

Olerup SSP[®] HLA-C*07

Product number:	101.615-24/04 – including <i>Taq</i> pol.
Lot number:	62M
Expiry date:	2014-March-01
Number of tests:	24 tests – Product No. 101.615-24 4 tests – Product No. 101.615-04
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. 62M.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] HLA-C*07 LOT

The HLA-C*07 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP[®]* HLA-C*07 lot was made (Lot No. 03M).

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

Well	5'-primer	3'-primer	rationale
34	-	-	Exchanged positive control primer pair.

Change in revision R01 compared to R00:

1. Primer mix 20 does not amplify the C*07:48 allele. This has been corrected in the specificity and amplification tables. Thus, this lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:02:01:01-07:02:14 and C*07:48 alleles.

Change in revision R02 compared to R01:

1. Footnotes for primer mix 20 corrected in the specificity and amplification tables, as this primer mix does not amplify the C*07:48 allele.

PRODUCT DESCRIPTION

HLA-C*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C*07:01 to HLA-C*07:99 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 'HLA-C*07' in silver/gray ink.

Well No. 1 is marked with the Lot No. '62M'.

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 heat-sealed with a PCR-compatible foil.

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

INTERPRETATION

The interpretation of HLA-C*07 SSP subtypings will be influenced by the C*02:14 allele, nine C*03 alleles, nine C*04 alleles, the C*05, most C*06 alleles, most C*08 alleles, three C*12 alleles, the C*14:17 allele, two C*15 alleles, the C*17 and the C*18 alleles when present on the other haplotype.

In addition, the A*29:10 allele will be amplified by primer mix 12, the A*30:01:03 allele by primer mix 20, the B*07:77 allele will be amplified by primer mixes 18 and 37, the B*08:06, B*08:17, B*08:39 and B*08:47 alleles by primer mix 32, the B*27:36 and B*48:21 alleles by primer mix 7, the B*35:08:04 allele by primer mixes 2, 11, 20 and 27, the B*37:04:02 allele by primer mixes 11, 14 and 20, the B*40:60 allele by primer mixes 4, 18 and 37, the B*46:06 allele by primer mix 16, the B*56:08 and B*56:14 alleles by primer mix 25 and the B*73:01 allele will be amplified by primer mix 45.

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*07 alleles, i.e. **C*07:01 to C*07:99**, recognized by the HLA Nomenclature Committee in April 2010¹ will give rise to unique amplification patterns by the primers in the HLA-C*07 subtyping kit².

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Lot-specific Information

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The HLA-C*07 subtyping kit cannot distinguish the C*07:01:01-07:01:04 and 07:01:06-07:01:12 alleles, the C*07:02:01:01-07:02:14 alleles, the C*07:04:01-07:04:03, the C*07:27:01-07:27:02 or the C*07:56:01-07:56:02 alleles.

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

²The HLA-C*07 subtyping kit cannot distinguish the C*07:02:01:01-07:02:14 and C*07:48 alleles.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 215 alleles generate 99 amplification patterns that can be combined in 4950 homozygous and heterozygous combinations. 1678 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.

+++++---+	-----+	-----+	-----	-----	-----	*07:02:01:01, *07:06 = *07:06, *07:54
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:10 = *07:24, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:56:01 = *07:09, *07:79
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:13 = *07:28, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:50 = *07:76, *07:89
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:15 = *07:52, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:20, *07:33N = *07:29, *07:96 = *07:33N, *07:96
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:33N = *07:09, *07:51 = *07:26, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:29, *07:92 = *07:33N, *07:73 = *07:33N, *07:92
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:01:01, *07:33N = *07:26, *07:29 = *07:26, *07:33N
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:48 = *07:76, *07:81
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:54 = *07:18, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:23 = *07:21, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:25 = *07:22, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:46 = *07:30, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:32N = *07:55N, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:37 = *07:69, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:47 = *07:35, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:42 = *07:36, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:39 = *07:40, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:66 = *07:76, *07:82
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:67 = *07:70, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:72 = *07:71, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:64 = *07:73, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:61N = *07:58, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:74 = *07:59, *07:76
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:88 = *07:76, *07:91
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:99 = *07:76, *07:94
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:90 = *07:76, *07:83
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:97 = *07:76, *07:86
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:09, *07:87 = *07:76, *07:85
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:01:01, *07:76 = *07:02:01:01, *07:09 = *07:09, *07:29 = *07:09, *07:49 = *07:09, *07:62 = *07:09, *07:76 = *07:49, *07:78 = *07:76, *07:78
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:28 = *07:13, *07:24
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:89 = *07:24, *07:50
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:52 = *07:15, *07:24
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:26 = *07:24, *07:51
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:81 = *07:24, *07:48
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:18 = *07:19, *07:43 = *07:24, *07:54
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:21 = *07:23, *07:24
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:22 = *07:24, *07:25
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:30 = *07:24, *07:46
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:55N = *07:24, *07:32N
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:69 = *07:24, *07:37
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:35 = *07:24, *07:47
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:36 = *07:24, *07:42
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:40 = *07:24, *07:39
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:82 = *07:24, *07:66
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:70 = *07:24, *07:67
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:71 = *07:24, *07:72
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:73 = *07:24, *07:64
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:58 = *07:24, *07:61N
+++++---+	+++++---+	-----+	-----+	-----+	-----	*07:10, *07:59 = *07:24, *07:74

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++++--	--+-----	-----	-----	-----+	-----	*07:10, *07:78 = *07:24, *07:62
++++--	--+-----	-----	-----	-----	+-----	*07:10, *07:91 = *07:24, *07:88
++++--	--+-----	-----	-----	-----	--+-----	*07:10, *07:94 = *07:24, *07:99
++++--	--+-----	-----	-----	-----	-----+	*07:10, *07:83 = *07:24, *07:90
++++--	--+-----	-----	-----	-----	-----+	*07:10, *07:86 = *07:24, *07:97
++++--	--+-----	-----	-----	-----	-----+	*07:10, *07:85 = *07:24, *07:87
++++--	--+-----	-----	-----	-----	-----	*07:01:01, *07:10 = *07:02:01:01, *07:24 = *07:10, *07:24
++++--	-----++	-----	-----	-----	-----	*07:13, *07:89 = *07:28, *07:50
++++--	-----++	+-----	-----	-----	-----	*07:13, *07:52 = *07:15, *07:28
++++--	-----++	--+-----	-----	-----	-----	*07:13, *07:26 = *07:28, *07:51
++++--	-----++	-----+	-----	-----	-----	*07:13, *07:81 = *07:28, *07:48
++++--	-----++	-----+	-----	-----	-----	*07:13, *07:18 = *07:28, *07:54
++++--	-----++	-----+	-----	-----	-----	*07:13, *07:21 = *07:23, *07:28
++++--	-----++	-----+	-----	-----	-----	*07:13, *07:22 = *07:25, *07:28
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:30 = *07:28, *07:46
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:55N = *07:28, *07:32N
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:69 = *07:28, *07:37
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:35 = *07:28, *07:47
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:36 = *07:28, *07:42
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:40 = *07:28, *07:39
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:82 = *07:28, *07:66
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:70 = *07:28, *07:67
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:71 = *07:28, *07:72
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:73 = *07:28, *07:64
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:58 = *07:28, *07:61N
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:59 = *07:28, *07:74
++++--	-----++	-----+	+-----	-----	-----	*07:13, *07:78 = *07:28, *07:62
++++--	-----++	-----+	+-----	-----	+-----	*07:13, *07:91 = *07:28, *07:88
++++--	-----++	-----+	+-----	-----	--+-----	*07:13, *07:94 = *07:28, *07:99
++++--	-----++	-----+	+-----	-----	-----+	*07:13, *07:83 = *07:28, *07:90
++++--	-----++	-----+	+-----	-----	-----+	*07:13, *07:86 = *07:28, *07:97
++++--	-----++	-----+	+-----	-----	-----+	*07:13, *07:85 = *07:28, *07:87
++++--	-----++	-----+	+-----	-----	-----	*07:01:01, *07:13 = *07:02:01:01, *07:28 = *07:13, *07:28
++++--	-----++	+-----	-----	-----	-----	*07:15, *07:89 = *07:50, *07:52
++++--	-----++	--+-----	-----	-----	-----	*07:26, *07:50 = *07:51, *07:89
++++--	-----++	-----+	-----	-----	-----	*07:48, *07:89 = *07:50, *07:81
++++--	-----++	-----+	-----	-----	-----	*07:14, *07:19 = *07:18, *07:50 = *07:54, *07:89
++++--	-----++	-----+	-----	-----	-----	*07:21, *07:50 = *07:23, *07:89
++++--	-----++	-----+	-----	-----	-----	*07:22, *07:50 = *07:25, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:30, *07:50 = *07:46, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:32N, *07:89 = *07:50, *07:55N
++++--	-----++	-----+	+-----	-----	-----	*07:37, *07:89 = *07:50, *07:69
++++--	-----++	-----+	+-----	-----	-----	*07:35, *07:50 = *07:47, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:36, *07:50 = *07:42, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:39, *07:89 = *07:40, *07:50
++++--	-----++	-----+	+-----	-----	-----	*07:50, *07:82 = *07:66, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:50, *07:70 = *07:67, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:50, *07:71 = *07:72, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:50, *07:73 = *07:64, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:50, *07:58 = *07:61N, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:50, *07:59 = *07:74, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:50, *07:78 = *07:62, *07:89
++++--	-----++	-----+	+-----	-----	+-----	*07:50, *07:91 = *07:88, *07:89
++++--	-----++	-----+	+-----	-----	--+-----	*07:50, *07:94 = *07:89, *07:99
++++--	-----++	-----+	+-----	-----	-----+	*07:50, *07:83 = *07:89, *07:90
++++--	-----++	-----+	+-----	-----	-----+	*07:50, *07:86 = *07:89, *07:97
++++--	-----++	-----+	+-----	-----	-----+	*07:50, *07:85 = *07:87, *07:89
++++--	-----++	-----+	+-----	-----	-----	*07:01:01, *07:50 = *07:02:01:01, *07:89 = *07:50, *07:89
++++--	-----++	+-----	-----	-----	-----	*07:15, *07:26 = *07:51, *07:52
++++--	-----++	+-----	-----	-----	-----	*07:15, *07:81 = *07:48, *07:52
++++--	-----++	+-----	-----	-----	-----	*07:15, *07:18 = *07:52, *07:54
++++--	-----++	+-----	-----	-----	-----	*07:15, *07:21 = *07:23, *07:52
++++--	-----++	+-----	-----	-----	-----	*07:15, *07:22 = *07:25, *07:52
++++--	-----++	+-----	+-----	-----	-----	*07:15, *07:30 = *07:46, *07:52
++++--	-----++	+-----	+-----	-----	-----	*07:15, *07:55N = *07:32N, *07:52
++++--	-----++	+-----	+-----	-----	-----	*07:15, *07:69 = *07:37, *07:52
++++--	-----++	+-----	+-----	-----	-----	*07:15, *07:35 = *07:47, *07:52
++++--	-----++	+-----	+-----	-----	-----	*07:15, *07:36 = *07:42, *07:52
++++--	-----++	+-----	+-----	-----	-----	*07:15, *07:40 = *07:39, *07:52
++++--	-----++	+-----	+-----	-----	-----	*07:15, *07:82 = *07:52, *07:66



