

## Olerup SSP<sup>®</sup> DPB1

Product number:	101.311-24u/04u – without <i>Taq</i> pol.
Lot number:	32K
Expiry date:	2012-September-01
Number of tests:	24 tests – Product No. 101.311-24u 4 tests – Product No. 101.311-04u
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. 32K.**

### CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup> DPB1 LOT

The DPB1 specificity and interpretation tables have been updated for the DPB1 alleles described since the previous Olerup SSP<sup>®</sup> DPB1 lot was made (**Lot No. 47G**).

The primers of the wells detailed below have been added, exchanged or modified.

Well	5'-primer	3'-primer	rationale
11	-	Added	Primer added for the DPB1*119:01 allele.
14	Added	-	Primer added for the DPB1*54:01 allele.
16	Added	-	Primer added for the DPB1*99:01 allele.
26	Added	-	Primers added for the DPB1*101:01 and 123:01 alleles.
46	Added	Added	Primer pair added for the DPB1*69:01 allele.
48	-	Added	Primer added for the DPB1*76:01, 92:01 and 110:01 alleles.

Change in revision R01 compared to R00:

1. The primer set contains 5'- and 3'-primers for identifying the DPB1\*01:01 to DPB1\*125:01 alleles, but not the DPB1\*126:01 allele as erroneously stated in one footnote.

## PRODUCT DESCRIPTION

### DPB1 SSP typing

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the DPB1\*01:01 to DPB1\*125:01 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 ‘DPB1’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘32K’.

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

Only DPB1 alleles will be amplified by the DPB1 typing kit. Thus, the interpretation of DPB1 typings is not influenced by the DPB2 gene or other HLA class II genes.

#### UNIQUELY IDENTIFIED ALLELES

All the phenotypically different DPB1 alleles, i.e. **DPB1\*01:01 to DPB1\*125:01**, recognized by the HLA Nomenclature Committee in April 2010<sup>1</sup> will give rise to unique amplification patterns by the primers in the DPB1 typing kit.

The DPB1 typing kit cannot distinguish the DPB1\*01:01:01 to DPB1\*01:01:03 alleles, the DPB1\*02:01:02, DPB1\*02:01:04, DPB1\*02:01:05 and DPB1\*02:01:07 alleles, the DPB1\*03:01:01 and DPB1\*03:01:02 alleles, the DPB1\*04:01:01 and DPB1\*04:01:02 alleles, the DPB1\*05:01:01 and DPB1\*05:01:02 alleles, the DPB1\*11:01:01 and DPB1\*11:01:02 alleles, the DPB1\*20:01:01 and DPB1\*20:01:02 alleles or the DPB1\*41:01:01 and DPB1\*41:01:02 alleles.

<sup>1</sup>DPB1 alleles listed on the IMGT/HLA web page 2010-April-01, release 3.0.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**RESOLUTION IN HOMO- AND HETEROZYGOTES**

The 123 DPB1 alleles generate 125 patterns, that can be combined in 7875 homozygous and heterozygous combinations. 1828 of these genotypes do not give rise to unique amplification patterns. (The different lengths of the specific PCR products in lanes 14, 16, 24 to 26, 28, 32, 33, 37 and 40 to 48 were not considered in these calculations.)

