

Olerup SSP® HLA-B*40

Product number:	101.523-24u/03u – without <i>Taq</i> pol.
Lot number:	07M
Expiry date:	2013-September-01
Number of tests:	24 tests – Product No. 101.523-24u 3 tests – Product No. 101.523-03u
Number of wells per test:	72
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. 07M.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*® HLA-B*40 Lot

The HLA-B*40 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*® HLA-B*40 lot was made (Lot No. 86G).

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

Well	5'-primer	3'-primer	rationale
2	-	-	Exchanged positive control primer pair.
30	Added	-	Primer added for the B*40:02:10 allele
65	Added	-	Primer added for the B*40:02:10 allele

Change in revision R01 compared to R00:

1. Primer mix 70 does not amplify the following alleles: B*40:03, 40:20, 40:52, 40:59 and 40:60 and the B*13:04, 13:10, 13:26, 15:46, 15:53, 15:106, 18:48, 35:46-35:47, 35:63, 44:17, 44:43:01, 45:09 and 49:04-49:05 and the C*07:69 alleles. This has been corrected in the Specificity and Interpretation Tables.

PRODUCT DESCRIPTION

HLA-B*40 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*40:01 to B*40:99 alleles.

PLATE LAYOUT

Each test consists of 72 PCR reactions in a 96 well cut PCR plate. Wells 73 to 96 are empty.

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
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
empty	empty	empty	empty	empty	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty

The 96 well PCR plate is marked with 'HLA-B*40' in silver/gray ink.

Well No. 1 is marked with the Lot No. '07M'.

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.

INTERPRETATION

The interpretation of HLA-B*40 SSP subtypings will be influenced by many other HLA-B alleles when present on the other haplotype. In addition, the C*02:06 and 02:36 alleles will be amplified by primer mix 5, the C*02:23 allele will be amplified by primer mixes 5, 20, 26 and 66, the HLA-C*03:05, 03:25 and 03:27 alleles will be amplified by primer mixes 4, 8 and 13, the C*03:34 allele will be amplified by primer mix 33, the C*07:38 allele will be amplified by primer mixes 16, 31, 34 and 66, the C*07:46 allele will be amplified by primer mix 39, the C*07:81 allele will be amplified by primer mix 11, the C*08:08 allele by primer mixes 6 and 29, the C*12:25 allele will be amplified by primer mix 23, the C*15:24 allele will be amplified by primer mix 65, and the C*17 alleles faintly by primer mix 7.

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UNIQUELY IDENTIFIED ALLELES

All the HLA-B*40 alleles, i.e. **B*40:01 to B*40:99**, recognized by the HLA Nomenclature Committee in April 2010¹ will give rise to unique amplification patterns by the primers in the HLA-B*40 subtyping kit.

The HLA-B*40 subtyping kit cannot distinguish the B*40:01:01-40:01:05 and 40:01:07-40:01:10 alleles, the B*40:02:01-40:02:03 and 40:02:05-40:02:10 alleles, the B*40:06:01:01-40:06:02 alleles or the B*40:14:02-40:14:03 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2010-April-01, release 3.0.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 201 alleles generate 101 amplification patterns that can be combined in 5151 homozygous and heterozygous combinations. 837 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.

+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:24, *40:61 = *40:24, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:18, *40:60 = *40:24, *40:60
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:32, *40:74 = *40:74, *40:98
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:61, *40:98 = *40:73, *40:98
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:18, *40:61 = *40:18, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:09, *40:52 = *40:18, *40:52
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:09, *40:33 = *40:18, *40:33
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:27:01, *40:61 = *40:27:01, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:05, *40:61 = *40:05, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:08, *40:47 = *40:13, *40:25
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:01:01, *40:08 = *40:08, *40:25
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:01:01, *40:13 = *40:07, *40:19
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:09, *40:61 = *40:09, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:19, *40:43 = *40:47, *40:50
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:19, *40:54 = *40:47, *40:78
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:19, *40:55 = *40:47, *40:56
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:19, *40:61 = *40:19, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:19, *40:69 = *40:47, *40:97
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:01:01, *40:19 = *40:02:01, *40:47
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:19, *40:49 = *40:40, *40:47
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:29, *40:61 = *40:29, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:40, *40:43 = *40:49, *40:50
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:43, *40:78 = *40:50, *40:54
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:43, *40:56 = *40:50, *40:55
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:50, *40:61 = *40:50, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:37, *40:43 = *40:50, *40:76
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:43, *40:97 = *40:50, *40:69
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:01:01, *40:50 = *40:02:01, *40:43 = *40:43, *40:50
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:35, *40:61 = *40:35, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:40, *40:54 = *40:49, *40:78
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:40, *40:55 = *40:49, *40:56
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:40, *40:69 = *40:49, *40:97
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:01:01, *40:40 = *40:02:01, *40:49
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:54, *40:56 = *40:55, *40:78
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:61, *40:78 = *40:73, *40:78
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:37, *40:54 = *40:76, *40:78
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:54, *40:97 = *40:69, *40:78
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:01:01, *40:78 = *40:02:01, *40:54 = *40:54, *40:78
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:56, *40:61 = *40:56, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:37, *40:55 = *40:56, *40:76
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:55, *40:97 = *40:56, *40:69
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:01:01, *40:56 = *40:02:01, *40:55 = *40:55, *40:56
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:57, *40:61 = *40:57, *40:73
+++++---	-----+	++-++-+	---+--+	-----	-----+	-----	-----	-----	-----	*40:37, *40:61 = *40:37, *40:73

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+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:02:04, *40:61 = *40:02:04, *40:73
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:61, *40:85 = *40:73, *40:85
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:61, *40:90 = *40:73, *40:90
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:61, *40:94 = *40:73, *40:94
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:02:01, *40:61 = *40:02:01, *40:73
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:61, *40:89 = *40:73, *40:89
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:61, *40:91 = *40:73, *40:91
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:37, *40:69 = *40:76, *40:97
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:01:01, *40:37 = *40:02:01, *40:76 =
									*40:37, *40:76
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:01:01, *40:97 = *40:02:01, *40:69 =
									*40:69, *40:97
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:02:01, *40:88 = *40:82, *40:88
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:39, *40:61 = *40:39, *40:73
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:23, *40:91 = *40:23, *40:94
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:03, *40:61 = *40:03, *40:73
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:44, *40:61 = *40:44, *40:73
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:20, *40:38 = *40:52, *40:74
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:20, *40:61 = *40:20, *40:73
+++++-----	-----	+-----+	---+---+	-----	-----+	-----	---+-----	+-----	*40:01:01, *40:20 = *40:20, *40:74 = *40:33,
									*40:74
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:61, *40:71 = *40:71, *40:73
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:61, *40:96 = *40:73, *40:96
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:01:01, *40:96 = *40:06:01:01, *40:47
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:06:01:01, *40:60 = *40:60, *40:70
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:61, *40:70 = *40:70, *40:73
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:06:01:01, *40:74 = *40:53, *40:74
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:61, *40:86 = *40:73, *40:86
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:06:01:01, *40:61 = *40:06:01:01, *40:73
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:01:01, *40:68 = *40:25, *40:68
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:26, *40:61 = *40:26, *40:73
+++-----+	-----	+-----	---+---+	-----	-----+	-----	-----	+-----	*40:01:01, *40:26 = *40:01:06, *40:11:01 =
									*40:01:06, *40:26 = *40:26, *40:74
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:04, *40:60 = *40:60, *40:64
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:04, *40:61 = *40:04, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:28, *40:61 = *40:28, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:61, *40:99 = *40:73, *40:99
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:61, *40:64 = *40:64, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:11:01, *40:61 = *40:11:01, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:61, *40:74 = *40:73, *40:74
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:63, *40:74 = *40:74, *40:92
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:01:01, *40:11:01 = *40:11:01, *40:74
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:01:01, *40:74 = *40:74, *40:74
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:61, *40:95 = *40:73, *40:95
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:32, *40:61 = *40:32, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:31, *40:61 = *40:31, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:31, *40:63 = *40:31, *40:92
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:15, *40:61 = *40:15, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:16, *40:61 = *40:16, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:61, *40:80 = *40:73, *40:80
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:45, *40:61 = *40:45, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:63, *40:80 = *40:80, *40:92
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:45, *40:63 = *40:45, *40:92
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:59, *40:61 = *40:59, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:36, *40:59 = *40:48, *40:59
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:01:01, *40:59 = *40:38, *40:59
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:42, *40:59 = *40:59, *40:60
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:59, *40:63 = *40:59, *40:92
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:33, *40:59 = *40:52, *40:59
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:33, *40:60 = *40:52, *40:60
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:52, *40:61 = *40:52, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:36, *40:52 = *40:48, *40:52
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:01:01, *40:52 = *40:33, *40:38 = *40:38,
									*40:52
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:33, *40:61 = *40:33, *40:73
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:52, *40:63 = *40:52, *40:92
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:33, *40:52 = *40:52, *40:52
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:33, *40:63 = *40:33, *40:92
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:12, *40:53 = *40:12, *40:93
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:61, *40:93 = *40:73, *40:93
+++-----+	-----	+-----	---+---+	+++-----+	-----	-----	-----	+-----	*40:01:01, *40:93 = *40:46, *40:53 = *40:46,

