					*03:27
																								*03:29
				29	30											41								*03:31, 13:70
25			28																				48	*03:33
				29										39										*03:35
																								*03:38
																								*03:41, 13:07:01- 13:07:02
				30																				*03:42, 15:32
																								*03:43
				29												41								*03:44, 13:106
																								*03:53
																								*03:57
				30																				*03:60
																								*04:10-04:11, 04:67, 04:91, 15:12
																					47			*04:12
																					47			*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, 08:42
																					47			*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
								35																*08:04:01, 08:04:04- 08:04:06, 08:28
																								*08:05, 08:18, 08:24- 08:25, 08:40-08:41, 12:16
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.: **77M**

Lot-specific information

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		170				130					160	215		145	125
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 ⁴																								
*08:06, 08:22									9											20				
*08:08								8					14							20				
*08:09, 08:21																			19	20				
*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, 11:74:01-11:75, 11:80- 11:81, 11:90-11:91, 11:94-11:95, 11:97, 11:99-11:101						5													18			23		
*11:01:05, 11:01:10						5										16			18				23	
*11:01:07						5													18					
*11:02:01-11:04:02, 11:04:04-11:04:07, 11:06:01, 11:07, 11:18, 11:21, 11:34-11:36, 11:38, 11:42-11:43, 11:46:01-11:46:02, 11:57, 11:60, 11:65:01- 11:65:02, 11:70, 11:77- 11:78, 11:98, 11:102							6													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.: **77M**

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120	250	220	160	125	190	80	100	175	205	250	130	175	215	120	215	115	225	95	215	125	105	60	65	Length of spec.
210			230	175			145							155	250	165		200			220	165	190	PCR product(s)
250				220												245								
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.
																								DRB1 allele ⁴
										35														*08:06, 08:22
25																								*08:08
																								*08:09, 08:21
										35												47		*08:10, 08:12
																								*08:11
25																						47		*08:15
																								*08:20
										35														*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, 11:74:01-11:75, 11:80- 11:81, 11:90-11:91, 11:94-11:95, 11:97, 11:99-11:101
												37												*11:01:05, 11:01:10
												37												*11:01:07
												37												*11:02:01-11:04:02, 11:04:04-11:04:07, 11:06:01, 11:07, 11:18, 11:21, 11:34-11:36, 11:38, 11:42-11:43, 11:46:01-11:46:02, 11:57, 11:60, 11:65:01- 11:65:02, 11:70, 11:77- 11:78, 11:98, 11:102
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.: **77M**

Lot-specific information

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		215	170			130					215	160	215		125
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 ⁴																								
*11:04:03, 11:06:02					6											16		18						23
*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
*11:49:01					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								
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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120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	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	49	50	51	52	53	Well No.
																													DRB1 allele ⁴
												37																	*11:04:03, 11:06:02
												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									37																48	*11:27:01
												37			41														*11:29
						31						37																	*11:31, 11:96
												37																	*11:37
												37																	*11:41, 11:48, 11:56
				29								37			41														*11:44, 11:85
												37											47					*11:45	
												37			41														*11:47, 11:63
				29								37			41														*11:49:01
				29								37			41														*11:50
												37																	*11:52
												37																	*11:53
												37																	*11:54:01
												37																	*11:54:02
					30							37																	*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						37																	*11:83
			28									37															48		*11:84
												37																	*11:86
												37																	*11:88
												37																	*11:89
												37																	*11:92
											35																		*12:04, 12:09
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	Well No.

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		215 170			130						215 160	215			125
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 ⁴																								
*12:05, 12:14-12:15											11				15									
*12:22																								
*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, 13:87, 13:91, 13:98, 13:102, 13:105, 13:110, 13:112-13:113N						6												18					23	
*13:01:03						6										16		18						23
*13:02:01-13:02:03, 13:41, 13:73, 13:96:01, 13:99						5												18						23
*13:02:04, 13:16, 13:109																		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
*13:12:01-13:12:02, 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
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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120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000
Length of spec.																																								PCR product(s)																																								Well No.																																																																																																
DRB1 allele ⁴																																																																																																																																																																																
35												36												36												36												*12:05, 12:14-12:15																																																																																																																																
28								30												36												36												36												*12:22																																																																																																																								
30												36												36												36												*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, 13:87, 13:91, 13:98, 13:102, 13:105, 13:110, 13:112-13:113N																																																																																																																																
30												36												36												36												*13:01:03																																																																																																																																
36												36												36												36												*13:02:01-13:02:03, 13:41, 13:73, 13:96:01, 13:99																																																																																																																																
36												36												36												36												*13:02:04, 13:16, 13:109																																																																																																																																
36												36												36												36												*13:03:01-13:03:06, 13:33:01, 13:88, 13:90, 13:95																																																																																																																																
36												36												36												36												*13:04, 13:75																																																																																																																																
36												36												36												36												*13:05:01-13:05:02, 13:50:01-13:50:02																																																																																																																																
36												36												36												36												*13:08																																																																																																																																
30												36												36												36												*13:09																																																																																																																																
30												32												36												36												*13:10																																																																																																																																
36												36												36												36												*13:12:01-13:12:02, 13:38, 13:49																																																																																																																																
36												36												36												36												*13:13																																																																																																																																
30												36												36												36												*13:15																																																																																																																																
30												36												36												36												*13:18																																																																																																																																
36												36												36												36												*13:19																																																																																																																																
36												36												36												36												*13:21:01-13:21:02, 13:30																																																																																																																																
36												36												36												36												*13:26																																																																																																																																
29												36												36												36												*13:31																																																																																																																																
28												30												32												36												*13:32																																																																																																																																
36												36												36												36												*13:33:02-13:33:03																																																																																																																																
36												36												36												36												*13:34																																																																																																																																
30												36												36												36												*13:35, 13:80																																																																																																																																
36												36												36												36												*13:36																																																																																																																																
Well No.																																																																																																																																																																																