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++++--	-----+	-+-----	-----	-+-----	-----	*07:15, *07:70 = *07:52, *07:67
++++--	-----+	-+-----	-----	-+-----	-----	*07:15, *07:71 = *07:52, *07:72
++++--	-----+	-+-----	-----	---+-----	-----	*07:15, *07:73 = *07:52, *07:64
++++--	-----+	-+-----	-----	-----+--	-----	*07:15, *07:58 = *07:52, *07:61N
++++--	-----+	-+-----	-----	-----+--	-----	*07:15, *07:59 = *07:52, *07:74
++++--	-----+	-+-----	-----	-----+--	-----	*07:15, *07:78 = *07:52, *07:62
++++--	-----+	-+-----	-----	-----+--	-----	*07:15, *07:91 = *07:52, *07:88
++++--	-----+	-+-----	-----	-----+--	-----	*07:15, *07:94 = *07:52, *07:99
++++--	-----+	-+-----	-----	-----+--	-----	*07:15, *07:83 = *07:52, *07:90
++++--	-----+	-+-----	-----	-----+--	-----	*07:15, *07:86 = *07:52, *07:97
++++--	-----+	-+-----	-----	-----+--	-----	*07:15, *07:85 = *07:52, *07:87
++++--	-----+	-+-----	-----	-----	-----	*07:01:01, *07:15 = *07:02:01:01, *07:52 = *07:15, *07:52
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:48 = *07:51, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:18, *07:51 = *07:26, *07:54
++++--	-----+	---+-----	-----	---+-----	-----	*07:20, *07:80 = *07:72, *07:96 = *07:80, *07:96
++++--	-----+	---+-----	-----	---+-----	-----	*07:02:01:01, *07:96 = *07:20, *07:51 = *07:51, *07:96 = *07:64, *07:96 = *07:84, *07:92 = *07:84, *07:96
++++--	-----+	---+-----	-----	-----	-----	*07:21, *07:51 = *07:23, *07:26
++++--	-----+	---+-----	-----	-----	-----	*07:22, *07:51 = *07:25, *07:26
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:46 = *07:30, *07:51
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:32N = *07:51, *07:55N
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:37 = *07:51, *07:69
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:47 = *07:35, *07:51
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:42 = *07:36, *07:51
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:39 = *07:40, *07:51
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:66 = *07:51, *07:82
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:67 = *07:51, *07:70
++++--	-----+	---+-----	-----	-----	-----	*07:72, *07:92 = *07:73, *07:80 = *07:80, *07:92
++++--	-----+	---+-----	-----	-----	-----	*07:01:01, *07:80 = *07:26, *07:72 = *07:26, *07:80 = *07:51, *07:71 = *07:71, *07:80
++++--	-----+	---+-----	-----	-----	-----	*07:02:01:01, *07:92 = *07:26, *07:64 = *07:51, *07:73 = *07:51, *07:92 = *07:64, *07:92
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:61N = *07:51, *07:58
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:74 = *07:51, *07:59
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:62 = *07:51, *07:78
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:88 = *07:51, *07:91
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:99 = *07:51, *07:94
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:90 = *07:51, *07:83
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:97 = *07:51, *07:86
++++--	-----+	---+-----	-----	-----	-----	*07:26, *07:87 = *07:51, *07:85
++++--	-----+	---+-----	-----	-----	-----	*07:01:01, *07:51 = *07:02:01:01, *07:26 = *07:26, *07:51
++++--	-----+	---+-----	-----	-----	-----	*07:18, *07:48 = *07:54, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:21, *07:48 = *07:23, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:22, *07:48 = *07:25, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:30, *07:48 = *07:46, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:32N, *07:81 = *07:48, *07:55N
++++--	-----+	---+-----	-----	-----	-----	*07:37, *07:81 = *07:48, *07:69
++++--	-----+	---+-----	-----	-----	-----	*07:02:01:01, *07:44 = *07:35, *07:48 = *07:44, *07:47 = *07:44, *07:48 = *07:47, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:36, *07:48 = *07:42, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:39, *07:81 = *07:40, *07:48
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:82 = *07:66, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:70 = *07:67, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:71 = *07:72, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:73 = *07:64, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:58 = *07:61N, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:59 = *07:74, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:78 = *07:62, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:91 = *07:81, *07:88
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:94 = *07:81, *07:99
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:83 = *07:81, *07:90
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:86 = *07:81, *07:97
++++--	-----+	---+-----	-----	-----	-----	*07:48, *07:85 = *07:81, *07:87
++++--	-----+	---+-----	-----	-----	-----	*07:01:01, *07:48 = *07:02:01:01, *07:81 = *07:48, *07:81
++++--	-----+	---+-----	-----	-----	-----	*07:18, *07:23 = *07:21, *07:54
++++--	-----+	---+-----	-----	-----	-----	*07:18, *07:25 = *07:22, *07:54
++++--	-----+	---+-----	-----	-----	-----	*07:18, *07:46 = *07:30, *07:54
++++--	-----+	---+-----	-----	-----	-----	*07:18, *07:32N = *07:19, *07:31 = *07:54, *07:55N
++++--	-----+	---+-----	-----	-----	-----	*07:18, *07:37 = *07:54, *07:69
++++--	-----+	---+-----	-----	-----	-----	*07:18, *07:47 = *07:35, *07:54



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++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:42 = *07:36, *07:54
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:39 = *07:40, *07:54
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:66 = *07:54, *07:82
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:67 = *07:54, *07:70
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:72 = *07:54, *07:71
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:64 = *07:54, *07:73
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:61N = *07:54, *07:58
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:74 = *07:54, *07:59
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:62 = *07:54, *07:78
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:88 = *07:54, *07:91
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:99 = *07:54, *07:94
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:90 = *07:54, *07:83
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:97 = *07:54, *07:86
++++----	-----+	----+---	----+---	-----	-----	*07:18, *07:87 = *07:54, *07:85
++++----	-----+	----+---	----+---	-----	-----	*07:01:01, *07:54 = *07:02:01:01, *07:18 = *07:18, *07:54 = *07:19, *07:27:01
++++----	-----+	----+---	----+---	-----	-----	*07:02:01:01, *07:20 = *07:20, *07:64 = *07:20, *07:84 = *07:73, *07:84
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:25 = *07:22, *07:23
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:46 = *07:23, *07:30
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:32N = *07:23, *07:55N
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:37 = *07:23, *07:69
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:47 = *07:23, *07:35
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:42 = *07:23, *07:36
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:39 = *07:23, *07:40
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:66 = *07:23, *07:82
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:67 = *07:23, *07:70
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:72 = *07:23, *07:71
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:64 = *07:23, *07:73
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:61N = *07:23, *07:58
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:74 = *07:23, *07:59
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:62 = *07:23, *07:78
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:88 = *07:23, *07:91
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:99 = *07:23, *07:94
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:90 = *07:23, *07:83
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:97 = *07:23, *07:86
++++----	-----+	----+---	----+---	-----	-----	*07:21, *07:87 = *07:23, *07:85
++++----	-----+	----+---	----+---	-----	-----	*07:01:01, *07:23 = *07:02:01:01, *07:21 = *07:21, *07:23
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:46 = *07:25, *07:30
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:32N = *07:25, *07:55N
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:37 = *07:25, *07:69
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:47 = *07:25, *07:35
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:42 = *07:25, *07:36
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:39 = *07:25, *07:40
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:66 = *07:25, *07:82
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:67 = *07:25, *07:70
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:72 = *07:25, *07:71
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:64 = *07:25, *07:73
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:61N = *07:25, *07:58
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:74 = *07:25, *07:59
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:62 = *07:25, *07:78
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:88 = *07:25, *07:91
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:99 = *07:25, *07:94
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:90 = *07:25, *07:83
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:97 = *07:25, *07:86
++++----	-----+	----+---	----+---	-----	-----	*07:22, *07:87 = *07:25, *07:85
++++----	-----+	----+---	----+---	-----	-----	*07:01:01, *07:25 = *07:02:01:01, *07:22 = *07:22, *07:25
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:32N = *07:46, *07:55N
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:37 = *07:46, *07:69
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:47 = *07:35, *07:46
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:42 = *07:36, *07:46
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:39 = *07:40, *07:46
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:66 = *07:46, *07:82
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:67 = *07:46, *07:70
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:72 = *07:46, *07:71
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:64 = *07:46, *07:73
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:61N = *07:46, *07:58
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:74 = *07:46, *07:59
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:62 = *07:46, *07:78
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:88 = *07:46, *07:91
++++----	-----+	----+---	----+---	-----	-----	*07:30, *07:99 = *07:46, *07:94



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++++----	-----+	-----+	+-----	-----	-----+	*07:30, *07:90 = *07:46, *07:83
++++----	-----+	-----+	+-----	-----	-----+	*07:30, *07:97 = *07:46, *07:86
++++----	-----+	-----+	+-----	-----	-----+	*07:30, *07:87 = *07:46, *07:85
++++----	-----+	-----+	+-----	-----	-----+	*07:01:01, *07:46 = *07:02:01:01, *07:30 = *07:30, *07:46
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:69 = *07:37, *07:55N
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:35 = *07:47, *07:55N
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:36 = *07:42, *07:55N
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:40 = *07:39, *07:55N
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:82 = *07:55N, *07:66
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:70 = *07:55N, *07:67
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:71 = *07:55N, *07:72
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:73 = *07:55N, *07:64
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:58 = *07:55N, *07:61N
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:59 = *07:55N, *07:74
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:78 = *07:55N, *07:62
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:91 = *07:55N, *07:88
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:94 = *07:55N, *07:99
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:83 = *07:55N, *07:90
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:86 = *07:55N, *07:97
++++----	-----+	-----+	+-----	-----	-----+	*07:32N, *07:85 = *07:55N, *07:87
++++----	-----+	-----+	+-----	-----	-----+	*07:01:01, *07:32N = *07:02:01:01, *07:55N = *07:32N, *07:55N
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:37 = *07:47, *07:69
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:37 = *07:42, *07:69
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:40 = *07:39, *07:69
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:82 = *07:66, *07:69
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:70 = *07:67, *07:69
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:71 = *07:69, *07:72
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:73 = *07:64, *07:69
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:58 = *07:61N, *07:69
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:59 = *07:69, *07:74
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:78 = *07:62, *07:69
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:91 = *07:69, *07:88
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:94 = *07:69, *07:99
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:83 = *07:69, *07:90
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:86 = *07:69, *07:97
++++----	-----+	-----+	+-----	-----	-----+	*07:37, *07:85 = *07:69, *07:87
++++----	-----+	-----+	+-----	-----	-----+	*07:01:01, *07:37 = *07:02:01:01, *07:69 = *07:37, *07:69
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:42 = *07:36, *07:47
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:39 = *07:40, *07:47
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:66 = *07:47, *07:82
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:67 = *07:47, *07:70
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:72 = *07:47, *07:71
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:64 = *07:47, *07:73
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:61N = *07:47, *07:58
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:74 = *07:47, *07:59
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:62 = *07:47, *07:78
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:88 = *07:47, *07:91
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:99 = *07:47, *07:94
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:90 = *07:47, *07:83
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:97 = *07:47, *07:86
++++----	-----+	-----+	+-----	-----	-----+	*07:35, *07:87 = *07:47, *07:85
++++----	-----+	-----+	+-----	-----	-----+	*07:01:01, *07:47 = *07:02:01:01, *07:35 = *07:35, *07:47
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:39 = *07:40, *07:42
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:66 = *07:42, *07:82
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:67 = *07:42, *07:70
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:72 = *07:42, *07:71
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:64 = *07:42, *07:73
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:61N = *07:42, *07:58
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:74 = *07:42, *07:59
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:62 = *07:42, *07:78
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:88 = *07:42, *07:91
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:99 = *07:42, *07:94
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:90 = *07:42, *07:83
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:97 = *07:42, *07:86
++++----	-----+	-----+	+-----	-----	-----+	*07:36, *07:87 = *07:42, *07:85
++++----	-----+	-----+	+-----	-----	-----+	*07:01:01, *07:42 = *07:02:01:01, *07:36 = *07:36, *07:42
++++----	-----+	-----+	+-----	-----	-----+	*07:39, *07:82 = *07:40, *07:66
++++----	-----+	-----+	+-----	-----	-----+	*07:39, *07:70 = *07:40, *07:67