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++-----	-----	-----	---+---+	-----+	-----	-----	-----	-----	*40:12, *40:63 = *40:12, *40:92
++-----	-----	-----	---+---+	-----+	-----	-----	-----	-----	*40:01:01, *40:12 = *40:12, *40:46
++-----	-----	-----	---+---+	-----+	-----	-----	-----	-----	*40:46, *40:61 = *40:46, *40:73
++-----	-----	-----	---+---+	-----	-----	---+---	-----	-----	*40:46, *40:63 = *40:46, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:46 = *40:46, *40:46
++-----	-----	-----	---+---+	-----	-----	---+---	-----	-----	*40:61, *40:83 = *40:73, *40:83
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:53, *40:61 = *40:53, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:07, *40:63 = *40:07, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:61, *40:77 = *40:73, *40:77
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:63, *40:77 = *40:77, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:77 = *40:72:01, *40:87:01 =
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:77, *40:87:01
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:61, *40:87:01 = *40:73, *40:87:01
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:63, *40:87:01 = *40:87:01, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:87:01 = *40:87:01, *40:87:01
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:25, *40:61 = *40:25, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:25, *40:63 = *40:25, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:25 = *40:25, *40:25
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:10:01, *40:63 = *40:10:01, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:47, *40:61 = *40:47, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:47, *40:63 = *40:47, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:14:01, *40:23 = *40:23, *40:72:01
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:14:01, *40:61 = *40:14:01, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:14:01, *40:63 = *40:14:01, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:61, *40:72:01 = *40:72:01, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:63, *40:72:01 = *40:72:01, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:06, *40:61 = *40:01:06, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:06, *40:63 = *40:01:06, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:01:06 = *40:01:06, *40:01:06
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:60, *40:61 = *40:60, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:36, *40:60 = *40:48, *40:60
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:60 = *40:38, *40:60
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:60, *40:63 = *40:60, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:42, *40:60 = *40:60, *40:60
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:23, *40:61 = *40:23, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:14:02, *40:23 = *40:23, *40:72:02
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:14:02, *40:61 = *40:14:02, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:14:02, *40:63 = *40:14:02, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:21, *40:63 = *40:21, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:34, *40:61 = *40:34, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:34, *40:63 = *40:34, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:43, *40:61 = *40:43, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:43, *40:63 = *40:43, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:43 = *40:43, *40:43
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:22N, *40:61 = *40:22N, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:22N, *40:63 = *40:22N, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:22N = *40:22N, *40:22N
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:38, *40:61 = *40:38, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:36, *40:38 = *40:38, *40:48
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:38, *40:63 = *40:38, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:38 = *40:38, *40:38
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:48, *40:61 = *40:48, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:48, *40:63 = *40:48, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:48 = *40:36, *40:48 = *40:48,
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:48
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:30, *40:61 = *40:30, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:30, *40:63 = *40:30, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:42, *40:61 = *40:42, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:49, *40:63 = *40:49, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:51, *40:61 = *40:51, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:54, *40:61 = *40:54, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:54, *40:63 = *40:54, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:54 = *40:54, *40:54
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:55, *40:61 = *40:55, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:55, *40:63 = *40:55, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:01:01, *40:55 = *40:55, *40:55
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:36, *40:61 = *40:36, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:61, *40:76 = *40:73, *40:76
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:61, *40:62 = *40:62, *40:73
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:61, *40:63 = *40:61, *40:92 = *40:63,
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:73 = *40:73, *40:92
++-----	-----	-----	---+---+	-----	-----	-----	-----	-----	*40:61, *40:65 = *40:65, *40:73

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++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:61, *40:67 = *40:67, *40:73
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:61, *40:69 = *40:69, *40:73
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:61, *40:79 = *40:73, *40:79
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:61, *40:81 = *40:73, *40:81
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:61, *40:88 = *40:73, *40:88
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:61, *40:84 = *40:73, *40:84
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:61, *40:72:02 = *40:72:02, *40:73
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:61 = *40:01:01, *40:73 =
									*40:61, *40:73 = *40:73, *40:73
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:36, *40:63 = *40:36, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:36 = *40:36, *40:36
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:76 = *40:76, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:62, *40:63 = *40:62, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:62 = *40:62, *40:62
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:65 = *40:65, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:66 = *40:66, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:69 = *40:69, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:79 = *40:79, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:81 = *40:81, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:88 = *40:88, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:84 = *40:84, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:72:02 = *40:72:02, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:63 = *40:01:01, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:65 = *40:65, *40:65
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:66 = *40:66, *40:66
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:69 = *40:69, *40:69
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:79 = *40:79, *40:79
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:81 = *40:81, *40:81
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:01:01, *40:84 = *40:84, *40:84
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:42, *40:63 = *40:42, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:63, *40:63 = *40:63, *40:92
++-----	-----	+-----	---+---+	-----	-----+	-----+	-----	-----	*40:10:01, *40:10:01 = *40:10:01, *40:49
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:03, *40:16 = *40:27:01, *40:32 =
									*40:27:01, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:03, *40:32 = *40:03, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:02:01, *40:03 = *40:03, *40:27:01 =
									*40:18, *40:27:01
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:03, *40:09 = *40:03, *40:18
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:32, *40:71 = *40:71, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:05, *40:32 = *40:05, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:32, *40:96 = *40:96, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:32, *40:70 = *40:70, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:06:01:01, *40:24 = *40:18, *40:70 =
									*40:24, *40:53 = *40:24, *40:70
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:32, *40:86 = *40:86, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:32, *40:75 = *40:75, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:06:01:01, *40:32 = *40:06:01:01, *40:98
									= *40:53, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:32, *40:44 = *40:44, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:06:01:01, *40:18 = *40:18, *40:53
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:09, *40:44 = *40:18, *40:44
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:32, *40:68 = *40:68, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:18, *40:68 = *40:24, *40:68
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:08, *40:32 = *40:08, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:13, *40:32 = *40:13, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:19, *40:32 = *40:19, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:15, *40:18 = *40:15, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:09, *40:59 = *40:18, *40:59 = *40:24,
									*40:59
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:09, *40:31 = *40:18, *40:31
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:26, *40:32 = *40:26, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:04, *40:32 = *40:04, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:32, *40:99 = *40:98, *40:99
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:28, *40:32 = *40:28, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:24, *40:32 = *40:24, *40:98
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:04, *40:18 = *40:04, *40:24 = *40:24,
									*40:64
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:18, *40:99 = *40:24, *40:99
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:18, *40:28 = *40:24, *40:28
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:09, *40:24 = *40:18, *40:24 = *40:24,
									*40:24
+++++--	---+---	---+---	---+---	---+---	---+---	---+---	---+---	---+---	*40:29, *40:32 = *40:29, *40:98

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+++++---	-----+	-----+	+++++--	-----	-----	-----	-----	+++++--	*40:32, *40:50 = *40:50, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:64 = *40:64, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:11:01, *40:32 = *40:11:01, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:20, *40:32 = *40:20, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:39 = *40:39, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:35 = *40:35, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:40 = *40:40, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:78 = *40:78, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:56 = *40:56, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:57 = *40:57, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:37 = *40:37, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:97 = *40:97, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:82 = *40:82, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:02:04, *40:32 = *40:02:04, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:85 = *40:85, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:90 = *40:90, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:94 = *40:94, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:95 = *40:95, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:02:01, *40:32 = *40:02:01, *40:98 =
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:16, *40:18 = *40:16, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:91 = *40:91, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:32, *40:89 = *40:89, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:09, *40:32 = *40:09, *40:98 = *40:18,
									*40:32 = *40:18, *40:98 = *40:32, *40:98 =
									*40:98, *40:98
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:09, *40:20 = *40:18, *40:20
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:09, *40:18 = *40:18, *40:18
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:27:01 = *40:27:01, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:27:01, *40:91 = *40:27:01, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:02:01, *40:27:01 = *40:27:01, *40:27:01
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:91, *40:93 = *40:93, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:05, *40:06:01:01 = *40:05, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:71, *40:91 = *40:71, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:02:01, *40:71 = *40:05, *40:35 = *40:35,
									*40:71
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:05, *40:91 = *40:05, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:08 = *40:08, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:13 = *40:13, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:09 = *40:09, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:02:04, *40:96 = *40:19, *40:83
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:91, *40:96 = *40:94, *40:96
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:02:01, *40:96 = *40:06:01:01, *40:19 =
									*40:19, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:70, *40:91 = *40:70, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:29 = *40:29, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:50 = *40:50, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:35 = *40:35, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:40 = *40:40, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:78 = *40:53, *40:78
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:56 = *40:53, *40:56
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:57 = *40:53, *40:57
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:37 = *40:37, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:97 = *40:53, *40:97
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:82 = *40:53, *40:82
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:83, *40:91 = *40:83, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:02:01, *40:83 = *40:02:04, *40:06:01:01
									= *40:02:04, *40:53 = *40:02:04, *40:83
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:85 = *40:53, *40:85
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:86, *40:91 = *40:86, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:89 = *40:53, *40:89
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:90 = *40:53, *40:90
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:75, *40:91 = *40:75, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:91 = *40:06:01:01, *40:94
									= *40:53, *40:91 = *40:53, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:02:01, *40:06:01:01 = *40:02:01, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:06:01:01, *40:39 = *40:39, *40:53
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:68, *40:91 = *40:68, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:02:01, *40:68 = *40:04, *40:08
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:08, *40:91 = *40:08, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:13, *40:91 = *40:13, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:19, *40:91 = *40:19, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:14:01, *40:91 = *40:14:01, *40:94
+++++---	-----+	-----+	+++++--	+++++--	-----	-----	-----	+++++--	*40:15, *40:91 = *40:15, *40:94