+++++++ +---+--- +---+--- +---+--- +---+--- +---+---	19:01,26:01:01 = 26:01:01,106:01 = 26:01:02,106:01
+++++++ ++-+--- -+---+--- -+---+--- -+---+--- -+---+---	19:01,118:01 = 106:01,118:01
+++++++ +---+--- +---+--- +---+--- +---+--- +---+---	04:02,118:01 = 105:01,118:01
+++++++ +---+--- +---+--- +---+--- +---+--- +---+---	01:01,38:01 = 05:01,118:01 = 38:01,118:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	08:01,26:01:01 = 08:01,26:01:02
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,99:01 = 99:01,122:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	26:01:01,75:01 = 26:01:02,75:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	51:01,118:01 = 120:01N,122:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,51:01 = 04:01,122:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,120:01N = 04:01,118:01 = 118:01,120:01N
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	61:01N,65:01 = 65:01,92:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	03:01,65:01 = 65:01,104:01 = 65:01,124:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	26:01:01,68:01 = 26:01:02,68:01 = 65:01,79:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,49:01 = 39:01,122:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,68:01 = 65:01,122:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,53:01 = 40:01,122:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	26:01:01,65:01 = 26:01:01,84:01 = 26:01:02,65:01 = 26:01:02,84:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	65:01,118:01 = 84:01,118:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,65:01 = 01:01,84:01 = 65:01,90:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,64:01N = 06:01,118:01 = 64:01N,118:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	26:01:01,73:01 = 26:01:02,73:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	61:01N,118:01 = 92:01,118:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,111:01 = 03:01,118:01 = 104:01,118:01 = 111:01,118:01 = 118:01,124:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,61:01N = 01:01,92:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	26:01:01,57:01 = 26:01:02,57:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	26:01:01,50:01 = 26:01:02,50:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	13:01,122:01 = 107:01,122:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,79:01 = 26:01:01,122:01 = 26:01:02,122:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,122:01 = 89:01,122:01 = 90:01,122:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	13:01,118:01 = 107:01,118:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	13:01,90:01 = 90:01,107:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	26:01:01,118:01 = 26:01:02,118:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	26:01:01,90:01 = 26:01:02,90:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,118:01 = 89:01,118:01 = 90:01,118:01 = 118:01,118:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	01:01,89:01 = 01:01,90:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	19:01,56:01 = 56:01,106:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	19:01,90:01 = 90:01,106:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	04:02,90:01 = 90:01,105:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	61:01N,90:01 = 90:01,92:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	03:01,90:01 = 90:01,104:01 = 90:01,124:01
+++++++ -+---+--- +---+--- +---+--- +---+--- +---+---	89:01,90:01 = 90:01,90:01



Lot No.: **32K**

Lot-specific Information

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+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,46:01 = 26:01:02,46:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,123:01 = 26:01:02,123:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,32:01 = 26:01:02,32:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,115:01 = 26:01:02,115:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	02:01,26:01:01 = 02:01,26:01:02
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,47:01 = 26:01:02,47:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,71:01 = 26:01:02,71:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,48:01 = 26:01:02,48:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,101:01 = 26:01:02,101:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	02:02,26:01:01 = 02:02,26:01:02
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	22:01,26:01:01 = 22:01,26:01:02
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,103:01 = 26:01:02,103:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,80:01 = 26:01:02,80:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,77:01 = 26:01:02,77:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,82:01 = 26:01:02,82:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,60:01 = 26:01:02,60:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,105:01 = 26:01:02,105:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,94:01 = 26:01:02,94:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	23:01,26:01:01 = 23:01,26:01:02
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,100:01 = 26:01:02,100:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,97:01 = 26:01:02,97:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,38:01 = 26:01:02,38:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,116:01 = 26:01:02,116:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,112:01 = 26:01:02,112:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,63:01 = 26:01:02,63:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,62:01 = 26:01:02,62:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,81:01 = 26:01:02,81:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,33:01 = 26:01:02,33:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	24:01,26:01:01 = 24:01,26:01:02
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,99:01 = 26:01:02,99:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,51:01 = 26:01:02,51:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,120:01N = 26:01:02,120:01N
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,121:01 = 26:01:02,121:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	04:01,26:01:01 = 04:01,26:01:02
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,49:01 = 26:01:02,49:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,53:01 = 26:01:02,53:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,96:01 = 26:01:02,96:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,39:01 = 26:01:02,39:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,40:01 = 26:01:02,40:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,41:01 = 26:01:02,41:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,95:01 = 26:01:02,95:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,86:01 = 26:01:02,86:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,113:01 = 26:01:02,113:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,109:01 = 26:01:02,109:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,108:01 = 26:01:02,108:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,83:01 = 26:01:02,83:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,64:01N = 26:01:02,64:01N
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	17:01,26:01:01 = 17:01,26:01:02
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,93:01 = 26:01:02,93:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,36:01 = 26:01:02,36:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	21:01,26:01:01 = 21:01,26:01:02
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,30:01 = 26:01:02,30:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,91:01 = 26:01:02,91:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,98:01 = 26:01:02,98:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,69:01 = 26:01:02,69:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,87:01 = 26:01:02,87:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,34:01 = 26:01:02,34:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,58:01 = 26:01:02,58:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,55:01 = 26:01:02,55:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,119:01 = 26:01:02,119:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,72:01 = 26:01:02,72:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,66:01 = 26:01:02,66:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,44:01 = 26:01:02,44:01
+++---++	+++-----	+---+-----	-++++---+	-----++	---+---++	26:01:01,29:01 = 26:01:02,29:01