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++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:71 = *07:40, *07:72
++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:73 = *07:40, *07:64
++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:58 = *07:40, *07:61N
++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:59 = *07:40, *07:74
++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:78 = *07:40, *07:62
++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:91 = *07:40, *07:88
++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:94 = *07:40, *07:99
++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:83 = *07:40, *07:90
++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:86 = *07:40, *07:97
++++--	-----+	-----	-----+	--+-----	-----	*07:39, *07:85 = *07:40, *07:87
++++--	-----+	-----	-----+	--+-----	-----	*07:01:01, *07:39 = *07:02:01:01, *07:40 = *07:39, *07:40
++++--	-----+	-----	-----+	--+-----	-----	*07:66, *07:70 = *07:67, *07:82
++++--	-----+	-----	-----+	--+-----	-----	*07:66, *07:71 = *07:72, *07:82
++++--	-----+	-----	-----+	--+-----	-----	*07:64, *07:82 = *07:66, *07:73
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:66 = *07:61N, *07:82
++++--	-----+	-----	-----+	--+-----	-----	*07:59, *07:66 = *07:74, *07:82
++++--	-----+	-----	-----+	--+-----	-----	*07:62, *07:82 = *07:66, *07:78
++++--	-----+	-----	-----+	--+-----	-----	*07:66, *07:91 = *07:82, *07:88
++++--	-----+	-----	-----+	--+-----	-----	*07:66, *07:94 = *07:82, *07:99
++++--	-----+	-----	-----+	--+-----	-----	*07:66, *07:83 = *07:82, *07:90
++++--	-----+	-----	-----+	--+-----	-----	*07:66, *07:86 = *07:82, *07:97
++++--	-----+	-----	-----+	--+-----	-----	*07:66, *07:85 = *07:82, *07:87
++++--	-----+	-----	-----+	--+-----	-----	*07:01:01, *07:66 = *07:02:01:01, *07:82 = *07:66, *07:82
++++--	-----+	-----	-----+	--+-----	-----	*07:67, *07:71 = *07:70, *07:72
++++--	-----+	-----	-----+	--+-----	-----	*07:64, *07:70 = *07:67, *07:73
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:67 = *07:61N, *07:70
++++--	-----+	-----	-----+	--+-----	-----	*07:59, *07:67 = *07:70, *07:74
++++--	-----+	-----	-----+	--+-----	-----	*07:62, *07:70 = *07:67, *07:78
++++--	-----+	-----	-----+	--+-----	-----	*07:67, *07:91 = *07:70, *07:88
++++--	-----+	-----	-----+	--+-----	-----	*07:67, *07:94 = *07:70, *07:99
++++--	-----+	-----	-----+	--+-----	-----	*07:67, *07:83 = *07:70, *07:90
++++--	-----+	-----	-----+	--+-----	-----	*07:67, *07:86 = *07:70, *07:97
++++--	-----+	-----	-----+	--+-----	-----	*07:67, *07:85 = *07:70, *07:87
++++--	-----+	-----	-----+	--+-----	-----	*07:01:01, *07:67 = *07:02:01:01, *07:70 = *07:67, *07:70
++++--	-----+	-----	-----+	--+-----	-----	*07:64, *07:71 = *07:72, *07:73
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:72 = *07:61N, *07:71
++++--	-----+	-----	-----+	--+-----	-----	*07:59, *07:72 = *07:71, *07:74
++++--	-----+	-----	-----+	--+-----	-----	*07:62, *07:71 = *07:72, *07:78
++++--	-----+	-----	-----+	--+-----	-----	*07:71, *07:88 = *07:72, *07:91
++++--	-----+	-----	-----+	--+-----	-----	*07:71, *07:99 = *07:72, *07:94
++++--	-----+	-----	-----+	--+-----	-----	*07:71, *07:90 = *07:72, *07:83
++++--	-----+	-----	-----+	--+-----	-----	*07:71, *07:97 = *07:72, *07:86
++++--	-----+	-----	-----+	--+-----	-----	*07:71, *07:87 = *07:72, *07:85
++++--	-----+	-----	-----+	--+-----	-----	*07:01:01, *07:72 = *07:02:01:01, *07:71 = *07:71, *07:72
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:64 = *07:61N, *07:73
++++--	-----+	-----	-----+	--+-----	-----	*07:59, *07:64 = *07:73, *07:74
++++--	-----+	-----	-----+	--+-----	-----	*07:62, *07:73 = *07:64, *07:78
++++--	-----+	-----	-----+	--+-----	-----	*07:64, *07:91 = *07:73, *07:88
++++--	-----+	-----	-----+	--+-----	-----	*07:64, *07:94 = *07:73, *07:99
++++--	-----+	-----	-----+	--+-----	-----	*07:64, *07:83 = *07:73, *07:90
++++--	-----+	-----	-----+	--+-----	-----	*07:64, *07:86 = *07:73, *07:97
++++--	-----+	-----	-----+	--+-----	-----	*07:64, *07:85 = *07:73, *07:87
++++--	-----+	-----	-----+	--+-----	-----	*07:01:01, *07:64 = *07:02:01:01, *07:73 = *07:64, *07:73
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:74 = *07:59, *07:61N
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:62 = *07:61N, *07:78
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:88 = *07:61N, *07:91
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:99 = *07:61N, *07:94
++++--	-----+	-----	-----+	--+-----	-----	*07:02:01:01, *07:65 = *07:61N, *07:65 = *07:61N, *07:98N
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:90 = *07:61N, *07:83
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:97 = *07:61N, *07:86
++++--	-----+	-----	-----+	--+-----	-----	*07:58, *07:87 = *07:61N, *07:85
++++--	-----+	-----	-----+	--+-----	-----	*07:01:01, *07:61N = *07:02:01:01, *07:58 = *07:58, *07:61N
++++--	-----+	-----	-----+	--+-----	-----	*07:59, *07:62 = *07:74, *07:78
++++--	-----+	-----	-----+	--+-----	-----	*07:59, *07:88 = *07:74, *07:91
++++--	-----+	-----	-----+	--+-----	-----	*07:59, *07:99 = *07:74, *07:94
++++--	-----+	-----	-----+	--+-----	-----	*07:59, *07:90 = *07:74, *07:83



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++++----	-----+	-----	-----	-----+	-----+	*07:59, *07:97 = *07:74, *07:86
++++----	-----+	-----	-----	-----+	-----+	*07:59, *07:87 = *07:74, *07:85
++++----	-----+	-----	-----	-----+	-----	*07:01:01, *07:74 = *07:02:01:01, *07:59 = *07:59, *07:74
++++----	-----+	-----	-----	-----+	+-----	*07:62, *07:91 = *07:78, *07:88
++++----	-----+	-----	-----	-----+	--+	*07:62, *07:94 = *07:78, *07:99
++++----	-----+	-----	-----	-----+	-----+	*07:62, *07:83 = *07:78, *07:90
++++----	-----+	-----	-----	-----+	-----+	*07:62, *07:86 = *07:78, *07:97
++++----	-----+	-----	-----	-----+	-----+	*07:62, *07:85 = *07:78, *07:87
++++----	-----+	-----	-----	-----+	-----	*07:01:01, *07:62 = *07:02:01:01, *07:78 = *07:62, *07:78
++++----	-----+	-----	-----	-----	++-----	*07:88, *07:94 = *07:91, *07:99
++++----	-----+	-----	-----	-----	+-----+	*07:83, *07:88 = *07:90, *07:91
++++----	-----+	-----	-----	-----	+-----+	*07:86, *07:88 = *07:91, *07:97
++++----	-----+	-----	-----	-----	+-----+	*07:85, *07:88 = *07:87, *07:91
++++----	-----+	-----	-----	-----	+-----	*07:01:01, *07:88 = *07:02:01:01, *07:91 = *07:88, *07:91
++++----	-----+	-----	-----	-----	--+	*07:83, *07:99 = *07:90, *07:94
++++----	-----+	-----	-----	-----	--+	*07:86, *07:99 = *07:94, *07:97
++++----	-----+	-----	-----	-----	--+	*07:85, *07:99 = *07:87, *07:94
++++----	-----+	-----	-----	-----	--+	*07:01:01, *07:99 = *07:02:01:01, *07:94 = *07:94, *07:99
++++----	-----+	-----	-----	-----	-----++	*07:83, *07:97 = *07:86, *07:90
++++----	-----+	-----	-----	-----	-----++	*07:83, *07:87 = *07:85, *07:90
++++----	-----+	-----	-----	-----	-----++	*07:01:01, *07:90 = *07:02:01:01, *07:83 = *07:83, *07:90
++++----	-----+	-----	-----	-----	-----++	*07:85, *07:97 = *07:86, *07:87
++++----	-----+	-----	-----	-----	-----+	*07:01:01, *07:97 = *07:02:01:01, *07:86 = *07:86, *07:97
++++----	-----+	-----	-----	-----	-----+	*07:01:01, *07:87 = *07:02:01:01, *07:85 = *07:85, *07:87
++++----	-----+	-----	-----	-----	-----	*07:16, *07:19 = *07:19, *07:26
++++----	-----	-----	-----	-----	-----	*07:01:01, *07:19 = *07:18, *07:19
+++++	-----+	-----	-----	-----	-----	*07:05, *07:53 = *07:05, *07:57
++++	-----+	-----	-----	-----	-----	*07:06, *07:53 = *07:06, *07:57
+++++	-----+	-----	-----	-----	-----	*07:07, *07:53 = *07:07, *07:57
++++	-----+	-----	-----	-----	-----	*07:09, *07:53 = *07:09, *07:57
+++++	-----+	-----	-----	-----	-----	*07:43, *07:53 = *07:43, *07:57
++++	-----+	-----	-----	-----	-----	*07:24, *07:53 = *07:24, *07:57
+++++	-----+	-----	-----	-----	-----	*07:53, *07:60 = *07:57, *07:60
++++	-----+	-----	-----	-----	-----	*07:28, *07:53 = *07:28, *07:57
+++++	-----+	-----	-----	-----	-----	*07:14, *07:53 = *07:14, *07:57
++++	-----+	-----	-----	-----	-----	*07:53, *07:89 = *07:57, *07:89
+++++	-----+	-----	-----	-----	-----	*07:31, *07:53 = *07:31, *07:57
+++++	-----+	-----	-----	-----	-----	*07:27:01, *07:53 = *07:27:01, *07:57
+++++	-----	-----	-----	-----	-----	*07:52, *07:53 = *07:52, *07:57
+++++	-----	-----	-----	-----	-----	*07:53, *07:96 = *07:57, *07:96
+++++	-----	-----	-----	-----	-----	*07:53, *07:92 = *07:57, *07:92
+++++	-----	-----	-----	-----	-----	*07:16, *07:53 = *07:16, *07:57 = *07:26, *07:53 = *07:26, *07:57
+++++	-----	-----	-----	-----	-----	*07:03, *07:35 = *07:03, *07:44 = *07:44, *07:53 = *07:44, *07:57
+++++	-----	-----	-----	-----	-----	*07:01:01, *07:03 = *07:03, *07:53 = *07:03, *07:81 = *07:17, *07:53 = *07:53, *07:81 = *07:57, *07:81
+++++	-----	-----	-----	-----	-----	*07:18, *07:53 = *07:18, *07:57
++++	-----	-----	-----	-----	-----	*07:20, *07:53 = *07:20, *07:57
+++++	-----	-----	-----	-----	-----	*07:21, *07:53 = *07:21, *07:57
+++++	-----	-----	-----	-----	-----	*07:22, *07:53 = *07:22, *07:57
+++++	-----	-----	-----	-----	-----	*07:30, *07:53 = *07:30, *07:57
+++++	-----	-----	-----	-----	-----	*07:53, *07:55N = *07:55N, *07:57
+++++	-----	-----	-----	-----	-----	*07:53, *07:69 = *07:57, *07:69
+++++	-----	-----	-----	-----	-----	*07:35, *07:53 = *07:35, *07:57
+++++	-----	-----	-----	-----	-----	*07:36, *07:53 = *07:36, *07:57
+++++	-----	-----	-----	-----	-----	*07:40, *07:53 = *07:40, *07:57
+++++	-----	-----	-----	-----	-----	*07:53, *07:82 = *07:57, *07:82
+++++	-----	-----	-----	-----	-----	*07:53, *07:70 = *07:57, *07:70
+++++	-----	-----	-----	-----	-----	*07:53, *07:71 = *07:57, *07:71
+++++	-----	-----	-----	-----	-----	*07:53, *07:73 = *07:57, *07:73
++++	-----	-----	-----	-----	-----	*07:53, *07:65 = *07:57, *07:65
+++++	-----	-----	-----	-----	-----	*07:53, *07:58 = *07:57, *07:58
++++	-----	-----	-----	-----	-----	*07:53, *07:59 = *07:57, *07:59
+++++	-----	-----	-----	-----	-----	*07:53, *07:78 = *07:57, *07:78
++++	-----	-----	-----	-----	-----	*07:53, *07:91 = *07:57, *07:91