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+++-	----	+++-	+++-	----	----	----	+++-	*40:14:02, *40:91 = *40:14:02, *40:94
+++-	----	+++-	+++-	----	----	----	+++-	*40:26, *40:91 = *40:26, *40:94
+++-	----	+++-	+++-	+	----	----	+++-	*40:04, *40:91 = *40:04, *40:94
+++-	----	+++-	+++-	+++-	----	----	+++-	*40:28, *40:91 = *40:28, *40:94
+++-	----	+++-	+++-	----	----	----	+++-	*40:91, *40:99 = *40:94, *40:99
+++-	----	+++-	+++-	----	----	----	+++-	*40:16, *40:91 = *40:16, *40:94
+++-	----	+++-	+++-	----	----	----	+++-	*40:29, *40:91 = *40:29, *40:94
+++-	----	+++-	+++-	----	----	----	+++-	*40:02:01, *40:29 = *40:29, *40:29
+++-	----	+++-	+++-	+	----	----	+++-	*40:50, *40:91 = *40:50, *40:94
+++-	----	+++-	+++-	+++-	----	----	+++-	*40:02:01, *40:50 = *40:50, *40:50
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:64, *40:91 = *40:64, *40:94
+++-	----	+++-	+++-	+++-	+++-	----	+++-	*40:11:01, *40:91 = *40:11:01, *40:94
+++-	----	+++-	+++-	+++-	----	----	+++-	*40:39, *40:91 = *40:39, *40:94
+++-	----	+++-	+++-	+++-	----	----	+++-	*40:35, *40:91 = *40:35, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:35 = *40:35, *40:35
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:58, *40:91 = *40:58, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:40, *40:91 = *40:40, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:78, *40:91 = *40:78, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:78 = *40:78, *40:78
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:56, *40:91 = *40:56, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:56 = *40:56, *40:56
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:57, *40:91 = *40:57, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:57 = *40:57, *40:57
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:37, *40:91 = *40:37, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:37 = *40:37, *40:37
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:91, *40:97 = *40:94, *40:97
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:97 = *40:97, *40:97
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:82, *40:91 = *40:82, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:82 = *40:82, *40:82
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:04, *40:91 = *40:02:04, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:02:04 = *40:02:04, *40:02:04
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:90, *40:91 = *40:90, *40:94
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:90 = *40:90, *40:90
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:91, *40:95 = *40:94, *40:95
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:02:01, *40:91 = *40:02:01, *40:94 =
+++-	----	+++-	+++-	+++-	+	----	+++-	*40:91, *40:94 = *40:94, *40:94
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:03, *40:06:01:01 = *40:03, *40:53
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:59 = *40:59, *40:70
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:20 = *40:11:01, *40:44 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:20, *40:53
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:44 = *40:44, *40:53 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:44, *40:95
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:04, *40:59 = *40:59, *40:64 = *40:59,
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:99
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:93 = *40:93, *40:95
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:71 = *40:53, *40:71
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:68 = *40:53, *40:68 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:68, *40:70
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:96 = *40:53, *40:96 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:95, *40:96
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:26 = *40:26, *40:53
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:04, *40:06:01:01 = *40:04, *40:53 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:04, *40:70 = *40:64, *40:70
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:28 = *40:28, *40:53 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:28, *40:70
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:99 = *40:53, *40:99 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:70, *40:99
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:70 = *40:53, *40:70 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:70, *40:70 = *40:70, *40:95
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:64 = *40:53, *40:64
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:11:01 = *40:11:01, *40:53
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:83 = *40:83, *40:95
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:86 = *40:53, *40:86 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:86, *40:86 = *40:86, *40:95
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:75 = *40:53, *40:75 =
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:75, *40:95
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:06:01:01, *40:06:01:01 = *40:06:01:01,
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:53 = *40:06:01:01, *40:95 = *40:53,
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:95
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:04, *40:68 = *40:64, *40:68 = *40:68,
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:99
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:04, *40:34 = *40:34, *40:99
+++-	+++-	+++-	+++-	+++-	+++-	+++-	+++-	*40:04, *40:30 = *40:30, *40:99

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++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:04, *40:28 = *40:28, *40:64
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:04, *40:04 = *40:04, *40:64 = *40:04,
									*40:99 = *40:64, *40:99
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:31, *40:45 = *40:31, *40:80
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:15, *40:77 = *40:16, *40:77
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:14:01, *40:15 = *40:14:01, *40:16 =
									*40:14:02, *40:15 = *40:15, *40:72:01 =
									*40:15, *40:72:02 = *40:16, *40:72:01
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:15, *40:15 = *40:15, *40:16
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:14:02, *40:16 = *40:16, *40:72:02
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:45, *40:80 = *40:80, *40:80
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:53, *40:93 = *40:93, *40:93
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:53, *40:83 = *40:83, *40:83
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:14:01, *40:77 = *40:14:02, *40:77
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:72:01, *40:77 = *40:72:02, *40:77 =
									*40:77, *40:77
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:14:01, *40:14:01 = *40:14:01, *40:14:02
									= *40:14:01, *40:72:01 = *40:14:01,
									*40:72:02 = *40:14:02, *40:72:01
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:72:01, *40:72:01 = *40:72:01, *40:72:02
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:14:02, *40:14:02 = *40:14:02, *40:72:02
++-----	-----	++-----	---+---+	+-----+	-----	-----	-----	+-----	*40:30, *40:34 = *40:34, *40:34

*40:01:01 = *40:01:01-40:01:05, 40:01:07-40:01:10

*40:02:01 = *40:02:01-40:02:03, 40:02:05-40:02:10

*40:06:01:01 = *40:06:01:01-40:06:02

*40:14:02 = *40:14:02-40:14:03

SPECIFICITY TABLE

HLA-B*40 SSP subtyping

Specificities and sizes of the PCR products of the 72 primer mixes used for HLA-B*40 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*40 alleles ³	Other amplified HLA class I alleles ⁴
1	175 bp	800 bp	*40:01:01-40:01:10, 40:07, 40:10:01, 40:12, 40:21-40:23, 40:25, 40:33, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:51-40:52, 40:54-40:55, 40:60-40:63, 40:65-40:67, 40:69, 40:73-40:74, 40:76, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:92	*15:116, 15:124, 44:31, 46:06, 48:03:01-48:03:02
2	215 bp	800 bp	*40:01:01-40:06:02, 40:09, 40:11:01, 40:14:01-40:16, 40:18-40:20, 40:22N-40:39, 40:42-40:48, 40:50-40:57, 40:59-40:60, 40:62-40:67, 40:69-40:74, 40:76-40:99	*13:23, 15:71, 15:175, 18:01:01-18:03, 18:05-18:06, 18:08-18:15, 18:17N-18:24, 18:26-18:28, 18:30-18:32, 18:34-18:42, 18:44-18:49, 27:18, 27:29, 35:63, 37:01:01-37:20, 37:22, 41:01-41:12, 44:15, 44:18, 44:55, 45:01-45:05, 45:07-45:11, 48:22, 49:01:01-49:09, 50:01:01-50:02, 50:04-50:09
3⁵	130 bp	1070 bp	*40:02:01-40:06:02, 40:08-40:09, 40:11:01, 40:13, 40:18-40:20, 40:24, 40:26-40:29, 40:35, 40:37, 40:39, 40:40 ^w , 40:44, 40:50, 40:56-40:57, 40:64, 40:68, 40:70-40:71, 40:74-40:75, 40:78, 40:82, 40:85-40:86, 40:89-40:91, 40:94-40:99	*18:48
4⁵	95 bp	800 bp	*40:02:01-40:02:10, 40:05, 40:08-40:09,	*07:02:01-07:06, 07:08, 07:10, 07:13, 07:15-07:16, 07:19-07:76,