Lot No.: 32K

Lot-specific Information

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+++--+	----+	+---+	-----	-----	-----	26:01:01,37:01 = 26:01:02,37:01
+++++	-----	+++++	-----	-----	-----	26:01:01,114:01 = 26:01:02,114:01
+++++	-----	+++++	-----	-----	-----	26:01:01,54:01 = 26:01:02,54:01
+++++	-----	+++++	-----	-----	-----	26:01:01,70:01 = 26:01:02,70:01
+++++	-----	+++++	-----	-----	-----	26:01:01,76:01 = 26:01:02,76:01
+++++	-----	+++++	-----	-----	-----	26:01:01,78:01 = 26:01:02,78:01
+++++	-----	+++++	-----	-----	-----	13:01,92:01 = 92:01,107:01
+++++	-----	+++++	-----	-----	-----	26:01:01,111:01 = 26:01:02,111:01
+++++	-----	+++++	-----	-----	-----	26:01:01,61:01N = 26:01:01,92:01 =
						26:01:02,61:01N = 26:01:02,92:01
+++++	-----	+++++	-----	-----	-----	03:01,26:01:01 = 26:01:01,104:01 =
						26:01:01,124:01 = 26:01:02,124:01
+++++	-----	+++++	-----	-----	-----	03:01,26:01:02 = 26:01:02,104:01
+++++	-----	+++++	-----	-----	-----	26:01:01,35:01:01 =
						26:01:02,35:01:01
+++++	-----	+++++	-----	-----	-----	25:01,26:01:01 = 25:01,26:01:02
+++++	-----	+++++	-----	-----	-----	26:01:01,28:01 = 26:01:02,28:01
+++++	-----	+++++	-----	-----	-----	26:01:01,79:01 = 26:01:02,79:01
+++++	-----	+++++	-----	-----	-----	13:01,56:01 = 56:01,107:01
+++++	-----	+++++	-----	-----	-----	26:01:01,67:01 = 26:01:02,67:01
+++++	-----	+++++	-----	-----	-----	26:01:01,74:01 = 26:01:02,74:01
+++++	-----	+++++	-----	-----	-----	26:01:01,52:01 = 26:01:02,52:01
+++++	-----	+++++	-----	-----	-----	26:01:01,56:01 = 26:01:02,56:01
+++++	-----	+++++	-----	-----	-----	26:01:01,117:01 = 26:01:02,117:01
+++++	-----	+++++	-----	-----	-----	26:01:01,31:01 = 26:01:02,31:01
+++++	-----	+++++	-----	-----	-----	26:01:01,102:01 = 26:01:02,102:01
+++++	-----	+++++	-----	-----	-----	26:01:01,110:01 = 26:01:02,110:01
+++++	-----	+++++	-----	-----	-----	13:01,27:01 = 13:01,89:01 =
						27:01,107:01 = 89:01,107:01
+++++	-----	+++++	-----	-----	-----	13:01,26:01:01 = 26:01:01,107:01
+++++	-----	+++++	-----	-----	-----	13:01,85:01 = 85:01,107:01
+++++	-----	+++++	-----	-----	-----	13:01,26:01:02 = 26:01:02,107:01
+++++	-----	+++++	-----	-----	-----	26:01:01,125:01 = 26:01:02,125:01
+++++	-----	+++++	-----	-----	-----	26:01:01,27:01 = 26:01:01,89:01 =
						26:01:02,27:01 = 26:01:02,89:01
+++++	-----	+++++	-----	-----	-----	26:01:01,26:01:01 =
						26:01:01,26:01:02
+++++	-----	+++++	-----	-----	-----	04:02,56:01 = 56:01,105:01
+++++	-----	+++++	-----	-----	-----	03:01,125:01 = 27:01,92:01 =
						35:01:02,56:01 = 61:01N,125:01 =
						85:01,92:01 = 92:01,125:01 =
						104:01,125:01 = 124:01,125:01
+++++	-----	+++++	-----	-----	-----	14:01,56:01 = 56:01,76:01
+++++	-----	+++++	-----	-----	-----	11:01,92:01 = 56:01,78:01
+++++	-----	+++++	-----	-----	-----	03:01,56:01 = 56:01,61:01N =
						56:01,92:01 = 56:01,104:01 =
						56:01,124:01 = 89:01,92:01
+++++	-----	+++++	-----	-----	-----	25:01,125:01 = 56:01,79:01
+++++	-----	+++++	-----	-----	-----	27:01,56:01 = 56:01,85:01 =
						56:01,125:01
+++++	-----	+++++	-----	-----	-----	56:01,56:01 = 56:01,89:01
+++++	-----	+++++	-----	-----	-----	27:01,110:01 = 85:01,110:01 =
						89:01,110:01
+++++	-----	+++++	-----	-----	-----	03:01,99:01 = 99:01,104:01 =
						99:01,124:01
+++++	-----	+++++	-----	-----	-----	03:01,120:01N = 04:01,111:01 =
						104:01,120:01N = 111:01,120:01N =
						120:01N,124:01
+++++	-----	+++++	-----	-----	-----	03:01,121:01 = 104:01,121:01 =
						121:01,124:01
+++++	-----	+++++	-----	-----	-----	04:01,52:01 = 52:01,121:01
+++++	-----	+++++	-----	-----	-----	03:01,96:01 = 96:01,104:01 =
						96:01,124:01
+++++	-----	+++++	-----	-----	-----	03:01,39:01 = 39:01,104:01 =
						39:01,124:01