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+++-----	-----	-----	-----	-----	---+-----	*07:53, *07:77 = *07:57, *07:77
+++-----	-----	-----	-----	-----	---+-----	*07:53, *07:93 = *07:57, *07:93
+++-----	-----	-----	-----	-----	---+-----	*07:53, *07:94 = *07:57, *07:94
+++-----	-----	-----	-----	-----	---+-----	*07:53, *07:98N = *07:57, *07:98N
+++-----	-----	-----	-----	-----	---+-----	*07:53, *07:95 = *07:57, *07:95
+++-----	-----	-----	-----	-----	---+-----	*07:53, *07:83 = *07:57, *07:83
+++-----	-----	-----	-----	-----	---+-----	*07:53, *07:86 = *07:57, *07:86
+++-----	-----	-----	-----	-----	---+-----	*07:53, *07:85 = *07:57, *07:85
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:53 = *07:01:01, *07:57 = *07:01:05, *07:53 = *07:53, *07:53 = *07:53, *07:57
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:05 = *07:01:05, *07:05
+++-----	-----	-----	-----	-----	---+-----	*07:06, *07:27:01 = *07:06, *07:45 = *07:18, *07:45
+++-----	-----	-----	-----	-----	---+-----	*07:06, *07:16 = *07:06, *07:26
+++-----	-----	-----	-----	-----	---+-----	*07:06, *07:17 = *07:06, *07:81
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:06 = *07:01:05, *07:06 = *07:06, *07:06 = *07:06, *07:18
+++-----	-----	-----	-----	-----	---+-----	*07:07, *07:20 = *07:07, *07:96 = *07:09, *07:96
+++-----	-----	-----	-----	-----	---+-----	*07:07, *07:73 = *07:07, *07:92 = *07:09, *07:92
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:07 = *07:01:05, *07:07 = *07:07, *07:09 = *07:07, *07:26 = *07:07, *07:78 = *07:09, *07:16 = *07:09, *07:26
+++-----	-----	-----	-----	-----	---+-----	*07:09, *07:17 = *07:09, *07:81
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:09 = *07:01:05, *07:09 = *07:09, *07:09 = *07:09, *07:78
+++-----	-----	-----	-----	-----	---+-----	*07:14, *07:24 = *07:43, *07:89
+++-----	-----	-----	-----	-----	---+-----	*07:24, *07:31 = *07:43, *07:55N
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:43 = *07:01:05, *07:43 = *07:24, *07:27:01 = *07:24, *07:43
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:24 = *07:24, *07:26
+++-----	-----	-----	-----	-----	---+-----	*07:17, *07:24 = *07:24, *07:81
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:24 = *07:01:05, *07:24 = *07:24, *07:24
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:60 = *07:01:05, *07:60
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:28 = *07:26, *07:28
+++-----	-----	-----	-----	-----	---+-----	*07:17, *07:28 = *07:28, *07:81
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:28 = *07:01:05, *07:28 = *07:28, *07:28
+++-----	-----	-----	-----	-----	---+-----	*07:14, *07:55N = *07:31, *07:89
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:14 = *07:01:05, *07:14 = *07:14, *07:89 = *07:27:01, *07:89
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:89 = *07:26, *07:89
+++-----	-----	-----	-----	-----	---+-----	*07:17, *07:89 = *07:81, *07:89
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:89 = *07:01:05, *07:89 = *07:89, *07:89
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:31 = *07:01:05, *07:31 = *07:27:01, *07:55N = *07:31, *07:55N
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:27:01 = *07:01:05, *07:27:01
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:52 = *07:26, *07:52
+++-----	-----	-----	-----	-----	---+-----	*07:17, *07:52 = *07:52, *07:81
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:52 = *07:01:05, *07:52 = *07:52, *07:52
+++-----	-----	-----	-----	-----	---+-----	*07:17, *07:96 = *07:81, *07:96
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:44 = *07:26, *07:44
+++-----	-----	-----	-----	-----	---+-----	*07:17, *07:92 = *07:81, *07:92
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:81 = *07:17, *07:26 = *07:26, *07:81
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:18 = *07:18, *07:26
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:96 = *07:01:05, *07:96 = *07:16, *07:20 = *07:16, *07:96 = *07:20, *07:26 = *07:20, *07:92 = *07:20, *07:96 = *07:26, *07:96 = *07:73, *07:96 = *07:92, *07:96 = *07:96, *07:96
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:21 = *07:21, *07:26
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:22 = *07:22, *07:26
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:30 = *07:26, *07:30
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:55N = *07:26, *07:55N
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:69 = *07:26, *07:69
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:35 = *07:26, *07:35
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:36 = *07:26, *07:36
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:40 = *07:26, *07:40
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:82 = *07:26, *07:82
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:70 = *07:26, *07:70
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:71 = *07:26, *07:71
+++-----	-----	-----	-----	-----	---+-----	*07:01:01, *07:92 = *07:01:05, *07:92 = *07:16, *07:73 = *07:16, *07:92 = *07:26, *07:73 = *07:26, *07:92 = *07:73, *07:92 = *07:92, *07:92
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:65 = *07:26, *07:65
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:58 = *07:26, *07:58
+++-----	-----	-----	-----	-----	---+-----	*07:16, *07:59 = *07:26, *07:59



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+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:78 = *07:26, *07:78
+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:91 = *07:26, *07:91
+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:77 = *07:26, *07:77
+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:93 = *07:26, *07:93
+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:94 = *07:26, *07:94
+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:98N = *07:26, *07:98N
+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:95 = *07:26, *07:95
+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:83 = *07:26, *07:83
+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:86 = *07:26, *07:86
+++-----	-----	---+-----	-----	-----+-----	-----	*07:16, *07:85 = *07:26, *07:85
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:16 = *07:01:01, *07:26 = *07:01:05, *07:16 = *07:01:05, *07:26 = *07:16, *07:26 = *07:26, *07:26
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:18 = *07:18, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:20 = *07:20, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:21 = *07:21, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:22 = *07:22, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:30 = *07:30, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:55N = *07:55N, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:69 = *07:69, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:44 = *07:01:05, *07:44 = *07:17, *07:35 = *07:17, *07:44 = *07:35, *07:44 = *07:35, *07:81 = *07:44, *07:44 = *07:44, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:36 = *07:36, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:40 = *07:40, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:82 = *07:81, *07:82
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:70 = *07:70, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:71 = *07:71, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:73 = *07:73, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:65 = *07:65, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:58 = *07:58, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:59 = *07:59, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:78 = *07:78, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:91 = *07:81, *07:91
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:77 = *07:77, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:93 = *07:81, *07:93
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:94 = *07:81, *07:94
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:98N = *07:81, *07:98N
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:95 = *07:81, *07:95
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:83 = *07:81, *07:83
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:86 = *07:81, *07:86
+++-----	-----	---+-----	-----	-----+-----	-----	*07:17, *07:85 = *07:81, *07:85
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:17 = *07:01:01, *07:81 = *07:01:05, *07:81 = *07:17, *07:81 = *07:81, *07:81
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:18 = *07:01:05, *07:18 = *07:18, *07:18
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:20 = *07:01:05, *07:20 = *07:20, *07:20 = *07:20, *07:73
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:21 = *07:01:05, *07:21 = *07:21, *07:21
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:22 = *07:01:05, *07:22 = *07:22, *07:22
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:30 = *07:01:05, *07:30 = *07:30, *07:30
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:55N = *07:01:05, *07:55N = *07:55N, *07:55N
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:69 = *07:01:05, *07:69 = *07:69, *07:69
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:35 = *07:01:05, *07:35 = *07:35, *07:35
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:36 = *07:01:05, *07:36 = *07:36, *07:36
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:40 = *07:01:05, *07:40 = *07:40, *07:40
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:82 = *07:01:05, *07:82 = *07:82, *07:82
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:70 = *07:01:05, *07:70 = *07:70, *07:70
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:71 = *07:01:05, *07:71 = *07:71, *07:71
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:73 = *07:01:05, *07:73 = *07:73, *07:73
+++-----	-----	---+-----	-----	-----+-----	-----	*07:58, *07:77 = *07:65, *07:77 = *07:65, *07:93
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:65 = *07:01:05, *07:65 = *07:58, *07:65 = *07:58, *07:98N = *07:65, *07:65 = *07:65, *07:98N
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:58 = *07:01:05, *07:58 = *07:58, *07:58
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:59 = *07:01:05, *07:59 = *07:59, *07:59
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:78 = *07:01:05, *07:78 = *07:78, *07:78
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:91 = *07:01:05, *07:91 = *07:91, *07:91
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:77 = *07:01:05, *07:77 = *07:77, *07:77 = *07:77, *07:93 = *07:77, *07:98N = *07:93, *07:98N
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:93 = *07:01:05, *07:93 = *07:93, *07:93
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:94 = *07:01:05, *07:94 = *07:94, *07:94
+++-----	-----	---+-----	-----	-----+-----	-----	*07:01:01, *07:98N = *07:01:05, *07:98N = *07:98N, *07:98N