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			40:13, 40:15-40:16, 40:18-40:19, 40:24, 40:27:01, 40:29, 40:31-40:32, 40:35, 40:37, 40:39-40:40, 40:45, 40:50, 40:56- 40:58, 40:78, 40:80, 40:82, 40:85, 40:89- 40:91, 40:94, 40:97- 40:98	07:79-07:83, 07:85-07:99, 08:01:01- 08:08N, 08:10-08:11, 08:13-08:15, 08:17-08:27, 08:29-08:34, 08:36, 08:38-08:48, 08:50-08:59, 08:61, 14:13, 15:45, 27:07, 27:11, 27:24, 27:32-27:34, 27:43, 35:22, 35:31, 35:87, 37:07, 37:09, 39:14, 39:29, 41:02:01-41:02:02, 41:04, 41:10- 41:11, 42:01:01-42:02, 42:05:01- 42:05:02, 42:07-42:08, 42:10-42:12, 44:54, 48:01:01-48:01:02, 48:04- 48:06, 48:08-48:13, 48:15-48:16, 48:18-48:20, 48:22, 51:64, 51:81, 55:04, 58:27, 81:01-81:04N, C*03:05, C*03:25, C*03:27
5	190 bp	800 bp	*40:03, 40:18, 40:20, 40:24, 40:31- 40:33, 40:44, 40:52, 40:59, 40:98	*07:02:01-07:02:09, 07:02:11- 07:02:17, 07:02:19-07:04, 07:07- 07:13, 07:15-07:16, 07:18:01- 07:18:02, 07:21-07:23, 07:25-07:27, 07:29-07:30, 07:33, 07:35-07:39, 07:41-07:42, 07:44-07:52, 07:54- 07:59, 07:61-07:68:01, 07:70-07:73, 07:75-07:77, 07:79, 07:81-07:89, 07:91-07:95, 07:98-07:99, 13:26, 13:35, 15:40, 15:47, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 18:10, 18:21, 18:35, 27:34, 27:41, 35:15, 35:33, 35:66, 35:86, 37:07, 46:06, 48:08, 57:13, 57:25, C*02:06, C*02:23, C*02:36
6⁵	95 bp	1070 bp	*40:03, 40:27:01	*07:09, 07:11, 07:17, 08:28, 08:35, 08:37, 14:05, 15:07:01, 15:55, 15:68, 15:126, 18:14, 35:05:01- 35:05:02, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 38:19, 39:03, 39:24, 39:37, 42:06, 42:09, 46:12, 48:07, 48:14, 53:14, 58:18, C*08:08
7^{5,7}	105 bp	800 bp	*40:12, 40:46, 40:93	*07:27, 07:50, 08:04, 08:17, 08:54, 15:03:01-15:03:03, 15:47, 15:54, 15:61-15:62, 15:64, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 18:37, 27:18, 27:29, 38:03, 39:02:01- 39:02:02, 39:08, 39:13:01-39:13:02, 39:23, 39:39, 39:49, 42:11, 44:40, 44:44, 48:01:01-48:05, 48:07-48:22, 52:16, 55:18

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8	235 bp	1070 bp	*40:05, 40:71	*07:20, 07:24, 07:60, 08:21, 08:25, 15:07:01, 15:45, 15:55, 15:68, 15:126, 35:05:01-35:05:02, 35:16-35:17, 35:22, 35:30, 35:51, 35:58, 35:72, 35:89, 35:97, 44:54, 46:12, 51:64, 53:14, 58:18, C*03:05, C*03:25, C*03:27
9	160 bp	1070 bp	*40:06:01:01-40:06:02, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:96	*07:78, 07:84, 27:14, 51:01:09, 51:10, 51:24:02-51:24:03, 54:11, 73:01
10	215 bp	1070 bp	*40:07-40:08, 40:13, 40:68	*18:07:01-18:07:02, 18:29, 27:23, 35:50, 35:84, 37:21
11⁵	85 bp	1070 bp	*40:77, 40:87:01	*15:124, 48:14, 54:22, 58:05, C*07:81
12⁵	95 bp	1070 bp	*40:08, 40:25, 40:68	*15:143, 18:48, 35:19, 35:47, 44:12
13⁵	90 bp	1070 bp	*40:03, 40:09, 40:18, 40:24, 40:31-40:32, 40:98	*07:02:01-07:04, 07:08-07:11, 07:13, 07:15-07:17, 07:19-07:31, 07:33, 07:35-07:39, 07:41-07:52, 07:54-07:68:01, 07:70-07:76, 07:79, 07:81-07:83, 07:85-07:89, 07:91-07:96:01, 07:98-07:99, 08:07, 08:28, 08:37, 15:07:01, 15:45, 15:55, 15:68, 18:14, 18:22, 27:34, 35:05:01-35:05:02, 35:16-35:17, 35:30, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 37:07, 37:09, 39:29, 41:04, 42:09, 44:54, 46:12, 48:08, 53:14, 58:18, C*03:05, C*03:25, C*03:27
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15	150 bp	800 bp	*40:13, 40:19, 40:47, 40:96	*37:06, 44:02:01:01-44:02:12, 44:03:01-44:05:02, 44:07, 44:10-44:39, 44:41:01-44:43:01, 44:45, 44:47-44:56N, 44:58N-44:59, 44:61N-44:74, 44:76-44:82, 44:84-44:89, 44:91-44:99, 47:01:01:01-47:01:01:02, 47:03-47:07, 49:01:01-49:02, 49:04-49:10
16^{5,10}	75 bp, 160 bp	800 bp	*40:14:01, 40:15, 40:72:01, 40:77	*07:02:13, 18:35, 35:66, 42:05:01-42:05:02, 48:12, C*07:38
17^{5,6}	120 bp	800 bp	*40:01:01-40:01:10, 40:07, 40:10:01, 40:12,	*07:25, 07:48, 18:35, 27:36, 35:66, 41:08, 42:05:01-42:05:02, 44:31, 46:06, 48:01:01-48:01:02,

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18⁵	105 bp	800 bp	*40:01:06, 40:26	*07:02:11, 07:05:03, 15:01:02, 15:09, 51:06:01, 51:59, 51:64
19	320 bp	1070 bp	*40:04, 40:24, 40:28, 40:59-40:60, 40:68, 40:70, 40:99	*07:12, 07:78, 07:84, 13:01:01- 13:04, 13:06-13:09, 13:11-13:20, 13:22:01-13:23, 13:25-13:34, 13:36- 13:37, 15:16, 15:20, 15:34, 15:42, 15:62, 15:67, 15:85-15:86, 15:95, 15:137, 18:22, 27:14, 35:01:01:01- 35:11:01, 35:13-35:15, 35:18-35:21, 35:23-35:30, 35:33-35:38, 35:40N- 35:42:02, 35:45-35:50, 35:52-35:58, 35:60, 35:62-35:66, 35:68:01-35:72, 35:74-35:78, 35:80-35:85, 35:88- 35:98, 41:04, 41:07, 44:10, 44:15, 44:18, 44:48, 45:01-45:11, 46:11, 46:18, 48:02:01-48:02:02, 48:17, 49:01:01-49:10, 50:01:01, 50:02, 50:05-50:09, 51:15, 51:56:01, 53:01:01-53:06, 53:08:01-53:23, 54:01:01-54:05N, 54:07-54:08N, 54:10-54:22, 55:01:01-55:01:05, 55:02:01-55:03, 55:05, 55:07, 55:09-55:13, 55:15-55:16, 55:18- 55:37, 55:39-55:40, 56:01:01-56:02, 56:07-56:11, 56:13-56:17, 56:19N- 56:20, 56:22-56:26, 56:28N-56:29, 57:05, 58:01:01-58:02, 58:04-58:07, 58:09, 58:11-58:19, 58:21-58:26, 58:28, 59:01:01:01-59:05, 82:01- 82:03
20^{5,11}	135 bp, 285 bp	1070 bp	*40:14:01-40:16, 40:23, 40:31-40:32, 40:45, 40:80, 40:98	*07:02:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:52, 07:54- 07:59, 07:61-07:99, 15:138, 18:35, 35:66, 37:07, 41:08, 42:05:01- 42:05:02, 48:01:01-48:01:02, 48:05- 48:12, 48:14-48:16, 48:18-48:20,

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21^{5,6}	145 bp	800 bp	*40:21	*13:09, 15:01:01:01-15:01:04, 15:01:06-15:02:04, 15:04-15:08, 15:11:01-15:12, 15:14-15:15, 15:19-15:21, 15:25:01-15:28, 15:30-15:35, 15:38:01-15:40, 15:42, 15:44-15:45, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:86, 15:88, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135-15:142, 15:144-15:150, 15:152, 15:154-15:155, 15:159-15:160, 15:163-15:167, 15:169-15:172, 15:174-15:175, 15:178-15:179, 15:181N-15:185, 15:187-15:191, 35:46, 46:01:01-46:03, 46:05-46:22, 55:35, 57:12
22	235 bp	800 bp	*40:02:01-40:03, 40:08-40:09, 40:13, 40:15-40:16, 40:18-40:19, 40:24, 40:27:01, 40:29, 40:31-40:32, 40:35, 40:37, 40:40, 40:45, 40:50, 40:56-40:58, 40:78, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97-40:98	*07:02:01-07:06, 07:08-07:11, 07:13, 07:15-07:17, 07:21-07:23, 07:25-07:30, 07:32-07:33, 07:35-07:42, 07:44-07:59, 07:61-07:76, 07:79-07:83, 07:85-07:99, 08:40, 27:07, 27:11, 27:24, 27:32-27:34, 27:43, 35:31, 35:66, 37:07, 48:01:01-48:01:02, 48:04-48:16, 48:18-48:20, 48:22, 51:81, 58:27, 81:01-81:04N
23⁵	95 bp	800 bp	*40:29	C*12:25
24	165 bp	1070 bp	*40:34	
25⁵	125 bp	1070 bp	*40:43, 40:50	*44:90, 45:06
26⁵	120 bp	1070 bp	*40:15-40:16, 40:23, 40:32, 40:98	*07:02:01-07:18:02, 07:20-07:24, 07:26-07:32, 07:34-07:39, 07:41-07:47, 07:49N-07:50, 07:52, 07:54-07:59, 07:61-07:99, 15:138, 37:07, 48:05, 48:08, 48:15, C*02:23
27	180 bp	800 bp	*40:22N	
28	335 bp	1070 bp	*40:01:01-40:01:10, 40:04, 40:07, 40:10:01-40:12, 40:14:01-40:14:03, 40:20-40:23,	*07:07, 07:12, 07:14, 07:18:01-07:18:02, 07:77, 08:12:01-08:12:03, 08:16, 08:49, 13:01:01-13:01:03, 13:06-13:07N, 13:10-13:13, 13:17, 13:20-13:23, 13:25-13:26,