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+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,40:01 = 40:01,104:01 = 40:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,66:01 = 61:01N,66:01 = 66:01,104:01 = 66:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,72:01 = 72:01,104:01 = 72:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	27:01,88:01 = 88:01,89:01
+++++-----	-----+	+++++---	-----	-----+	-----+	27:01,37:01 = 37:01,89:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,31:01 = 31:01,104:01 = 31:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,102:01 = 102:01,104:01 = 102:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	27:01,61:01N = 61:01N,85:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,27:01 = 27:01,104:01 = 27:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,85:01 = 85:01,104:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,89:01 = 89:01,104:01 = 89:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	27:01,79:01 = 79:01,89:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,50:01 = 50:01,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,36:01 = 36:01,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,20:01 = 20:01,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,18:01 = 18:01,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,87:01 = 87:01,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,114:01 = 107:01,114:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,78:01 = 78:01,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,111:01 = 107:01,111:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,61:01N = 61:01N,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,124:01 = 107:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,25:01 = 25:01,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,79:01 = 79:01,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	13:01,52:01 = 52:01,107:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,110:01 = 61:01N,110:01 = 104:01,110:01 = 110:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,33:01 = 33:01,104:01 = 33:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,117:01 = 104:01,117:01 = 117:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,11:01 = 11:01,104:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,74:01 = 74:01,104:01 = 74:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	19:01,122:01 = 106:01,122:01
+++++-----	-----+	+++++---	-----	-----+	-----+	77:01,122:01 = 94:01,122:01
+++++-----	-----+	+++++---	-----	-----+	-----+	04:02,122:01 = 105:01,122:01
+++++-----	-----+	+++++---	-----	-----+	-----+	68:01,122:01 = 84:01,122:01
+++++-----	-----+	+++++---	-----	-----+	-----+	61:01N,122:01 = 92:01,122:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,122:01 = 104:01,122:01 = 122:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	19:01,92:01 = 92:01,106:01
+++++-----	-----+	+++++---	-----	-----+	-----+	68:01,92:01 = 84:01,92:01
+++++-----	-----+	+++++---	-----	-----+	-----+	77:01,92:01 = 92:01,94:01
+++++-----	-----+	+++++---	-----	-----+	-----+	04:02,92:01 = 92:01,105:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,76:01 = 14:01,92:01 = 61:01N,76:01 = 76:01,92:01 = 76:01,104:01 = 76:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,92:01 = 61:01N,92:01 = 92:01,92:01 = 92:01,104:01 = 92:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,24:01 = 24:01,104:01 = 24:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,51:01 = 51:01,104:01 = 51:01,124:01
+++++-----	-----+	+++++---	-----	-----+	-----+	03:01,49:01 = 49:01,104:01 = 49:01,124:01