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250		170			130						160	215			125
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 ⁴																								
*13:37					5												17	18				22		
*13:39					5													18					23	
*13:40						6												18				22		
*13:42						6							14					18					23	
*13:43		2				6					11		13					18					23	
*13:45		2			5						11							18	20				23	
*13:47					5		7											18	20			22		
*13:48, 13:58, 13:108						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		
*13:61:01						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	
*13:79						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		
*13:86					5																		23	
*13:92						6												18					23	24
*13:93						6			9									18				21	23	
*13:101						5												17				21	22	
*13:104				4	5																		23	
*13:107					5													18	19				23	
*15:03:01:01-15:03:01:02, 15:23																								
*16:08														14										
DRB3*01:08																								
DRB3*01:14					5													18				22	24	
DRB3*02:16																								
DRB1 allele ⁴																								
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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120				125				130				135				140				Length of spec.											
210				175				145				115				PCR product(s)															
250				220				205				185																			
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.							
																												DRB1 allele ⁴			
																												*13:37			
											36			39														*13:39			
											36																	*13:40			
																												*13:42			
																												*13:43			
25																												*13:45			
																												*13:47			
																												*13:48, 13:58, 13:108			
																												*13:53			
																												*13:54			
																												*13:55			
																												*13:57			
																												*13:60			
																												*13:61:01			
																												*13:64			
																												*13:65			
																												*13:66:01-13:66:02			
																												*13:67, 13:103			
																												*13:72			
																												*13:76			
																												*13:77			
																												*13:79			
																												*13:81, 13:89, 13:94			
																												*13:83			
																												*13:84			
																												*13:85			
																												*13:86			
																												*13:92			
																												*13:93			
																												*13:101			
																												*13:104			
																												*13:107			
																												*15:03:01:01-15:03:01:02, 15:23			
																												*16:08			
																												<i>DRB3*01:08</i>			
																												<i>DRB3*01:14</i>			
																												<i>DRB3*02:16</i>			
																												DRB1 allele ⁴			
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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¹The 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.

²The codon, and in parenthesis the nucleotide, in the 2nd and 3rd 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The codon, and in parenthesis the nucleotide, in the 2nd and 3rd 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴The DRB1*1466 allele has been renamed to DRB1*14:32:02

⁵Primer 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, 13:108 and 15:122 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, 14:100 and 14:103 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, 14:74 and 14:105 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 the 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, 12:01:01-12:03:02, 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, 08:41 and 12:04 alleles.

Primer mix 14: Specific PCR fragment of 60 bp in the DRB1*14:22, 14:25, 14:53, 14:73 and 14:105 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 the 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, 14:102 and 14:107 and the DRB1*08:20, 11:23, 11:25, 11:45, 11:55, 11:64, 13:13, 13:47 and 13:55 alleles. Specific PCR fragment of 215 bp in the DRB1*14:15 and the DRB1*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*08:01:01-08:04:06, 08:06-08:07, 08:10-08:17, 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, 08:42 and 11:67 alleles. Specific PCR fragments of 110, 160 and 215 bp in the DRB1*08:08 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, 13:12:01-13:13, 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 and 13:108 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 125 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 125 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 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,

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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 13:61:01 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, 11:44, 11:49-11:50 and 11:85 and 13:106 alleles. Specific PCR fragment of 175 bp in the DRB1*14:48 and the DRB1*13:31, 13:46, 13:54, 13:77 and 13:100 alleles. Specific PCR fragment of 220 bp in the DRB1*14:104 and the DRB1*03:14-03:15, 03:26, alleles. Specific PCR fragment of 125 and 220 bp in the DRB1*03:33 and 03:44 alleles. Specific PCR fragment of 175 and 220 bp in the DRB1*03:38 and in 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, 14:21 and 14:109, and the DRB1*03:12, 13:10 and 13:85 alleles.