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30	190 bp	1070 bp	*40:01:01-40:02:10, 40:04, 40:06:01:01- 40:08, 40:10:01- 40:16, 40:19, 40:21- 40:23, 40:25, 40:27:01, 40:29- 40:30, 40:34-40:38, 40:40, 40:43, 40:45- 40:50, 40:53-40:58, 40:61-40:62, 40:64- 40:70, 40:72:01- 40:88, 40:90-40:91, 40:93-40:97, 40:99	*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 08:40, 13:01:01-13:01:02, 13:02:01-13:02:07, 13:07N-13:09, 13:11, 13:13-13:23, 13:25, 13:27- 13:33, 13:36-13:37, 27:07, 27:11, 27:20, 27:24, 27:27, 27:33, 27:43, 35:31, 35:88, 39:47, 39:50, 44:31, 48:01:01-48:01:02, 48:03:01-48:07, 48:09-48:16, 48:18-48:22, 51:10, 51:16, 51:31, 51:34, 51:81-51:82, 51:93, 52:08, 55:09, 55:22, 55:24, 58:27, 81:01-81:04N
31⁶	225 bp	1070 bp	*40:38, 40:48, 40:52, 40:59-40:60	*07:09, 07:11, 07:17, 07:78, 15:138, 18:35, 35:66, 46:06, 48:14, C*07:38
32	255 bp	1070 bp	*40:01:01-40:09, 40:11:01, 40:14:01- 40:16, 40:18, 40:20, 40:22N-40:39, 40:42-40:46, 40:48, 40:50-40:57, 40:59- 40:75, 40:77-40:95, 40:97-40:99	*15:71, 15:175, 18:01:01-18:03, 18:05-18:08, 18:10-18:15, 18:17N- 18:24, 18:26-18:42, 18:44-18:49, 27:08, 27:12, 27:18, 27:26, 27:33, 27:40, 27:42, 27:44, 35:50, 35:63, 35:84, 37:05, 37:11, 37:14 ^w , 39:31, 41:01-41:04, 41:06-41:12, 42:02, 42:09, 45:01-45:11, 46:14, 48:22, 50:01:01-50:02, 50:04-50:09, 54:02, 55:16, 73:01
33	245 bp	1070 bp	*40:04, 40:30, 40:34, 40:59, 40:64, 40:68	*07:12, 07:14, 07:18:01-07:18:02, 13:01:01-13:01:03, 13:07N, 13:13, 13:17, 13:20-13:23, 13:25-13:26, 13:28-13:29, 13:36, 27:19, 27:30, 35:15, 35:33, 35:88, 44:16, 44:21, 44:64:01-44:64:02, 48:17, 57:13, 57:25, C*03:34
34	235 bp	1070 bp	*40:42, 40:60	*07:14, 07:17, 07:28, 07:96:01, 27:36, 48:17, C*07:38
35^{5,8}	140 bp	800 bp	*40:35, 40:71	*07:68:01, 14:05, 14:13, 15:07:01, 15:45, 15:55, 15:68, 15:126, 18:14,

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36⁵	135 bp	1070 bp	*40:10:01, 40:40, 40:49, 40:58	*15:46, 15:53, 15:106, 35:47, 44:02:01-44:05:02, 44:09-44:14, 44:16-44:17, 44:19N-44:39, 44:41:01-44:43:01, 44:45-44:48, 44:50-44:54, 44:56N, 44:58N-44:59, 44:61N-44:80, 44:82, 44:84-44:99, 47:01:01-47:07, 49:10
37^{5,12}	125 bp, 270 bp	1070 bp	*40:28, 40:51	*14:10, 18:22, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 37:04:01 ^w -37:04:02 ^w , 51:04, 51:46, 51:56:01, 53:02, 53:06, 57:14, 58:09
38^{5,6}	120 bp	1070 bp	*40:28	*35:01:10, 35:04:02, 44:62, 51:04, 51:46, 51:56:01
39⁶	330 bp	800 bp	*40:12	*15:03:01-15:03:03, 15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:29, 15:37, 15:46-15:47, 15:49, 15:51-15:54, 15:61-15:62, 15:64, 15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, C*07:46
40⁵	120 bp	1070 bp	*40:38, 40:52, 40:59-40:60	*15:116, 15:124, 46:06
41⁶	205 bp	1070 bp	*40:08, 40:25, 40:68	*18:01:01-18:03, 18:05-18:11, 18:13-18:15, 18:17N-18:24, 18:26-18:42, 18:44-18:49, 27:23, 35:50, 35:84, 37:08, 39:31, 42:02 ^w , 42:09 ^w , 54:02 ^w , 55:16 ^w , 73:01 ^w
42⁵	95 bp	1070 bp	*40:58	*44:02:10, 44:34
43	185 bp	1070 bp	*40:30, 40:34, 40:59	*48:17
44^{5,13}	110 bp, 205 bp	800 bp	*40:54, 40:78	
45¹⁴	175 bp, 235 bp	1070 bp	*40:55-40:56	
46⁹	545 bp	1070 bp	*40:11:01, 40:20, 40:26, 40:74	*15:71, 15:175, 18:01:01-18:01:05, 18:01:07-18:01:08, 18:03, 18:05-18:07:02, 18:09-18:13, 18:15, 18:17N, 18:19-18:21, 18:23N-18:24,

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47⁵	145 bp	800 bp	*40:57	
48¹⁵	215 bp, 245 bp	1070 bp	*40:61, 40:73	*18:06, 46:14
49⁵	120 bp	1070 bp	*40:36, 40:48	*48:07, 54:22
50	250 bp	1070 bp	*40:37, 40:76	*18:49, 27:42, 37:05
51	205 bp	1070 bp	*40:62	
52⁵	90 bp	1070 bp	*40:63, 40:92	*15:116
53	165 bp	1070 bp	*40:65	
54⁵	130 bp	800 bp	*40:66	
55^{5,8}	125 bp	800 bp	*40:67	
56^{5,8,16}	100 bp, 165 bp	1070 bp	*40:69, 40:97	
57	385 bp	1070 bp	*40:79	*07:23
58	190 bp	1070 bp	*40:31, 40:80	*48:01:01-48:01:02, 48:04, 48:06- 48:07, 48:09, 48:11, 48:14-48:16, 48:18-48:20, 48:22, 81:01-81:04N
59	190 bp	1070 bp	*40:81	
60^{5,17}	135 bp, 250 bp	800 bp	*40:82, 40:88	
61⁵	80 bp	1070 bp	*40:02:04, 40:83	*15:46, 15:106, 15:143, 35:19, 35:47, 37:06, 44:84
62	195 bp	800 bp	*40:84	
63	180 bp	1070 bp	*40:85	
64⁵	105 bp	1070 bp	*40:86	*15:137, 39:06:01-39:06:02, 39:33- 39:34, 39:50, 39:57, 45:02, 50:09, 51:13:01-51:13:02, 51:92, 52:14, 55:13, 56:22, 59:03, 73:01
65^{5,18}	130 bp, 170 bp	1070 bp	*40:02:01-40:02:10, 40:04-40:06:02, 40:08, 40:11:01, 40:13-40:16, 40:19, 40:23, 40:26-40:29, 40:35, 40:37, 40:39- 40:40, 40:50, 40:53, 40:56-40:58, 40:64, 40:68, 40:70-40:71, 40:75, 40:78, 40:82- 40:83, 40:86, 40:90, 40:93-40:97, 40:99	*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 08:01:01-08:05, 08:08N-08:12:01, 08:12:03-08:13, 08:15-08:27, 08:29-08:36, 08:38- 08:48, 08:50-08:61, 13:03, 13:18, 13:22:01-13:22:02, 13:31, 14:13, 15:09, 15:30, 15:42, 15:48, 15:58, 15:73, 15:83, 15:86, 15:150, 15:188, 18:26, 27:07, 27:11, 27:20, 27:27, 27:33, 27:43, 35:02:01 ^w -35:02:04 ^w , 35:04:01-35:04:03, 35:06, 35:09:01- 35:09:02, 35:12:01-35:12:02, 35:18,

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66⁵	145 bp	1070 bp	*40:14:01-40:16, 40:32, 40:72:01-40:72:02, 40:77, 40:98	*07:02:01-07:18:02, 07:20-07:22:01, 07:23-07:32, 07:34-07:39, 07:41-07:52, 07:54-07:59, 07:61-07:99, 15:138, 18:35, 35:66, 37:07, 41:08, 42:05:01-42:05:02, 48:05, 48:08, 48:10, 48:12, 48:14, C*02:23, C*07:38
67^{5,6}	85 bp	1070 bp	*40:89	
68	225 bp	1070 bp	*40:90	
69⁵	75 bp	800 bp	*40:91, 40:94	*13:21
70	505 bp	1070 bp	*40:09, 40:18, 40:24, 40:31-40:33, 40:42, 40:44, 40:59-40:60, 40:98	*13:35, 41:04, 44:02:01:01-44:03:05, 44:03:07-44:05:02, 44:09, 44:11-44:13, 44:16, 44:19N-44:30, 44:32-44:37, 44:39-44:42, 44:44-44:56N, 44:58N-44:61N, 44:63-44:76, 44:78-44:81, 44:84-44:99
71⁵	120 bp	800 bp	*40:75	*38:12

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72⁶	245 bp	1070 bp	*40:06:01:01- 40:06:02, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:95-40:96	*07:78, 07:84, 13:02:01-13:02:07, 13:08Q-13:09, 13:14-13:16, 13:18- 13:19, 13:27, 13:30-13:35, 13:37, 27:14, 39:50, 45:10, 49:07, 51:10, 51:16, 51:31, 51:34, 51:82, 51:93, 52:08, 55:09, 55:22, 55:24, 73:01
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¹Alleles 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 HLA-B*40 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.