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+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,53:01 = 53:01,104:01 = 53:01,124:01
++-+----- +-----+ +++++--- +-----+ +-----+ +-----+	03:01,28:01 = 28:01,104:01 = 28:01,124:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,114:01 = 106:01,114:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	19:01,78:01 = 78:01,106:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	19:01,111:01 = 106:01,111:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	19:01,61:01N = 61:01N,106:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	19:01,124:01 = 106:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,19:01 = 19:01,104:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,25:01 = 25:01,106:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	19:01,79:01 = 79:01,106:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,50:01 = 50:01,106:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,52:01 = 52:01,106:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	50:01,77:01 = 50:01,94:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,50:01 = 50:01,105:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,08:01 = 08:01,104:01 = 08:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,75:01 = 75:01,104:01 = 75:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	68:01,78:01 = 78:01,84:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	68:01,111:01 = 84:01,111:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	61:01N,68:01 = 61:01N,84:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,68:01 = 03:01,84:01 = 68:01,104:01 = 68:01,124:01 = 84:01,104:01 = 84:01,124:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	25:01,68:01 = 25:01,84:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,79:01 = 79:01,84:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	50:01,68:01 = 50:01,84:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,73:01 = 73:01,104:01 = 73:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,57:01 = 57:01,104:01 = 57:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,50:01 = 50:01,104:01 = 50:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,46:01 = 46:01,104:01 = 46:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,123:01 = 104:01,123:01 = 123:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,32:01 = 32:01,104:01 = 32:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,115:01 = 104:01,115:01 = 115:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,47:01 = 47:01,104:01 = 47:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,71:01 = 71:01,104:01 = 71:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,48:01 = 48:01,104:01 = 48:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,16:01 = 16:01,104:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,101:01 = 101:01,104:01 = 101:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,22:01 = 22:01,104:01 = 22:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,103:01 = 103:01,104:01 = 103:01,124:01
+++-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,114:01 = 105:01,114:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	03:01,80:01 = 80:01,104:01 = 80:01,124:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	77:01,78:01 = 78:01,94:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,78:01 = 78:01,105:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	77:01,111:01 = 94:01,111:01
+++-----+ +-----+ +++++--- +-----+ +-----+ +-----+	61:01N,77:01 = 61:01N,94:01