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+++-----	-----	-----	-----	-----	-----+---	*07:01:01, *07:95 = *07:01:05, *07:95 = *07:95, *07:95
+++-----	-----	-----	-----	-----	-----+--	*07:01:01, *07:83 = *07:01:05, *07:83 = *07:83, *07:83
+++-----	-----	-----	-----	-----	-----+--	*07:01:01, *07:86 = *07:01:05, *07:86 = *07:86, *07:86
+++-----	-----	-----	-----	-----	-----+--	*07:01:01, *07:85 = *07:01:05, *07:85 = *07:85, *07:85
+++-----	-----	-----	-----	-----	-----	*07:01:01, *07:01:01 = *07:01:01, *07:01:05
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:07, *07:56:01 = *07:07, *07:79
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:29, *07:60 = *07:49, *07:60
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:07, *07:72 = *07:07, *07:80
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:02:01:01, *07:07 = *07:07, *07:29 = *07:07, *07:33N = *07:07, *07:49 = *07:07, *07:51 = *07:07, *07:62 = *07:07, *07:76 = *07:16, *07:76
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:16, *07:29 = *07:16, *07:33N = *07:27:01, *07:33N
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:10, *07:60 = *07:43, *07:79
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:10, *07:14 = *07:43, *07:50
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:10, *07:16 = *07:43, *07:51
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:10, *07:31 = *07:32N, *07:43
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:02:01:01, *07:43 = *07:10, *07:27:01 = *07:10, *07:43
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:14, *07:79 = *07:50, *07:60
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:16, *07:79 = *07:51, *07:60
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:31, *07:79 = *07:32N, *07:60
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:02:01:01, *07:60 = *07:27:01, *07:79 = *07:56:01, *07:60 = *07:60, *07:79
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:14, *07:51 = *07:16, *07:50
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:14, *07:32N = *07:31, *07:50
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:02:01:01, *07:14 = *07:14, *07:50 = *07:27:01, *07:50
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:16, *07:32N = *07:31, *07:51
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:16, *07:72 = *07:16, *07:80 = *07:27:01, *07:80
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:02:01:01, *07:16 = *07:16, *07:51 = *07:27:01, *07:51
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:02:01:01, *07:31 = *07:27:01, *07:32N = *07:31, *07:32N
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:04:01, *07:60 = *07:11, *07:60
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:05, *07:05 = *07:05, *07:27:01
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:07, *07:07 = *07:07, *07:16
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:27:01, *07:43 = *07:43, *07:43
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:14, *07:14 = *07:14, *07:27:01
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:27:01, *07:31 = *07:31, *07:31
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:19, *07:63 = *07:19, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:01:05, *07:54 = *07:02:01:01, *07:19 = *07:19, *07:54
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:01:05, *07:19 = *07:19, *07:19
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:01:05, *07:03 = *07:03, *07:57 = *07:17, *07:57
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:01:05, *07:57 = *07:57, *07:57
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:02:01:01, *07:03 = *07:03, *07:48
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:33N, *07:63 = *07:33N, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:63, *07:76 = *07:68, *07:76
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:49, *07:63 = *07:49, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:29, *07:63 = *07:29, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:10, *07:63 = *07:10, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:12, *07:68 = *07:41, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:63, *07:79 = *07:68, *07:79
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:04:01, *07:79 = *07:11, *07:79
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:11, *07:38 = *07:11, *07:68 = *07:56:01, *07:63 = *07:56:01, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:02:01:01, *07:11 = *07:04:01, *07:56:01 = *07:11, *07:56:01
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:13, *07:63 = *07:13, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:50, *07:63 = *07:50, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:15, *07:63 = *07:15, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:63, *07:80 = *07:68, *07:80
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:51, *07:63 = *07:51, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:17, *07:68 = *07:48, *07:63 = *07:48, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:54, *07:63 = *07:54, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:63, *07:84 = *07:68, *07:84
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:23, *07:63 = *07:23, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:25, *07:63 = *07:25, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:46, *07:63 = *07:46, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:32N, *07:63 = *07:32N, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:37, *07:63 = *07:37, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:47, *07:63 = *07:47, *07:68
++-+-----	+-----+	-+-----	-----+	-----+	-----	*07:42, *07:63 = *07:42, *07:68



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+	+	+	+	+	+	*07:63, *07:75 = *07:68, *07:75
+	+	+	+	+	+	*07:39, *07:63 = *07:39, *07:68
+	+	+	+	+	+	*07:63, *07:66 = *07:66, *07:68
+	+	+	+	+	+	*07:63, *07:67 = *07:67, *07:68
+	+	+	+	+	+	*07:63, *07:72 = *07:68, *07:72
+	+	+	+	+	+	*07:63, *07:64 = *07:64, *07:68
+	+	+	+	+	+	*07:61N, *07:63 = *07:61N, *07:68
+	+	+	+	+	+	*07:63, *07:74 = *07:68, *07:74
+	+	+	+	+	+	*07:62, *07:63 = *07:62, *07:68
+	+	+	+	+	+	*07:63, *07:88 = *07:68, *07:88
+	+	+	+	+	+	*07:63, *07:99 = *07:68, *07:99
+	+	+	+	+	+	*07:63, *07:90 = *07:68, *07:90
+	+	+	+	+	+	*07:63, *07:97 = *07:68, *07:97
+	+	+	+	+	+	*07:63, *07:87 = *07:68, *07:87
+	+	+	+	+	+	*07:02:01:01, *07:63 = *07:02:01:01, *07:68 =
						*07:04:01, *07:38 = *07:04:01, *07:68 = *07:38, *07:63
						= *07:38, *07:68 = *07:63, *07:68 = *07:68, *07:68
+	+	+	+	+	+	*07:56:01, *07:76 = *07:76, *07:79
+	+	+	+	+	+	*07:29, *07:79 = *07:49, *07:56:01 = *07:49, *07:79
+	+	+	+	+	+	*07:17, *07:33N = *07:33N, *07:48
+	+	+	+	+	+	*07:33N, *07:76 = *07:51, *07:76
+	+	+	+	+	+	*07:33N, *07:49 = *07:49, *07:51
+	+	+	+	+	+	*07:29, *07:80 = *07:33N, *07:72 = *07:33N, *07:80
+	+	+	+	+	+	*07:02:01:01, *07:33N = *07:29, *07:33N = *07:29,
						*07:51 = *07:33N, *07:33N = *07:33N, *07:51
+	+	+	+	+	+	*07:17, *07:76 = *07:48, *07:76
+	+	+	+	+	+	*07:17, *07:49 = *07:48, *07:49
+	+	+	+	+	+	*07:17, *07:29 = *07:29, *07:48
+	+	+	+	+	+	*07:02:01:01, *07:76 = *07:29, *07:76 = *07:49, *07:62
						= *07:49, *07:76 = *07:62, *07:76 = *07:76, *07:76
+	+	+	+	+	+	*07:02:01:01, *07:49 = *07:29, *07:49 = *07:49, *07:49
+	+	+	+	+	+	*07:02:01:01, *07:29 = *07:29, *07:29
+	+	+	+	+	+	*07:10, *07:17 = *07:10, *07:48
+	+	+	+	+	+	*07:02:01:01, *07:10 = *07:10, *07:10
+	+	+	+	+	+	*07:17, *07:79 = *07:48, *07:79
+	+	+	+	+	+	*07:17, *07:56:01 = *07:48, *07:56:01
+	+	+	+	+	+	*07:02:01:01, *07:79 = *07:56:01, *07:79 = *07:79,
						*07:79
+	+	+	+	+	+	*07:02:01:01, *07:56:01 = *07:56:01, *07:56:01
+	+	+	+	+	+	*07:13, *07:17 = *07:13, *07:48
+	+	+	+	+	+	*07:02:01:01, *07:13 = *07:13, *07:13
+	+	+	+	+	+	*07:17, *07:50 = *07:48, *07:50
+	+	+	+	+	+	*07:02:01:01, *07:50 = *07:50, *07:50
+	+	+	+	+	+	*07:15, *07:17 = *07:15, *07:48
+	+	+	+	+	+	*07:02:01:01, *07:15 = *07:15, *07:15
+	+	+	+	+	+	*07:17, *07:80 = *07:48, *07:80
+	+	+	+	+	+	*07:17, *07:51 = *07:48, *07:51
+	+	+	+	+	+	*07:02:01:01, *07:80 = *07:51, *07:72 = *07:51, *07:80
						= *07:72, *07:80 = *07:80, *07:80
+	+	+	+	+	+	*07:02:01:01, *07:51 = *07:51, *07:51
+	+	+	+	+	+	*07:17, *07:54 = *07:48, *07:54
+	+	+	+	+	+	*07:17, *07:84 = *07:48, *07:84
+	+	+	+	+	+	*07:17, *07:23 = *07:23, *07:48
+	+	+	+	+	+	*07:17, *07:25 = *07:25, *07:48
+	+	+	+	+	+	*07:17, *07:46 = *07:46, *07:48
+	+	+	+	+	+	*07:17, *07:32N = *07:32N, *07:48
+	+	+	+	+	+	*07:17, *07:37 = *07:37, *07:48
+	+	+	+	+	+	*07:17, *07:47 = *07:47, *07:48
+	+	+	+	+	+	*07:17, *07:42 = *07:42, *07:48
+	+	+	+	+	+	*07:17, *07:75 = *07:48, *07:75
+	+	+	+	+	+	*07:17, *07:39 = *07:39, *07:48
+	+	+	+	+	+	*07:17, *07:66 = *07:48, *07:66
+	+	+	+	+	+	*07:17, *07:67 = *07:48, *07:67
+	+	+	+	+	+	*07:17, *07:72 = *07:48, *07:72
+	+	+	+	+	+	*07:17, *07:64 = *07:48, *07:64
+	+	+	+	+	+	*07:17, *07:38 = *07:38, *07:48
+	+	+	+	+	+	*07:17, *07:61N = *07:48, *07:61N
+	+	+	+	+	+	*07:17, *07:74 = *07:48, *07:74
+	+	+	+	+	+	*07:17, *07:62 = *07:48, *07:62
+	+	+	+	+	+	*07:17, *07:88 = *07:48, *07:88
+	+	+	+	+	+	*07:17, *07:99 = *07:48, *07:99
+	+	+	+	+	+	*07:17, *07:90 = *07:48, *07:90
+	+	+	+	+	+	*07:17, *07:97 = *07:48, *07:97



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+-----+-----+-----+-----+-----+-----+	*07:17, *07:87 = *07:48, *07:87
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:17 = *07:02:01:01, *07:48 = *07:17, *07:48 = *07:48, *07:48
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:54 = *07:54, *07:54
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:84 = *07:84, *07:84
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:23 = *07:23, *07:23
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:25 = *07:25, *07:25
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:46 = *07:46, *07:46
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:32N = *07:32N, *07:32N
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:37 = *07:37, *07:37
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:47 = *07:47, *07:47
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:42 = *07:42, *07:42
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:75 = *07:75, *07:75
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:39 = *07:39, *07:39
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:66 = *07:66, *07:66
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:67 = *07:67, *07:67
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:72 = *07:72, *07:72
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:64 = *07:64, *07:64
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:38 = *07:38, *07:38
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:61N = *07:61N, *07:61N
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:74 = *07:74, *07:74
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:62 = *07:62, *07:62
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:88 = *07:88, *07:88
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:99 = *07:99, *07:99
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:90 = *07:90, *07:90
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:97 = *07:97, *07:97
+-----+-----+-----+-----+-----+-----+	*07:02:01:01, *07:87 = *07:87, *07:87
+-----+-----+-----+-----+-----+-----+	*07:03, *07:03 = *07:03, *07:17
+-----+-----+-----+-----+-----+-----+	*07:11, *07:12 = *07:11, *07:41
+-----+-----+-----+-----+-----+-----+	*07:12, *07:63 = *07:41, *07:63
+-----+-----+-----+-----+-----+-----+	*07:04:01, *07:12 = *07:04:01, *07:41
+-----+-----+-----+-----+-----+-----+	*07:12, *07:12 = *07:12, *07:41
+-----+-----+-----+-----+-----+-----+	*07:04:01, *07:11 = *07:11, *07:11
+-----+-----+-----+-----+-----+-----+	*07:04:01, *07:63 = *07:63, *07:63

- *07:01:01 = *07:01:01-07:01:04 and 07:01:06-07:01:12
- *07:02:01:01 = *07:02:01:01-07:02:14
- *07:04:01 = *07:04:01-07:04:03
- *07:27:01 = *07:27:01-07:27:02
- *07:56:01 = *07:56:01-07:56:02