²The 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 shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*40 subtyping.

In addition, wells number 2, 4, 5, 7, 14, 15, 16, 17, 18, 21, 22, 23, 27, 29, 35, 39, 44, 47, 54, 55, 60, 62, 69 and 71 contain the primer pair giving rise to the shorter, 800 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.

³For several HLA-B alleles first exon nucleotide sequences are not 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 exon are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B*40 alleles will be amplified by primer mixes 1, 2, 3, 4 to 22, 25, 26, 28 to 43, 46, 48 to 50, 52, 57, 58, 61, 64 to 66 and 69 to 72.

In addition, the C*02:06 and 02:36 alleles will be amplified by primer mix 5, the C*02:23 allele will be amplified by primer mixes 5, 20, 26 and 66, the HLA-C*03:05, 03:25 and 03:27 alleles will be amplified by primer mixes 4, 8 and 13, the C*03:34 allele will be amplified by primer mix 33, the C*07:38 allele will be amplified by primer mixes 16, 31, 34 and 66, the C*07:46 allele will be amplified by primer mix 39, the C*07:81 allele will be amplified by primer mix 11, the C*08:08 allele by primer mixes 6 and 29, the C*12:25 allele will be amplified by primer mix 23, the C*15:24 allele will be amplified by primer mix 65, and the C*17 alleles faintly by primer mix 7.

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

⁶Primer mixes 17, 21, 31, 38, 39, 41, 67 and 72 have a tendency of giving rise to nonspecific amplifications.

⁷Primer mix 7 may faintly amplify the C*17 alleles.

⁸Primer mixes 35, 55 and 56 have a tendency to give rise to a primer dimer artifact.

⁹Primer mix 46 may give a lower yield of specific PCR product than the other B*40 primer mixes.

¹⁰Primer mix 16: Specific PCR fragment of 75 bp in the B*40:15 allele. Specific PCR fragment of 160 bp in the B*40:14:01, 40:72:01 and 40:77 and the B*07:02:13, 18:35, 35:66, 42:05:01-42:05:02 and 48:12 and in the C*07:38 alleles.

¹¹Primer mix 20: Specific PCR fragment of 135 bp in the B*40:14:01-40:14:03, 40:23 and the B*07:07, 07:12, 07:14, 07:18:01-07:18:02, 07:77, 07:78, 07:84, 15:138, 18:35 and 41:08 and C*02:23 alleles.

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Specific PCR fragment of 285 bp in the B*40:31 and 40:80 and the B*48:01:01-48:01:02, 48:06, 48:07, 48:09, 48:11, 48:14-48:16, 48:18-48:20, 48:22 and 81:01-81:04N alleles. Specific PCR fragments of 135 and 285 bp in the B*40:15-40:16, 40:32, 40:45, 40:98 and B*07:02:01-07:06, 07:08-07:11, 07:13, 07:15-07:17, 07:20-07:32, 07:34-07:39, 07:41-07:52, 07:54-07:59, 07:61-07:76, 07:79-07:83, 07:85-07:99, 35:66, 37:07, 42:05:01-42:05:02, 48:05, 48:08, 48:10 and 48:12 alleles. (Both specific fragments may not always be obtained.)

¹²Primer mix 37: Specific PCR fragment of 125 bp in the B*40:51 allele. Specific PCR fragment of 270 bp in the B*40:28 and the B*14:10, 18:22, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 37:04:01^w-37:04:02^w, 51:04, 51:46, 51:56:01, 53:02, 53:06, 57:14 and 58:09 alleles.

¹³Primer mix 44: Specific PCR fragment of 110 bp in the B*40:78 allele. Specific PCR fragment of 205 bp in the B*40:54 allele.

¹⁴Primer mix 45: Specific PCR fragment of 175 bp in the B*40:56 allele. Specific PCR fragment of 235 bp in the B*40:55 alleles.

¹⁵Primer mix 48: Specific PCR fragment of 215 bp in the B*40:61 allele. Specific PCR fragment of 245 bp in the B*40:73 and B*18:06 and 46:14 alleles.

¹⁶Primer mix 56: Specific PCR fragment of 100 bp in the B*40:69 allele. Specific PCR fragment of 165 bp in the B*40:97 allele.

¹⁷Primer mix 60: Specific PCR fragment of 135 bp in the B*40:82 allele. Specific PCR fragment of 250 bp in the B*40:88 allele.

¹⁸Primer mix 65: Specific PCR fragment of 130 bp in the B*40:02:01-40:02:09, 40:04-40:06:02, 40:08, 40:11:01, 40:13-40:14:03, 40:19, 40:26-40:29, 40:35, 40:37, 40:39-40:40, 40:50, 40:53, 40:56-40:58, 40:64, 40:68, 40:70-40:71, 40:75, 40:78, 40:82-40:83, 40:86, 40:90, 40:93-40:97, 40:99 and the B*07:34, 07:80, 08:01:01-08:05, 08:08N-08:12:01, 08:12:03-08:13, 08:15-08:19, 08:21-08:27, 08:29-08:36, 08:38-08:39, 08:41-08:48, 08:50-08:61, 13:03, 13:22:01-13:22:02, 14:13, 15:09, 15:42, 15:48, 15:83, 15:86, 15:188, 18:26, 27:07, 27:11, 27:20, 27:27, 27:33, 27:43, 35:02:01^w-35:02:04^w, 35:04:01-35:04:03, 35:06, 35:09:01-35:09:02, 35:12:01-35:12:02, 35:22, 35:31, 35:59-35:60, 35:81^w, 35:83^w, 35:87-35:88, 35:95^w, 37:12, 38:01:01, 38:01:03-38:21, 39:01:01:01-39:01:01:02L, 39:01:03-39:06:02, 39:09, 39:10, 39:12-39:14, 39:16, 39:19-39:20, 39:22, 39:24, 39:26-39:28, 39:30-39:32, 39:34-39:35, 39:37-39:42, 39:45-39:48, 39:50-39:54, 39:56-39:57, 41:01-41:03:02, 41:05-41:09, 41:11-41:12, 42:01:01-42:02, 42:04-42:08, 42:10-42:13, 44:10, 44:14, 44:62, 44:77, 44:82, 46:11, 46:18, 48:10, 48:12-48:13, 51:01:01-51:02:02, 51:02:04-51:16, 51:19-51:24:03, 51:26, 51:28, 51:30-51:36, 51:38-51:41N, 51:43-51:44N, 51:46, 51:48-51:53, 51:55-51:60, 51:62-51:74, 51:76-51:81, 51:83, 51:86-51:89, 51:91, 51:95, 52:01:01:01-52:11, 52:13-52:20, 53:19^w, 54:01:01-54:05N, 54:07-54:08N, 54:12-54:13, 54:17-54:19, 54:21, 55:01:01-55:05, 55:07-55:08, 55:10-55:13, 55:15-55:20, 55:22, 55:24-55:26, 55:28-55:36, 55:38-55:40, 56:01:01-56:02, 56:04-56:08, 56:10, 56:12-56:17, 56:19N-56:29, 57:03:01-57:03:02, 57:07, 57:09, 57:17, , 58:08, 58:20, 58:27-58:28, 59:01:01:01-59:05, 67:01:01-67:02, 78:01-78:07 and 82:01-82:03 and the C*15:24 alleles. Specific PCR fragment of 170 bp in the B*40:23 and B*48:19 alleles. Specific PCR fragment of 130 and 170 bp in the B*40:15-40:16 and the B*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:78, 07:90, 07:97, 08:20, 08:40, 13:18, 13:31, 15:30, 15:58, 15:73, 15:150, 35:18, 35:44, 39:08, 39:11, 39:18, 39:33, 39:36, 48:05, 51:05, 51:29, 51:54, 51:61, 51:82, 54:10, 54:20, 55:09, 55:21, 55:37, 57:02:01-57:02:02, 57:12 and 57:28N alleles. (Both specific fragments may not always be obtained.)

‘w’, might be weakly amplified.