Primer mix 39: Specific PCR fragment of 120 bp in the DRB1*14:48, 14:108 and 14:109 and the DRB1*03:13:01-03:13:02, 03:38, 13:39, 03:58 and 13:77-13:79 and in the DRB3*01:08 alleles. Specific PCR fragment of 155 bp in the DRB1*14:18, 14:33, 14:51, 14:59, 14:95 and 14:106 and the DRB1*03:11:01 alleles. Specific PCR fragment of 120 and 155 bp in the DRB1*14:64 allele.

Primer mix 40: Specific PCR fragment of 215 bp in the DRB1*14:107 allele. Specific PCR fragment of 250 bp in the DRB1*14:71 allele.

Primer mix 41: Specific PCR fragment of 115 bp in the DRB1*14:91, 14:94 and 14:97 and the DRB1*03:04:01, 03:26, 03:33, 03:44, 11:29, 11:44, 11:47, 11:49:01-11:50, 11:63, 11:85, 13:60, 13:84 and 13:106 alleles. Specific PCR fragment of 165 bp in the DRB1*14:90 allele. Specific PCR fragment of 245 bp in the DRB1*14:75 and 14:103 alleles.

Primer mix 43: Specific PCR fragment of 95 bp in the DRB1*14:101 allele. Specific PCR fragment of 200 bp in the DRB1*14:82 and 14:95 alleles.

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 13:61:01 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																					
					Well																
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
					Prod. No.:	201191401	201191402	201191403	201191404	201191405	201191406	201191407	201191408	201191409	201191410	201191411	201191412	201191413	201191414	201191415	201191416
	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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	
				Prod. No.:	201191417	201191418	201191419	201191420	201191421	201191422	201191423	201191424	201191425	201191426	201191427	201191428	201191429	201191430	201191431	201191432
IHCW 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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
					201191433	201191434	201191435	201191436	201191437	201191438	201191439	201191440	201191441	201191442	201191443	201191444	201191445	201191446	201191447	201191448
	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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CERTIFICATE OF ANALYSIS

Olerup SSP® DRB1*14 SSP

Product number: 101.117-12u/03u – without *Taq* pol.
Lot number: 77M
Expiry date: 2014-May-01
Number of tests: 12 tests – Product No. 101.117-12u
 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	2011-914-01	17	2011-914-17	33	2011-914-33
2	2011-914-02	18	2011-914-18	34	2011-914-34
3	2011-914-03	19	2011-914-19	35	2011-914-35
4	2011-914-04	20	2011-914-20	36	2011-914-36
5	2011-914-05	21	2011-914-21	37	2011-914-37
6	2011-914-06	22	2011-914-22	38	2011-914-38
7	2011-914-07	23	2011-914-23	39	2011-914-39
8	2011-914-08	24	2011-914-24	40	2011-914-40
9	2011-914-09	25	2011-914-25	41	2011-914-41
10	2011-914-10	26	2011-914-26	42	2011-914-42
11	2011-914-11	27	2011-914-27	43	2011-914-43
12	2011-914-12	28	2011-914-28	44	2011-914-44
13	2011-914-13	29	2011-914-29	45	2011-914-45
14	2011-914-14	30	2011-914-30	46	2011-914-46
15	2011-914-15	31	2011-914-31	47	2011-914-47
16	2011-914-16	32	2011-914-32	48	2011-914-48

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 40, 42, 43, 45, 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 or two additional 5'-primer, respectively, one or several additional 3'-primers.

In primer solutions 40 and 46 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 10, 14, 43 and 44 one of the 5'-primers was not possible to test, and in primer solutions 17, 22, 24, 25, 28, 29, 37, 39, 41 and 48 one or more of the 3'-primers were not possible to test.

Additional primers in primer solutions 11, 12, 21, 25, 32, 36 and 41 were tested by separately adding one 5'-primer and/or one 3'-primer.

Lot No.: **77M**

Lot-specific information

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

Date of approval: 2011-December-15

Approved by:

Production Quality Control

Declaration of Conformity

Product name: *Olerup* SSP® DRB1*14

Product number: 101.117-12u/03u

Lot number: 77M

Intended use: DRB1*14 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
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SE-112 51 Stockholm, 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, Franzengatan 5, SE-112 51 Stockholm, Sweden.

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

Stockholm, Sweden
2012-January-09

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

Lot No.: **77M**

Lot-specific information

www.olerup-ssp.com**ADDRESSES:****Manufacturer:****Olerup SSP AB**, Franzengatan 5, SE-112 51 Stockholm, Sweden.**Tel:** +46-8-717 88 27**Fax:** +46-8-717 88 18**E-mail:** info-ssp@olerup.com**Web page:** <http://www.olerup-ssp.com>**Distributed by:****Olerup GmbH**, Löwengasse 47 / 6, AT-1030 Vienna, Austria.**Tel:** +43-1-710 15 00**Fax:** +43-1-710 15 00 10**E-mail:** support-at@olerup.com**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**Web page:** <http://www.olerup.com>For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH**.