SPECIFICITY TABLE

HLA-C*07 SSP subtyping

Specificities and sizes of the PCR products of the 48 primer mixes used for HLA-C*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*07 alleles ³	Other amplified HLA-Class I alleles ⁴
1¹⁰	245 bp, 425 bp	800 bp	*07:01:01-07:33N, 07:35-07:99	
2	290 bp	800 bp	*07:01:01-07:01:04, 07:01:06-07:01:12, 07:05-07:07, 07:09, 07:14, 07:16, 07:18, 07:20-07:22, 07:24, 07:26-07:28, 07:30-07:31, 07:35-07:36, 07:40, 07:43-07:44, 07:52-07:53, 07:55N, 07:58-07:60, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96, 07:98N	*03:04:19, 05:17, 12:03:10, B*35:08:04
3⁵	110 bp	800 bp	*07:01:01-07:01:12, 07:06, 07:09, 07:18-07:22, 07:24, 07:26, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:59, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96, 07:98N	
4	185 bp	1070 bp	*07:02:01:01-07:02:14, 07:10, 07:13, 07:15, 07:19, 07:23, 07:25, 07:29, 07:32N-07:33N, 07:37-07:39, 07:42, 07:46-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:62, 07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99	B*40:60
5^{5,11}	70 bp, 145 bp, 245 bp	800 bp	*07:03, 07:53, 07:57	
6⁵	100 bp	1070 bp	*07:04:01-07:04:03, 07:11-07:12, 07:63, 07:68	
7	190 bp	1070 bp	*07:05	B*27:36, B*48:21

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8¹²	285 bp, 505 bp	1070 bp	*07:06, 07:45	*04:40
9^{6,13}	215 bp, 240 bp, 425 bp	800 bp	*07:07, 07:09, 07:29, 07:33N, 07:49, 07:76	*03:04:19, 06:17, 18:01-18:03
10	185 bp	1070 bp	*07:08	*04:58
11¹⁴	275 bp, 305 bp	800 bp	*07:10, 07:24, 07:43	*03:04:19, B*35:08:04, B*37:04:02
12⁵	130 bp	1070 bp	*07:12, 07:41	*05:01:01:01-05:01:13, 05:03-05:08, 05:10-05:16, 05:18-05:22, 05:24-05:42, 08:01:01-08:06, 08:08-08:14, 08:16-08:31, A*29:10
13^{5,7}	90 bp	1070 bp	*07:11, 07:56:01-07:56:02, 07:60, 07:79	*03:69, 04:27, 04:52
14	240 bp	800 bp	*07:13, 07:28	*05:17, B*37:04:02
15^{5,6,15}	80 bp, 290 bp, 460 bp	800 bp	*07:14, 07:50, 07:89	
16	535 bp	1070 bp	*07:02:01:01-07:02:14, 07:04:01-07:05, 07:08, 07:10-07:11, 07:13-07:15, 07:23, 07:25, 07:27:01-07:27:02, 07:29, 07:31-07:33N, 07:37-07:39, 07:42-07:43, 07:45-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99	*03:14, 04:58, 05:23, 08:07, 12:14:01-12:14:02, 14:17, 17:01:01:01-17:06, B*46:06
17^{5,7}	130 bp	1070 bp	*07:04:01-07:04:03, 07:11, 07:63, 07:68	*05:23, 08:07
18^{5,16}	120 bp, 230 bp	800 bp	*07:15, 07:52	*05:03, B*07:77, B*40:60
19¹⁷	220 bp, 355 bp, 465 bp	800 bp	*07:07, 07:16, 07:26, 07:33N, 07:51, 07:80, 07:92, 07:96	
20¹⁸	145 bp, 170 bp, 195 bp	1070 bp	*07:03, 07:17, 07:44, 07:81	*03:04:19, 05:17, 12:03:10, A*30:01:03, B*35:08:04, B*37:04:02
21^{5,19}	100 bp, 225 bp	800 bp	*07:06, 07:18-07:19, 07:54	

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Lot-specific Information

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22 ²⁰	205 bp, 250 bp	800 bp	*07:20, 07:84, 07:96	*03:15, 03:32, 03:45, 03:60, 04:03, 04:06, 04:16, 15:25
23 ²¹	155 bp, 185 bp	1070 bp	*07:21, 07:23	
24 ⁵	130 bp	1070 bp	*07:22, 07:25	*12:03:10
25 ^{5,22}	105 bp, 150 bp	1070 bp	*07:30, 07:46	B*56:08^w, B*56:14
26 ^{5,23}	100 bp, 250 bp, 300 bp	1070 bp	*07:31-07:32N, 07:55N	*12:03:10
27 ⁵	130 bp	1070 bp	*07:37, 07:69	B*35:08:04
28 ²⁴	175 bp, 260 bp	800 bp	*07:35, 07:44, 07:47	
29	255 bp	1070 bp	*07:36, 07:42	
30 ⁵	60 bp	1070 bp	*07:75	
31 ⁸	415 bp	1070 bp	*07:39-07:40	
32 ²⁵	245 bp, 285 bp	1070 bp	*07:07, 07:09, 07:49, 07:60, 07:76, 07:79	*02:14, 03:39, 03:67, 04:42, 06:02:01:01- 06:02:01:02, 06:02:03-06:02:05, 06:04-06:10, 06:12- 06:37, 15:23, 18:01- 18:03, B*08:06, B*08:17, B*08:39, B*08:47
33 ²⁶	205 bp, 230 bp	1070 bp	*07:66, 07:82	
34 ^{5,27}	105 bp, 270 bp	800 bp	*07:67, 07:70	
35 ^{6,28}	320 bp, 360 bp	800 bp	*07:71-07:72, 07:80	
36 ⁶	265 bp	1070 bp	*07:20, 07:64, 07:73, 07:92, 07:96	
37	265 bp	1070 bp	*07:38, 07:63, 07:68	B*07:77, B*40:60
38 ^{9,29}	135 bp, 195 bp, 405 bp	1070 bp	*07:58, 07:61N, 07:65	
39 ^{5,30}	100 bp, 255 bp	800 bp	*07:59, 07:74	
40 ³¹	205 bp, 440 bp	1070 bp	*07:07, 07:09, 07:62, 07:76, 07:78	*06:17, 18:01-18:03
41 ³²	140 bp, 255 bp	1070 bp	*07:88, 07:91	
42	205 bp	1070 bp	*07:77, 07:93	
43 ^{5,33}	105 bp, 140 bp	1070 bp	*07:94, 07:99	
44 ^{6,34}	165 bp, 195 bp	1070 bp	*07:65, 07:77, 07:98N	
45	475 bp	1070 bp	*07:95	*04:34, B*73:01
46 ³⁵	200 bp, 350 bp	1070 bp	*07:83, 07:90	
47 ³⁶	200 bp, 455 bp	1070 bp	*07:86, 07:97	
48 ³⁷	220 bp, 400 bp	1070 bp	*07:85, 07:87	

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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 HLA-C*07 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 shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-C*07 subtyping.

In addition, wells number 2, 3, 5, 9, 11, 14, 15, 18, 19, 21, 22, 28, 34, 35 and 39 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.

³ For several HLA-C*07 alleles 1st, 5th, 6th and 7th 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 1st, 5th, 6th and 7th exons are conserved within allelic groups.

⁴ Due to the sharing of sequence motifs between HLA-C alleles non-HLA-C*07 alleles will be amplified by primer mixes 2, 8 to 14, 16 to 18, 20, 22, 24, 26, 32, 40 and 45. In addition, the A*29:10 allele will be amplified by primer mix 12, the A*30:01:03 allele by primer mix 20, the B*07:77 allele will be amplified by primer mixes 18 and 37, the B*08:06, B*08:17, B*08:39 and B*08:47 alleles by primer mix 32, the B*27:36 and B*48:21 alleles by primer mix 7, the B*35:08:04 allele by primer mixes 2, 11, 20 and 27, the B*37:04:02 allele by primer mixes 11, 14 and 20, the B*40:60 allele by primer mixes 4, 18 and 37, the B*46:06 allele by primer mix 16, the B*56:08 and B*56:14 alleles by primer mix 25 and the B*73:01 allele will be amplified by primer mix 45.

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

⁶ Primer mixes 9, 15, 35, 36 and 44 have a tendency of primer oligomer formation.

⁷ Primer mixes 13 and 17 have a tendency of giving rise to nonspecific amplifications.

⁸ Primer mix 31 may give a lower yield of specific PCR product than the other C*07 primer mixes.

⁹ Primer mix 38 may generate a false band of about 900 base pairs. This band should be disregarded when interpreting HLA-C*07 SSP typings.

¹⁰ Primer mix 1: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49 and 07:76 alleles. Specific PCR fragment of 425 bp in the C*07:41 allele. Specific PCR fragment of 245 and 425 bp in the C*07:01:01-07:06, 07:08, 07:10-07:33N, *07:35-07:40, 07:42-07:48, 07:50-07:75 and 07:77-07:99 alleles.

¹¹ Primer mix 5: Specific PCR fragment of 70 bp in the C*07:53 allele. Specific PCR fragment of 145 bp in the C*07:57 allele. Specific PCR fragment of 245 bp in the C*07:03 allele.

¹² Primer mix 8: Specific PCR fragment of 285 bp in the C*07:45 and the C*04:40 alleles. Specific PCR fragment of 505 bp in the C*07:06 allele.

¹³ Primer mix 9: Specific PCR fragment of 215 bp in the C*07:33N allele. Specific PCR fragment of 240 bp in the C*07:29 and the C*03:04:19 alleles. Specific PCR fragment of 425 bp in the C*07:07, 07:09, 07:49 and 07:76 and the C*06:17 and 18:01-18:03 alleles.

¹⁴ Primer mix 11: Specific PCR fragment of 275 bp in the C*07:24 allele. Specific PCR fragment of 305 bp in the C*07:10 and 07:43 and the C*03:04:19 and in the B*35:08:04 and B*37:04:02 alleles.

¹⁵ Primer mix 15: Specific PCR fragment of 80 bp in the C* 07:50 allele. Specific PCR fragment of 290 bp in the C*07:14 allele. Specific PCR fragment of 460 bp in the C*07:89 allele.

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¹⁶Primer mix 18: Specific PCR fragment of 120 bp in the C*07:52 and the C*05:03 alleles. Specific PCR fragment of 230 bp in the C*07:15 and in the B*07:77 and B*40:60 alleles.

¹⁷Primer mix 19: Specific PCR fragment of 220 bp in the C*07:26, 07:33N, 07:92 and 07:96 alleles. Specific PCR fragment of 355 bp in the C*07:80 allele. Specific PCR fragment of 465 bp in the C*07:07, 07:16 and 07:51 alleles.

¹⁸Primer mix 20: Specific PCR fragment of 145 bp in the C*07:03 and 07:17 and the C*03:04:19, 05:17 and 12:03:10 and in the A*30:01:03 alleles. Specific PCR fragment of 170 bp in the 07:44 allele. Specific PCR fragment of 195 bp in the C*07:81 allele. Specific PCR fragment of 145 bp and 195 bp in the B*35:08:04 and B*37:04:02 alleles.

¹⁹Primer mix 21: Specific PCR fragment of 100 bp in the C*07:54 allele. Specific PCR fragment of 225 bp in the C*07:06, 07:18 and 07:19 alleles.

²⁰Primer mix 22: Specific PCR fragment of 205 bp in the C*07:84 allele. Specific PCR fragment of 250 bp in the C*07:20 and 07:96 and the C*03:15, 03:32, 03:45, 03:60, 04:03, 04:06, 04:16 and 15:25 alleles.

²¹Primer mix 23: Specific PCR fragment of 155 bp in the C*07:23 allele. Specific PCR fragment of 185 bp in the C*07:21 allele.

²²Primer mix 25: Specific PCR fragment of 105 bp in the C*07:46 and B*56:06^w and B*56:14 alleles. Specific PCR fragment of 150 bp in the C*07:30 allele.

²³Primer mix 26: Specific PCR fragment of 100 bp in the C*07:32N allele. Specific PCR fragment of 250 bp in the C*07:55N allele. Specific PCR fragment of 300 bp in the C*07:31 and the C*12:03:10 alleles.