INTERPRETATION TABLE																																																			
HLA-B*40 SSP subtyping																																																			
Amplification patterns of the B*40:01 to B*40:99 alleles																																																			
	Well ³																																																		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6					
Length of spec.	175	215	130	95	190	95	105	235	160	215	85	95	90	90	150	75	120	105	320	135	145	235	95	165	125	120	180	335	235	190	225	255	245	235	140	135															
PCR product															160																																				
Length of int. pos. control ¹	800	800	1070	800	800	1070	800	1070	1070	1070	1070	1070	1070	800	800	800	800	800	1070	1070	800	800	800	1070	1070	1070	800	1070	800	1070	1070	1070	1070	1070	800	1070															
Well No.										1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
HLA-B allele ²	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6															
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Well No.										1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3		
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																											*35:50, 35:84
																											*35:51
3 3 3 4	4 4 4 4	4 4 4 4	4 5 5 5	5 5 5 5	5 5 5 6	6 6 6 6	6 6 6 6	6 6 6 6	6 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	7 7 7 7	Well No.
7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2 3 4	5 6 7 8	9 0 1 2	3 4 5 6	7 8 9 0	1 2	

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September 2013
Rev. No.: 01u



For *In Vitro* Diagnostic Use.

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3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	Well No.		
7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9		0	1

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Primer mix 56: Specific PCR fragment of 100 bp in the B*40:69 allele. Specific PCR fragment of 165 bp in the B*40:97 allele.

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'w', might be weakly amplified.

Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
5'-primer(s) ¹	363 5'-Agg 3'	97 5'-TCC 3'	106 5'-CCg 3'	363 5'-AgC 3'	412 5'-ATg 3'	363 5'-AgC 3'	206 5'-AgA 3'	363 5'-AgC 3'	357 5'-Tgg 3'	97 5'-TCC 3'	463 5'-TgA 3'	206 5'-gAA 3'
								363 5'-AgC 3'				
3'-primer(s) ²	499 5'-ggA 3'	272 5'-Tgg 3'	193 5'-CgT 3'	419 5'-CgT 3'	559 5'-CTC 3'	418 5'-gTT 3'	272 5'-Tgg 3'	559 5'-CAg 3'	477 5'-gCg 3'	272 5'-TgA 3'	499 5'-ggA 3'	259 5'-gTT 3'
			193 5'-TgT 3'			419 5'-Cgg 3'					512 5'-CCA 3'	
						419 5'-CgA 3'						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
5'-primer(s) ¹	363 5'-AgC 3'	144 5'-gCA 3'	206 5'-gAA 3'	486 5'-ACC 3'	527 5'-TgT 3'	369 5'-TAC 3'	379 5'-ACC 3'	363 5'-AgC 3'	209 5'-ggC 3'	363 5'-AgC 3'	257 5'-CCC 3'	436 5'-AgA 3'
	363 5'-AgC 3'			570 5'-gAT 3'				512 5'-gTg 3'				
3'-primer(s) ²	412 5'-gTC 3'	193 5'-CgT 3'	317 5'-ggA 3'	605 5'-gCT 3'	605 5'-gCT 3'	435 5'-TCT 3'	3 rd I 5'-TAT 3'	605 5'-gCT 3'	311 5'-ggT 3'	559 5'-CTC 3'	311 5'-ggT 3'	559 5'-CTC 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
5'-primer(s) ¹	206 5'-gAA 3'	527 5'-TgA 3'	106 5'-CCA 3'	361 5'-AgT 3'	363 5'-AgC 3'	412 5'-ATA 3'	419 5'-gTC 3'	97 5'-TCC 3'	355 5'-TCA 3'	409 5'-ggT 3'	363 5'-AgC 3'	97 5'-TCT 3'
				363 5'-Agg 3'		412 5'-ATA 3'	420 5'-TTA 3'					
				363 5'-Agg 3'								
3'-primer(s) ²	292 5'-gTC 3'	605 5'-gCT 3'	243 5'-TAA 3'	3 rd I 5'-TAT 3'	559 5'-CgT 3'	559 5'-CTC 3'	605 5'-gCT 3'	311 5'-ggT 3'	559 5'-CTC 3'	605 5'-gCT 3'	463 5'-gCT 3'	193 5'-CgT 3'
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
5'-primer(s) ¹	355 5'-TCA 3'	355 5'-TCA 3'	45 5'-ggA 3'	419 5'-gTC 3'	97 5'-TCC 3'	141 5'-ATT 3'	355 5'-TCA 3'	412 5'-ATA 3'	814 5'-TgA 3'	103 5'-CCT 3'	89 5'-gAC 3'	97 5'-TCC 3'
	499 5'-TCT 3'								874 5'-Cgg 3'			
3'-primer(s) ²	583 5'-gTg 3'	435 5'-TCT 3'	206 5'-CCT 3'	499 5'-ggA 3'	259 5'-gTT 3'	193 5'-CgT 3'	499 5'-ggA 3'	479 5'-CCA 3'	916 5'-gAC 3'	362 5'-TCC 3'	193 5'-CgT 3'	272 5'-TgT 3'
								577 5'-gCT 3'				299 5'-TCA 3'
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
5'-primer(s) ¹	419 5'-gTT 3'	97 5'-TCC 3'	490 5'-CgA 3'	512 5'-gTT 3'	363 5'-Agg 3'	206 5'-gAA 3'	523 5'-CCg 3'	206 5'-gAA 3'	322 5'-gCC 3'	363 5'-AgC 3'	124 5'-gCC 3'	350 5'-TCg 3'
				512 5'-gTT 3'				636 5'-CAC 3'				466 5'-gTC 3'
3'-primer(s) ²	499 5'-ggA 3'	302 5'-ggT 3'	3 rd I 5'-TAT 3'	559 5'-CAg 3'	488 5'-CCA 3'	296 5'-CTT 3'	605 5'-gCT 3'	263 5'-gTA 3'	419 5'-CgT 3'	512 5'-CCA 3'	272 5'-Tgg 3'	559 5'-CTC 3'
		312 5'-AgT 3'						760 5'-AAA 3'				
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
5'-primer(s) ¹	165	97	363	357	412	499	363	363	142	193	193	357
	5' -ACC 3'	5' -TCC 3'	5' -AgC 3'	5' -Tgg 3'	5' -ATA 3'	5' -TCA 3'	5' -AgC 3'	5' -AgC 3'	5' -TCA 3'	5' -CCA 3'	5' -CCA 3'	5' -Tgg 3'
					412				477			
					5' -ATA 3'				5' -gCC 3'			
3'-primer(s) ²	203	251	500	419	499	605	409	547	175	412	272	559
	5' -TCC 3'	5' -CCg 3'	5' -ggA 3'	5' -CgA 3'	5' -ggT 3'	5' -gCT 3'	5' -ATA 3'	5' -gTg 3'	5' -CCg 3'	5' -gTC 3'	5' -TgC 3'	5' -CTC 3'
					539				506			
					5' -TCC 3'				5' -TgA 3'			
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

¹The nucleotide position, in the 1st, 2nd, 3rd or 4th exons or 2nd or 3rd intron, matching the specificity-determining 3'-the primer is given. 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. 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.

²The nucleotide position, in the 2nd, 3rd or 5th exons or the 1st or 3rd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. 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.

CELL LINE VALIDATION SHEET																					
HLA-B*40 SSP subtyping kit																					
					Well																
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:		200852501	201184802	201069903	200852504	200852505	200852506	200852507	200852508	200852509	200852510	200852511	200852512	200852513	200852514	200852515	200852516
	IHC cell line		B*																		
1	9001	SA	*07:02		-	-	-	+	+	-	-	-	-	-	-	-	-	+	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
30	9021	RSH	*42:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	+	+	-	-	-	-	-	-	-	-	+	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	+	+	-	-	-	-	-	-	-	-	+	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-

Lot No.: **07M**

Lot-specific information

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CELL LINE VALIDATION SHEET																																
HLA-B*40 SSP subtyping kit																																
					Well																											
						17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32											
				Prod. No.:		200852517	200852518	200852519	200852520	200852521	200852522	200852523	200852524	200852525	200852526	200852527	200852528	200852529	201184830	200852531	200852532											
	IHC cell line		B*																													
1	9001	SA	*07:02			-	-	-	+	-	+	-	-	-	+	-	-	-	-	-	-											
2	9280	LK707	*52:01		*73:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+											
3	9011	E4181324	*52:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
4	9275	GU373	*15:10		*53:01	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-											
5	9009	KAS011	*37:01			-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-											
6	9353	SM	*39:01		*51:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
7	9020	QBL	*18:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+											
8	9025	DEU	*35:01			-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-											
9	9026	YAR	*38:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
10	9107	LKT3	*54:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-											
11	9051	PITOUT	*44:03			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
12	9052	DBB	*57:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
13	9004	JESTHOM	*27:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
14	9071	OLGA	*15:01		*15:20	-	-	+	-	+	-	-	-	-	-	-	+	-	-	-	-											
15	9075	DKB	*40:01			+	-	-	-	-	-	-	-	-	-	-	+	-	+	-	+											
16	9037	SWEIG007	*40:02			-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	+											
17	9282	CTM3953540	*08:01		*55:01	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-											
18	9257	32367	*14:01		*56:01	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-											
19	9038	BM16	*18:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+											
20	9059	SLE005	*40:01			+	-	-	-	-	-	-	-	-	-	-	+	-	+	-	+											
21	9064	AMALA	*15:01			-	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-											
22	9056	KOSE	*35:03			-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-											
23	9124	IHL	*40:02		*56:02	-	-	+	-	-	+	-	-	-	-	-	+	-	+	-	+											
24	9035	JBUSH	*38:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
25	9049	IBW9	*14:02			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
26	9285	WT49	*58:01			-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-											
27	9191	CH1007	*07:05		*51:01	-	-	-	+	-	+	-	-	-	+	-	-	-	+	-	-											
28	9320	BEL5GB	*44:02		*44:03	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
29	9050	MOU	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
30	9021	RSH	*42:01			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-											
31	9019	DUCAF	*18:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+											
32	9297	HAG	*41:02			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+											
33	9098	MT14B	*40:01			+	-	-	-	-	-	-	-	-	-	-	+	-	+	-	+											
34	9104	DHIF	*38:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
35	9302	SSTO	*44:02			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
36	9024	KT17	*15:01		*35:01	-	-	+	-	+	-	-	-	-	-	-	+	-	-	-	-											
37	9065	HHKB	*07:02			-	-	-	+	-	+	-	-	-	-	+	-	-	-	-	-											
38	9099	LZL	*15:01			-	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-											
39	9315	CML	*08:01		*27:05	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-											
40	9134	WHONP199	*13:02		*46:01	-	-	+	-	+	-	-	-	-	-	-	+	-	+	-	-											
41	9055	H0301	*14:02			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
42	9066	TAB089	*46:01			-	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-											
43	9076	T7526	*46:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
44	9057	TEM	*38:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
45	9239	SHJO	*42:01		*50:01	-	-	+	-	-	-	-	-	-	+	-	-	+	-	-	+											
46	9013	SCHU	*07:02			-	-	-	+	-	+	-	-	-	-	+	-	-	-	-	-											
47	9045	TUBO	*51:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
48	9303	TER-ND	*35:01		*44:03	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-											