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++-----+ +-----+ +++++--- ----- +-----+ +-----+	03:01,77:01 = 03:01,94:01 = 77:01,104:01 = 77:01,124:01 = 94:01,104:01 = 94:01,124:01
++-----+ +-----+ +++++--- ----- +-----+ +-----+	03:01,82:01 = 82:01,104:01 = 82:01,124:01
++-----+ +-----+ +++++--- ----- +-----+ +-----+	04:02,111:01 = 105:01,111:01
++-----+ +-----+ +++++--- ----- +-----+ +-----+	03:01,60:01 = 60:01,104:01 = 60:01,124:01
++-----+ +-----+ +++++--- ----- +-----+ +-----+	04:02,61:01N = 61:01N,105:01
++-----+ +-----+ +++++--- ----- +-----+ +-----+	03:01,23:01 = 23:01,104:01 = 23:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	04:02,52:01 = 23:01,25:01 = 52:01,105:01
++-----+ +-----+ +-----+----- +-----+ +-----+	25:01,77:01 = 25:01,94:01
++-----+ +-----+ +-----+----- +-----+ +-----+	04:02,25:01 = 25:01,105:01
++-----+ +-----+ +-----+----- +-----+ +-----+	77:01,79:01 = 79:01,94:01
++-----+ +-----+ +-----+----- +-----+ +-----+	04:02,79:01 = 79:01,105:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,100:01 = 100:01,104:01 = 100:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,97:01 = 97:01,104:01 = 97:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,38:01 = 05:01,111:01 = 38:01,104:01 = 38:01,111:01 = 38:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,05:01 = 05:01,104:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,112:01 = 104:01,112:01 = 112:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,116:01 = 104:01,116:01 = 116:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	25:01,112:01 = 52:01,116:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,63:01 = 63:01,104:01 = 63:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,62:01 = 62:01,104:01 = 62:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,81:01 = 81:01,104:01 = 81:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,41:01 = 41:01,104:01 = 41:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,95:01 = 95:01,104:01 = 95:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,86:01 = 86:01,104:01 = 86:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,113:01 = 104:01,113:01 = 113:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,109:01 = 104:01,109:01 = 109:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,108:01 = 104:01,108:01 = 108:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,59:01 = 59:01,104:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,83:01 = 83:01,104:01 = 83:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	29:01,36:01 = 36:01,44:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,17:01 = 17:01,104:01 = 17:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,64:01N = 06:01,111:01 = 64:01N,104:01 = 64:01N,111:01 = 64:01N,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,06:01 = 06:01,104:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,93:01 = 93:01,104:01 = 93:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	37:01,87:01 = 52:01,93:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,36:01 = 36:01,104:01 = 36:01,124:01
++-----+ +-----+ +-----+----- +-----+ +-----+	03:01,21:01 = 21:01,104:01 = 21:01,124:01