²⁴Primer mix 28: Specific PCR fragment of 175 bp in the C*07:44 allele. Specific PCR fragment of 260 bp in the C*07:35 and 07:47 alleles.

²⁵Primer mix 32: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49 and 07:76 and the C*02:14, 04:42, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:04-06:10, 06:12-06:37, 15:23 and 18:01-18:03 and in the B*08:17 and B*08:47 alleles. Specific PCR fragment of 285 bp in the C*07:60 and 07:79 and the C*03:39 and 03:67 and the B*08:39 alleles.

²⁶Primer mix 33: Specific PCR fragment of 205 bp in the C*07:66 allele. Specific PCR fragment of 230 bp in the C*07:82 allele.

²⁷Primer mix 34: Specific PCR fragment of 105 bp in the C*07:67 allele. Specific PCR fragment of 270 bp in the C*07:70 allele.

²⁸Primer mix 35: Specific PCR fragment of 320 bp in the C*07:72 allele. Specific PCR fragment of 360 bp in the C*07:71 and 07:80 alleles.

²⁹Primer mix 38: Specific PCR fragment of 135 bp in the C*07:58 allele. Specific PCR fragment of 195 bp in the C*07:65 allele. Specific PCR fragment of 405 bp in the C*07:61N allele.

³⁰Primer mix 39: Specific PCR fragment of 100 bp in the C*07:74 allele. Specific PCR fragment of 255 bp in the C*07:59 allele.

³¹Primer mix 40: Specific PCR fragment of 205 bp in the C*07:62 allele. Specific PCR fragment of 440 bp in the C*07:07, 07:09, 07:76 and 07:78 and the C*06:17 and 18:01-18:03 alleles.

³²Primer mix 41: Specific PCR fragment of 140 bp in the C*07:91 allele. Specific PCR fragment of 255 bp in the C*07:88 allele.

³³Primer mix 43: Specific PCR fragment of 105 bp in the C*07:94 allele. Specific PCR fragment of 140 bp in the C*07:99 allele.

³⁴Primer mix 44: Specific PCR fragment of 165 bp in the C*07:98N allele. Specific PCR fragment of 195 bp in the C*07:65 and 07:77 alleles.

³⁵Primer mix 46: Specific PCR fragment of 200 bp in the C*07:83 allele. Specific PCR fragment of 350 bp in the C*07:90 allele.

³⁶Primer mix 47: Specific PCR fragment of 200 bp in the C*07:86 allele. Specific PCR fragment of 455 bp in the C*07:97 allele.

³⁷Primer mix 48: Specific PCR fragment of 220 bp in the C*07:87 allele. Specific PCR fragment of 400 bp in the C*07:85 allele.

'w', may be weakly amplified.

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Lot-specific Information

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Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130
PCR product(s)	425				145			505	240		305				290			230	355	170	225	250	185	
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
*07:01:01-07:01:04, 07:01:06-07:01:12	1	2	3																					
*07:01:05	1		3																					
*07:02:01:01-07:02:14, *07:48 ⁶	1			4												16								
*07:03	1				5															20				
*07:04:01-07:04:03	1					6										16	17							
*07:05	1	2					7									16								
*07:06	1	2	3					8													21			
*07:07	1	2							9										19					
*07:08	1									10						16								
*07:09	1	2	3						9															
*07:10	1			4							11					16								
*07:11	1					6							13			16	17							
*07:12	1					6						12												
*07:13	1			4										14		16								
*07:14	1	2													15	16								
*07:15	1			4												16			18					
*07:16	1	2																	19					
*07:17	1																			20				
*07:18	1	2	3																		21			
*07:19	1		3	4																	21			
*07:20	1	2	3																			22		
*07:21	1	2	3																				23	
*07:22	1	2	3																					24
*07:23	1			4												16							23	
*07:24	1	2	3								11													
*07:25	1			4												16								24
*07:26	1	2	3																19					
*07:27:01-07:27:02	1	2														16								
*07:28	1	2	3											14										
*07:29	1			4					9							16								
*07:30	1	2	3																					
*07:31	1	2														16								
*07:32N	1			4												16								
*07:33N	1			4					9							16			19					
*07:35	1	2	3																					
*07:36	1	2	3																					
*07:37	1			4												16								
*07:38	1			4												16								
*07:39	1			4												16								
*07:40	1	2	3																					
*07:41	1											12												
*07:42	1			4												16								
*07:43	1	2									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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150	105	100	100	130	175	255	60	415	245	205	105	320	265	265	135	100	205	140	205	165	475	200	200	220	Length of spec.	
		300			260				285	230	270	360			405	255	440	255		140	195		350	455	400	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.		
																									*07:01:01-07:01:04, 07:01:06-07:01:12	
																									*07:01:05	
																									*07:02:01:01-07:02:14, *07:48 ⁶	
																									*07:03	
																									*07:04:01-07:04:03	
																									*07:05	
																									*07:06	
							32								40										*07:07	
							32								40										*07:08	
							32								40										*07:09	
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											36														*07:20	
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																									*07:26	
																									*07:27:01-07:27:02	
																									*07:28	
																									*07:29	
25																									*07:30	
	26																								*07:31	
	26																								*07:32N	
																									*07:33N	
			28																						*07:35	
				29																					*07:36	
		27																							*07:37	
													37												*07:38	
																									*07:39	
							31																		*07:40	
							31																		*07:41	
				29																					*07:42	
																									*07:43	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		



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Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	
PCR product(s)	425				245	145		505	425	240	305				460	290			230	355	170	225	250	185	
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	
*07:44	1	2	3																	20					
*07:45	1							8								16									
*07:46	1			4												16									
*07:47	1			4												16									
*07:49	1			4					9							16									
*07:50	1			4											15	16									
*07:51	1			4												16			19						
*07:52	1	2	3															18							
*07:53	1	2	3		5																				
*07:54	1			4												16					21				
*07:55N	1	2	3																						
*07:56:01-07:56:02	1			4									13			16									
*07:57	1		3		5																				
*07:58	1	2	3																						
*07:59	1	2	3																						
*07:60	1	2											13												
*07:61N	1			4												16									
*07:62	1			4												16									
*07:63	1					6										16	17								
*07:64	1			4												16									
*07:65	1	2	3																						
*07:66	1			4												16									
*07:67	1			4												16									
*07:68	1			4		6										16	17								
*07:69	1	2	3																						
*07:70	1	2	3																						
*07:71	1	2	3																						
*07:72	1			4												16									
*07:73	1	2	3																						
*07:74	1			4												16									
*07:75	1			4												16									
*07:76	1			4					9							16									
*07:77	1	2	3																						
*07:78	1	2	3																						
*07:79	1			4									13			16									
*07:80	1			4												16			19						
*07:81	1	2	3																	20					
*07:82	1	2	3																						
*07:83	1	2	3																						
*07:84	1			4												16						22			
*07:85	1	2	3																						
*07:86	1	2	3																						
*07:87	1			4												16									
*07:88	1			4												16									
*07:89	1	2	3												15										
*07:90	1			4												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	



Lot No.: **62M**

Lot-specific Information

www.olerup-ssp.com

150	105	100	130	175	255	60	415	245	205	105	320	265	265	135	100	205	140	205	105	165	475	200	200	220	Length of spec. PCR product(s)
		300		260				285	230	270	360			195	255	440	255		140	195		350	455	400	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	
			28																						*07:44
																									*07:45
25																									*07:46
			28																						*07:47
							32																		*07:49
																									*07:50
																									*07:51
																									*07:52
																									*07:53
																									*07:54
	26																								*07:55N
																									*07:56:01-07:56:02
														38											*07:57
															39										*07:58
																									*07:59
							32																		*07:60
														38											*07:61N
															40										*07:62
													37												*07:63
												36													*07:64
														38					44						*07:65
							33																		*07:66
								34																	*07:67
												37													*07:68
		27																							*07:69
																									*07:70
																									*07:71
																									*07:72
																									*07:73
																									*07:74
						30																			*07:75
							32																		*07:76
																				42		44			*07:77
																									*07:78
							32									40									*07:79
																									*07:80
																									*07:81
																									*07:82
																							46		*07:83
																									*07:84
																								48	*07:85
																							47		*07:86
																								48	*07:87
																									*07:88
																41									*07:89
																									*07:90
																							46		*07:90
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.: **62M**

Lot-specific Information

www.olerup-ssp.com

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130						
PCR product(s)	425				245	145		505	425	240	215				460	290		230	355	220	195	170	145	225	250	185	155	130		
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						
*07:91	1	2	3																											
*07:92	1	2	3																19											
*07:93	1	2	3																											
*07:94	1	2	3																											
*07:95	1	2	3																											
*07:96	1	2	3																19				22							
*07:97	1			4												16														
*07:98N	1	2	3																											
*07:99	1			4												16														
*02:14, 03:39, 03:67, 04:42, 06:02:01:01- 06:02:01:02, 06:02:03- 06:02:05, 06:04-06:10, 06:12-06:16N, 06:18- 06:37, 15:23, B*08:06, B*08:17, B*08:39, B*08:47																														
*03:04:19		2							9		11										20									
*03:14, 12:14:01- 12:14:02, 14:17, 17:01:01:01-17:06, B*46:06																16														
*03:15, 03:32, 03:45, 03:60, 04:03, 04:06, 04:16, 15:25																							22							
*03:69, 04:27, 04:52													13																	
*04:34, B*73:01																														
*04:40								8																						
*04:58									10							16														
*05:01:01:01-05:01:13, 05:04-05:08, 05:10-05:16, 05:18-05:22, 05:24-05:42, 08:01:01-08:06, 08:08- 08:14, 08:16-08:31, A*29:10												12																		
*05:03												12							18											
*05:17		2												14							20									
*05:23, 08:07																16	17													
*06:17, 18:01-18:03									9																					
*12:03:10		2																			20							24		
A*30:01:03																					20									
B*07:77																		18												
B*27:36, B*48:21							7																							
B*35:08:04		2									11										20									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24						

Lot No.: **62M**

Lot-specific Information

www.olerup-ssp.com

150	105	100	130	175	255	60	415	245	205	105	320	265	265	135	100	205	140	205	165	475	200	200	220	Length of spec.	
		300		260				285	230	270	360			405	255	440	255		140	195		350	455	400	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.	
																41									*07:91
											36						42								*07:92
																		43							*07:93
																				45					*07:94
											36														*07:95
																							47		*07:96
																									*07:97
																			44						*07:98N
																		43							*07:99
							32																		*02:14, 03:39, 03:67, 04:42, 06:02:01:01- 06:02:01:02, 06:02:03- 06:02:05, 06:04-06:10, 06:12-06:16N, 06:18- 06:37, 15:23, B*08:06, B*08:17, B*08:39, B*08:47
																									*03:04:19
																									*03:14, 12:14:01- 12:14:02, 14:17, 17:01:01:01-17:06, B*46:06
																									*03:15, 03:32, 03:45, 03:60, 04:03, 04:06, 04:16, 15:25
																					45				*03:69, 04:27, 04:52 *04:34, B*73:01
																									*04:40
																									*04:58
																									*05:01:01:01-05:01:13, 05:04-05:08, 05:10-05:16, 05:18-05:22, 05:24-05:42, 08:01:01-08:06, 08:08- 08:14, 08:16-08:31, A*29:10
																									*05:03
																									*05:17
																									*05:23, 08:07
	26						32								40										*06:17, 18:01-18:03
																									*12:03:10
																									A*30:01:03
												37													B*07:77
																									B*27:36, B*48:21
		27																							B*35:08:04
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130			
PCR product(s)	425				245			505	425	240		305			460	290			230	355	220	170	145	225	250	185	155
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			
B*37:04:02											11			14						20							
B*40:60				4														18									
B*56:08																											
B*56:14																											
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			

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 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-C*07 subtyping.