CELL LINE VALIDATION SHEET				Well															
HLA-B*40 SSP subtyping kit																			
			Prod. No.:																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
				200852534	200852534	200852534	200852536	200852537	200852538	200852539	200852540	200852541	200852542	200852543	200852544	200852545	201069946	200852547	200852548
IHC cell line				B*															
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	W	-	-	-	-	-	-	-
3	9011 E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*18:01		-	-	-	-	-	-	-	-	+	-	-	-	-	+	-	-
8	9025 DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*44:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01		-	-	-	-	-	-	-	-	+	-	-	-	-	+	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01		-	-	-	-	-	-	-	-	+	-	-	-	-	+	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: **07M**

Lot-specific information

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CELL LINE VALIDATION SHEET																					
HLA-B*40 SSP subtyping kit																					
					Well																
						49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
					Prod. No.:	200852549	200852550	200852551	200852552	200852553	200852554	200852555	201069956	200852557	200852558	200852559	200852560	200852561	200852562	200852563	200852564
	IHC cell line		B*																		
1	9001	SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01		*73:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
3	9011	E4181324	*52:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10		*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01		*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01		*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01		*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01		*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02		*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05		*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02		*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01		*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01		*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02		*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01		*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01		*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: **07M**

Lot-specific information

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CELL LINE VALIDATION SHEET					Well							
HLA-B*40 SSP subtyping kit					65	66	67	68	69	70	71	72
				Prod. No.:	201184865	200852566	200852567	200852568	201069969	200852570	200852571	201069972
	IHWC cell line	B*										
1	9001 SA	*07:02			-	+	-	-	-	-	-	-
2	9280 LK707	*52:01	*73:01		+	-	-	-	-	-	-	+
3	9011 E4181324	*52:01			+	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01		-	-	-	-	-	-	-	-
5	9009 KAS011	*37:01			-	-	-	-	-	-	-	-
6	9353 SM	*39:01	*51:01		+	-	-	-	-	-	-	-
7	9020 QBL	*18:01			-	-	-	-	-	-	-	-
8	9025 DEU	*35:01			-	-	-	-	-	-	-	-
9	9026 YAR	*38:01			+	-	-	-	-	-	-	-
10	9107 LKT3	*54:01			+	-	-	-	-	-	-	-
11	9051 PITOUT	*44:03			-	-	-	-	-	+	-	-
12	9052 DBB	*57:01			-	-	-	-	-	-	-	-
13	9004 JESTHOM	*27:05			-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20		-	-	-	-	-	-	-	-
15	9075 DKB	*40:01			-	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02			+	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01		+	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01		+	-	-	-	-	-	-	-
19	9038 BM16	*18:01			-	-	-	-	-	-	-	-
20	9059 SLE005	*40:01			-	-	-	-	-	-	-	-
21	9064 AMALA	*15:01			-	-	-	-	-	-	-	-
22	9056 KOSE	*35:03			-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02		+	-	-	-	-	-	-	-
24	9035 JBUSH	*38:01			+	-	-	-	-	-	-	-
25	9049 IBW9	*14:02			-	-	-	-	-	-	-	-
26	9285 WT49	*58:01			-	-	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01		+	+	-	-	-	+	-	-
28	9320 BEL5GB	*44:02	*44:03		-	-	-	-	-	+	-	-
29	9050 MOU	*44:03			-	-	-	-	-	-	-	-
30	9021 RSH	*42:01			+	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01			-	-	-	-	-	-	-	-
32	9297 HAG	*41:02			+	-	-	-	-	-	-	-
33	9098 MT14B	*40:01			-	-	-	-	-	-	-	-
34	9104 DHIF	*38:01			+	-	-	-	-	-	-	-
35	9302 SSTO	*44:02			-	-	-	-	-	+	-	-
36	9024 KT17	*15:01	*35:01		-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02			-	+	-	-	-	-	-	-
38	9099 LZL	*15:01			-	-	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05		+	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01		-	-	-	-	-	-	-	+
41	9055 H0301	*14:02			-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01			-	-	-	-	-	-	-	-
43	9076 T7526	*46:01			-	-	-	-	-	-	-	-
44	9057 TEM	*38:01			+	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01		+	-	-	-	-	-	-	-
46	9013 SCHU	*07:02			-	+	-	-	-	-	-	-
47	9045 TUBO	*51:01			+	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03		-	-	-	-	-	+	-	-

CERTIFICATE OF ANALYSIS**Olerup SSP® HLA-B*40 SSP**

Product number:

101.523-24u/03u – without *Taq* pol.

Lot number:

07M

Expiry date:

2013-September-01

Number of tests:

24 tests – Product No. 101.523-24u

3 tests – Product No. 101.523-03u

Number of wells per test:

72

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2008-525-01	25	2008-525-25	49	2008-525-49
2	2011-848-02	26	2008-525-26	50	2008-525-50
3	2010-699-03	27	2008-525-27	51	2008-525-51
4	2008-525-04	28	2008-525-28	52	2008-525-52
5	2008-525-05	29	2008-525-29	53	2008-525-53
6	2008-525-06	30	2011-848-30	54	2008-525-54
7	2008-525-07	31	2008-525-31	55	2008-525-55
8	2008-525-08	32	2008-525-32	56	2010-699-56
9	2008-525-09	33	2008-525-33	57	2008-525-57
10	2008-525-10	34	2008-525-34	58	2008-525-58
11	2008-525-11	35	2008-525-35	59	2008-525-59
12	2008-525-12	36	2008-525-36	60	2008-525-60
13	2008-525-13	37	2008-525-37	61	2008-525-61
14	2008-525-14	38	2008-525-38	62	2008-525-62
15	2008-525-15	39	2008-525-39	63	2008-525-63
16	2008-525-16	40	2008-525-40	64	2008-525-64
17	2008-525-17	41	2008-525-41	65	2011-848-65
18	2008-525-18	42	2008-525-42	66	2008-525-66
19	2008-525-19	42	2008-525-43	67	2008-525-67
20	2008-525-20	43	2008-525-44	68	2008-525-68
21	2008-525-21	45	2008-525-45	69	2010-699-69
22	2008-525-22	46	2010-699-46	70	2008-525-70
23	2008-525-23	47	2008-525-47	71	2008-525-71
24	2008-525-24	48	2008-525-48	72	2010-699-72

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 11, 16, 23, 24, 25, 27, 34, 37, 38, 42 to 45, 47 to 57, 59 to 63, 67 to 69, and 71 were available. The specificities of the primers in primer solutions 11, 16, 25, 34, 37, 38, 42, 43, 45, 48 to 50, 52, 61, 69 and 71 were tested by separately adding one or two additional 5'-primers, respectively one or two additional 3'-primers. In primer solutions 27, 44, 53, 54, 56, 62, 63, 67 and 68 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

Lot No.: **07M**

Lot-specific information

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In primer solutions 23, 24, 47, 51, 55, 57, 59 and 60 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

One of the 3'-primers in primer solutions 3 and 6 and one of the 5'-primers in primer solutions 16, 30, 45 and 65 were not possible to test.

One additional 3'-primer in primer solution 6 was tested by separately adding one additional 5'-primer.

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

Date of approval: 2011-April-21

Approved by:

Quality Control, Supervisor

Lot No.: **07M**

Lot-specific information

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Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*40
Product number: 101.523-24u/03u
Lot number: 07M

Intended use: HLA-B*40 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Franzengatan 5
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, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

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

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

Stockholm, Sweden
2013-September-16

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

Lot No.: **07M**

Lot-specific information

www.olerup-ssp.com

ADDRESSES:

Manufacturer:

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