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++----- +-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,30:01 = 30:01,104:01 = 30:01,124:01
++----- +-----+ +-----+ +-----+ -++-----+ -++-----+	55:01,114:01 = 58:01,114:01
++----- +-----+ +-----+ +-----+ -++-----+ -++-----+	21:01,114:01 = 36:01,114:01
++----- +-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,34:01 = 34:01,104:01 = 34:01,124:01
++----- +-----+ ++++++--- +-----+ -++-----+ -++-----+	03:01,58:01 = 58:01,104:01 = 58:01,124:01
++----- +-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,98:01 = 98:01,104:01 = 98:01,124:01
++----- +-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,91:01 = 91:01,104:01 = 91:01,124:01
++----- +-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,69:01 = 69:01,104:01 = 69:01,124:01
++----- +-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,20:01 = 20:01,104:01
++----- +-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,55:01 = 55:01,104:01 = 55:01,124:01
++----- +-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,87:01 = 87:01,104:01 = 87:01,124:01
++----- +-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,18:01 = 18:01,104:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	25:01,119:01 = 79:01,119:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,119:01 = 104:01,119:01 = 119:01,124:01
++----- -++-----+ ++++++--- +-----+ -++-----+ -++-----+	29:01,114:01 = 44:01,114:01
++----- -++-----+ ++++++--- +-----+ -++-----+ -++-----+	03:01,44:01 = 44:01,104:01 = 44:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	25:01,88:01 = 29:01,79:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,88:01 = 88:01,104:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,29:01 = 29:01,104:01 = 29:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,10:01 = 10:01,104:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,37:01 = 37:01,104:01 = 37:01,124:01
++----- -++-----+ ++++++--- +-----+ -++-----+ -++-----+	03:01,114:01 = 70:01,114:01 = 104:01,114:01 = 114:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,54:01 = 54:01,104:01 = 54:01,124:01
++----- -++-----+ ++++++--- +-----+ -++-----+ -++-----+	03:01,70:01 = 70:01,104:01 = 70:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,35:01:01 = 35:01:01,104:01 = 35:01:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,79:01 = 25:01,35:01:02 = 79:01,104:01 = 79:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,35:01:02 = 35:01:02,104:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,67:01 = 67:01,104:01 = 67:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,45:01 = 45:01,104:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,52:01 = 52:01,104:01 = 52:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,25:01 = 25:01,104:01 = 25:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,78:01 = 78:01,78:01 = 78:01,104:01 = 78:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,111:01 = 104:01,111:01 = 111:01,111:01 = 111:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,61:01N = 61:01N,61:01N = 61:01N,104:01 = 61:01N,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,124:01 = 104:01,124:01 = 124:01,124:01
++----- -++-----+ ++++++--- -++-----+ -++-----+ -++-----+	03:01,104:01 = 104:01,104:01
++----- -++-----+ +-----+ -++-----+ -++-----+ -++-----+	25:01,67:01 = 45:01,52:01
+-----+ -++-----+ +-----+ -++-----+ -++-----+ -++-----+	13:01,65:01 = 65:01,107:01
+-----+ -++-----+ +-----+ -++-----+ -++-----+ -++-----+	13:01,24:01 = 24:01,107:01
+-----+ -++-----+ +-----+ -++-----+ -++-----+ -++-----+	13:01,99:01 = 99:01,107:01
+-----+ -++-----+ +-----+ -++-----+ -++-----+ -++-----+	13:01,51:01 = 51:01,107:01



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+--+++	-----	+---+--	-----	+-----	-----	13:01,120:01N = 107:01,120:01N
+--+++	-----	+---+--	-----	+-----	-----	13:01,121:01 = 107:01,121:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,49:01 = 49:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,53:01 = 53:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,96:01 = 96:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,39:01 = 39:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,40:01 = 40:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,72:01 = 72:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,66:01 = 66:01,107:01
+--+++	-----	+++++	-----	+-----	-----	13:01,76:01 = 76:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,28:01 = 28:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,31:01 = 31:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,102:01 = 102:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,125:01 = 107:01,125:01
+--+++	-----	+---+--	-----	+-----	-----	08:01,13:01 = 08:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,75:01 = 75:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,68:01 = 68:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,84:01 = 84:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,73:01 = 73:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,57:01 = 57:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	19:01,110:01 = 106:01,110:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,46:01 = 46:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,123:01 = 107:01,123:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,32:01 = 32:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,115:01 = 107:01,115:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,47:01 = 47:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,71:01 = 71:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,48:01 = 48:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,16:01 = 16:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,101:01 = 101:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,22:01 = 22:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,103:01 = 103:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,80:01 = 80:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,77:01 = 77:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,82:01 = 82:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,60:01 = 60:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,94:01 = 94:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,23:01 = 23:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,100:01 = 100:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,97:01 = 97:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,38:01 = 38:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,116:01 = 107:01,116:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,112:01 = 107:01,112:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,63:01 = 63:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,62:01 = 62:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,81:01 = 81:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,33:01 = 33:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,41:01 = 41:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,95:01 = 95:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,86:01 = 86:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,113:01 = 107:01,113:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,109:01 = 107:01,109:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,108:01 = 107:01,108:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,59:01 = 59:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,83:01 = 83:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,64:01N = 64:01N,107:01
+--+++	-----	+---+--	-----	+-----	-----	06:01,13:01 = 06:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,17:01 = 17:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,93:01 = 93:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,21:01 = 21:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,30:01 = 30:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,91:01 = 91:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,98:01 = 98:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,69:01 = 69:01,107:01
+--+++	-----	+---+--	-----	+-----	-----	13:01,34:01 = 34:01,107:01