In addition, wells number 2, 3, 5, 9, 11, 14, 15, 18, 19, 21, 22, 28, 34, 35 and 39 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.

²The nucleotide position, in the 1st, 2nd, 3rd or 7th exon or the 3rd or 6th intron, matching the specificity-determining 3'-end 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.

³The nucleotide position, in the 2nd, 3rd, 4th or 7th exon, 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.

⁴The HLA-Cw*0734 allele has been renamed to HLA-C*07:27:02.

⁵Primer mix 1: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49 and 07:76 alleles. Specific PCR fragment of 425 bp in the C*07:41 allele. Specific PCR fragment of 245 and 425 bp in the C*07:01:01-07:06, 07:08, 07:10-07:33N, *07:35-07:40, 07:42-07:48, 07:50-07:75 and 07:77-07:99 alleles.

Primer mix 5: Specific PCR fragment of 70 bp in the C*07:53 allele. Specific PCR fragment of 145 bp in the C*07:57 allele. Specific PCR fragment of 245 bp in the C*07:03 allele.

Primer mix 8: Specific PCR fragment of 285 bp in the C*07:45 and the C*04:40 alleles. Specific PCR fragment of 505 bp in the C*07:06 allele.

Primer mix 9: Specific PCR fragment of 215 bp in the C*07:33N allele. Specific PCR fragment of 240 bp in the C*07:29 and the C*03:04:19 alleles. Specific PCR fragment of 425 bp in the C*07:07, 07:09, 07:49 and 07:76 and the C*06:17 and 18:01-18:03 alleles.

Primer mix 11: Specific PCR fragment of 275 bp in the C*07:24 allele. Specific PCR fragment of 305 bp in the C*07:10 and 07:43 and the C*03:04:19 and in the B*35:08:04 and B*37:04:02 alleles.

Primer mix 15: Specific PCR fragment of 80 bp in the C* 07:50 allele. Specific PCR fragment of 290 bp in the C*07:14 allele. Specific PCR fragment of 460 bp in the C*07:89 allele.

Primer mix 18: Specific PCR fragment of 120 bp in the C*07:52 and the C*05:03 alleles. Specific PCR fragment of 230 bp in the C*07:15 and in the B*07:77 and B*40:60 alleles.

Primer mix 19: Specific PCR fragment of 220 bp in the C*07:26, 07:33N, 07:92 and 07:96 alleles. Specific PCR fragment of 355 bp in the C*07:80 allele. Specific PCR fragment of 465 bp in the C*07:07, 07:16 and 07:51 alleles.

Primer mix 20: Specific PCR fragment of 145 bp in the C*07:03 and 07:17 and the C*03:04:19, 05:17 and 12:03:10 and in the A*30:01:03 alleles. Specific PCR fragment of 170 bp in the 07:44 allele. Specific PCR fragment of 195 bp in the C*07:81 allele. Specific PCR fragment of 145 bp and 195 bp in the B*35:08:04 and B*37:04:02 alleles.

Primer mix 21: Specific PCR fragment of 100 bp in the C*07:54 allele. Specific PCR fragment of 225 bp in the C*07:06, 07:18 and 07:19 alleles.

Lot No.: **62M**

Lot-specific Information

www.olerup-ssp.com

																		Length of spec.								
																		PCR product(s)								
150	105	100	130	175	255	60	415	245	205	105	320	265	265	135	100	205	140	105	165	475	200	200	220			
	300			260				285	230	270	360			195	255	440	255		140	195		350	455	400		
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.		
													37													<i>B*37:04:02</i>
																										<i>B*40:60</i>
w																										<i>B*56:08</i>
25																										<i>B*56:14</i>
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.		

Primer mix 22: Specific PCR fragment of 205 bp in the C*07:84 allele. Specific PCR fragment of 250 bp in the C*07:20 and 07:96 and the C*03:15, 03:32, 03:45, 03:60, 04:03, 04:06, 04:16 and 15:25 alleles.

Primer mix 23: Specific PCR fragment of 155 bp in the C*07:23 allele. Specific PCR fragment of 185 bp in the C*07:21 allele.

Primer mix 25: Specific PCR fragment of 105 bp in the C*07:46 and B*56:06^w and B*56:14 alleles. Specific PCR fragment of 150 bp in the C*07:30 allele.

Primer mix 26: Specific PCR fragment of 100 bp in the C*07:32N allele. Specific PCR fragment of 250 bp in the C*07:55N allele. Specific PCR fragment of 300 bp in the C*07:31 and the C*12:03:10 alleles.

Primer mix 28: Specific PCR fragment of 175 bp in the C*07:44 allele. Specific PCR fragment of 260 bp in the C*07:35 and 07:47 alleles.

Primer mix 32: Specific PCR fragment of 245 bp in the C*07:07, 07:09, 07:49 and 07:76 and the C*02:14, 04:42, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:04-06:10, 06:12-06:37, 15:23 and 18:01-18:03 and in the B*08:17 and B*08:47 alleles. Specific PCR fragment of 285 bp in the C*07:60 and 07:79 and the C*03:39 and 03:67 and the B*08:39 alleles.

Primer mix 33: Specific PCR fragment of 205 bp in the C*07:66 allele. Specific PCR fragment of 230 bp in the C*07:82 allele.

Primer mix 34: Specific PCR fragment of 105 bp in the C*07:67 allele. Specific PCR fragment of 270 bp in the C*07:70 allele.

Primer mix 35: Specific PCR fragment of 320 bp in the C*07:72 allele. Specific PCR fragment of 360 bp in the C*07:71 and 07:80 alleles.

Primer mix 38: Specific PCR fragment of 135 bp in the C*07:58 allele. Specific PCR fragment of 195 bp in the C*07:65 allele. Specific PCR fragment of 405 bp in the C*07:61N allele.

Primer mix 39: Specific PCR fragment of 100 bp in the C*07:74 allele. Specific PCR fragment of 255 bp in the C*07:59 allele.

Primer mix 40: Specific PCR fragment of 205 bp in the C*07:62 allele. Specific PCR fragment of 440 bp in the C*07:07, 07:09, 07:76 and 07:78 and the C*06:17 and 18:01-18:03 alleles.

Primer mix 41: Specific PCR fragment of 140 bp in the C*07:91 allele. Specific PCR fragment of 255 bp in the C*07:88 allele.

Primer mix 43: Specific PCR fragment of 105 bp in the C*07:94 allele. Specific PCR fragment of 140 bp in the C*07:99 allele.

Primer mix 44: Specific PCR fragment of 165 bp in the C*07:98N allele. Specific PCR fragment of 195 bp in the C*07:65 and 07:77 alleles.

Primer mix 46: Specific PCR fragment of 200 bp in the C*07:83 allele. Specific PCR fragment of 350 bp in the C*07:90 allele.

Primer mix 47: Specific PCR fragment of 200 bp in the C*07:86 allele. Specific PCR fragment of 455 bp in the C*07:97 allele.

Primer mix 48: Specific PCR fragment of 220 bp in the C*07:87 allele. Specific PCR fragment of 400 bp in the C*07:85 allele.

⁶The HLA-C*07 subtyping kit cannot distinguish the C*07:02:01:01-07:02:14 and C*07:48 alleles.

‘w’, may be weakly amplified.

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201069801	201189502	201189503	201069804	201069805	201069806	201069807	201069808	201069809	201069810	201069811	201069812	201069813	201069814	201069815	201189516
	IHWC cell line		C*																	
1	9001 SA		*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
2	9280 LK707		*07:01	*15:05	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*03:04	*07:02	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL		*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
8	9025 DEU		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM		*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*03:03	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*01:02	*07:05	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	+
19	9038 BM16		*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*08:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
26	9285 WT49		*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*07:04	*15:05	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
28	9320 BEL5GB		*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
29	9050 MOU		*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019 DUCAF		*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
32	9297 HAG		*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
33	9098 MT14B		*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
36	9024 KT17		*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
38	9099 LZL		*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*02:02	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199		*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301		*08:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
42	9066 TAB089		*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
44	9057 TEM		*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU		*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
47	9045 TUBO		*07:04	*15:02	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
48	9303 TER-ND		*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																					
HLA-C*07 SSP subtyping kit																					
				Prod. No.:	Well																
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
	IHWC cell line	C*			201069817	201069818	201069819	201069820	201069821	201069822	201184123	201189524	201069825	201069826	201069827	201189528	201189529	201189530	201069831	201069832	
1	9001 SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
6	9353 SM	*03:04	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
13	9004 JESTHOM	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
41	9055 H0301	*08:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201189533	201189534	201069835	201069836	201069837	201069838	201069839	201069840	201069841	201069842	201189543	201069844	201069845	201189546	201189547	201069848
IHWC cell line		C*																		
1	9001 SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01 *15:05			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
3	9011 E4181324	*12:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04 *04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04 *07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02 *03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03 *07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02 *07:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02 *15:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04 *15:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01 *16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01 *17:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03 *04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02 *07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02 *06:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02 *08:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02 *17:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04 *15:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01 *16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-C*07 SSP

Product number: 101.615-24/04 – including *Taq* pol.
Lot number: 62M
Expiry date: 2014-March-01
Number of tests: 24 tests – Product No. 101.615-24
4 tests – Product No. 101.615-04
Number of wells per test: 48

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-698-01	17	2010-698-17	33	2011-895-33
2	2011-895-02	18	2010-698-18	34	2011-895-34
3	2011-895-03	19	2010-698-19	35	2010-698-35
4	2010-698-04	20	2010-698-20	36	2010-698-36
5	2010-698-05	21	2010-698-21	37	2010-698-37
6	2010-698-06	22	2010-698-22	38	2010-698-38
7	2010-698-07	23	2011-841-23	39	2010-698-39
8	2010-698-08	24	2011-895-24	40	2010-698-40
9	2010-698-09	25	2010-698-25	41	2010-698-41
10	2010-698-10	26	2010-698-26	42	2010-698-42
11	2010-698-11	27	2010-698-27	43	2011-895-43
12	2010-698-12	28	2011-895-28	44	2010-698-44
13	2010-698-13	29	2011-895-29	45	2010-698-45
14	2010-698-14	30	2011-895-30	46	2011-895-46
15	2010-698-15	31	2010-698-31	47	2011-895-47
16	2011-895-16	32	2010-698-32	48	2010-698-48

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

No DNAs carrying the alleles to be amplified by primer solutions 5, 10, 11, 13 to 15, 18 to 20, 23 to 31, 34 to 39, 41 to 44 and 46 to 48 were available. The specificities of the primers in primer solutions 5, 10, 11, 13 to 15, 18 to 20, 24 to 27, 31, 35 to 38, 44 and 46 to 48 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solution 43 it was only possible to test the 5'-primer, the 3'-primer were not possible to test. In primer solutions 23, 28 to 30, 34, 39, 41 and 42 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 8, 11, 20, 22, 24, 26, 33, 37, 38, 44 and 46 to 48 one or two 5'-primers were not possible to test, and in primer solutions 5, 9, 13, 15, 18, 19, 21, 25, 32, 35, 38, 40 and 46 to 48 one or two 3'-primers were not possible to test. Additional primers in primer solutions 2, 8, 9, 21 and 33 were tested by separately adding either one 5'-primer or one 3'-primer.

Lot No.: **62M**

Lot-specific Information

www.olerup-ssp.com

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

Date of approval: 2011-October-11

Approved by:

Quality Control, Supervisor

Lot No.: **62M**

Lot-specific Information

www.olerup-ssp.com

Declaration of Conformity

Product name: *Olerup* SSP® HLA-C*07
Product number: 101.615-24/04
Lot number: 62M

Intended use: HLA-C*07 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 III, 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.

Stockholm, Sweden
2011-October-11

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

Lot No.: **62M**

Lot-specific Information

www.olerup-ssp.com

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