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--+-----+ +-----+ +++-----+ -+-----+ -+-----+ --+-----+	20:01,68:01 = 20:01,84:01
--+-----+ +-----+ -+-----+ -+-----+ -+-----+ --+-----+	18:01,68:01 = 18:01,84:01
-+-----+ +-----+ +-----+ +-----+ -+-----+ --+-----+	04:02,36:01 = 36:01,105:01
-+-----+ +-----+ +-----+ -+-----+ -+-----+ +-----+	20:01,77:01 = 20:01,94:01
-+-----+ +-----+ +-----+ -+-----+ -+-----+ +-----+	04:02,87:01 = 87:01,105:01
-+-----+ +-----+ +-----+ -+-----+ -+-----+ +-----+	18:01,77:01 = 18:01,94:01
-+-----+ +-----+ +-----+ +-----+ -+-----+ --+-----+	36:01,55:01 = 36:01,58:01
-+-----+ +-----+ +-----+ +-----+ -+-----+ --+-----+	21:01,36:01 = 36:01,36:01
--+++++ +-----+ -+-----+ -+-----+ -+-----+ --+-----+	19:01,65:01 = 65:01,106:01
--+++++ +-----+ -+-----+ -+-----+ -+-----+ --+-----+	60:01,65:01 = 65:01,83:01
--+++++ +-----+ -+-----+ -+-----+ -+-----+ --+-----+	04:02,65:01 = 65:01,105:01
--+++++ +-----+ -+-----+ -+-----+ -+-----+ --+-----+	65:01,65:01 = 65:01,84:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,125:01 = 106:01,125:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,99:01 = 99:01,106:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,66:01 = 66:01,106:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,72:01 = 72:01,106:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,120:01N = 106:01,120:01N
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,121:01 = 106:01,121:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,96:01 = 96:01,106:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,39:01 = 39:01,106:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,40:01 = 40:01,106:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,31:01 = 31:01,106:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	19:01,102:01 = 102:01,106:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	68:01,99:01 = 84:01,99:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,73:01 = 72:01,75:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:02,125:01 = 105:01,125:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	14:01,125:01 = 76:01,125:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	02:01,99:01 = 48:01,99:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,46:01 = 39:01,46:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	02:01,96:01 = 39:01,41:01 =
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	41:01,96:01 = 96:01,115:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,115:01 = 39:01,115:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,95:01 = 95:01,121:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,103:01 = 103:01,121:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,71:01 = 71:01,121:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,64:01N = 06:01,120:01N =
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	64:01N,120:01N
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,86:01 = 39:01,86:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,38:01 = 05:01,120:01N =
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	38:01,120:01N
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	99:01,112:01 = 116:01,121:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,116:01 = 99:01,116:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	77:01,99:01 = 94:01,99:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	60:01,99:01 = 83:01,99:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:02,99:01 = 99:01,105:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,112:01 = 112:01,121:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,108:01 = 39:01,108:01 =
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	72:01,80:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,80:01 = 39:01,80:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:02,66:01 = 66:01,105:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	60:01,121:01 = 83:01,121:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,59:01 = 04:02,72:01 =
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	72:01,105:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	60:01,120:01N = 83:01,120:01N
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:02,120:01N = 105:01,120:01N
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:02,96:01 = 39:01,60:01 =
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	39:01,83:01 = 60:01,96:01 =
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	83:01,96:01 = 96:01,105:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,60:01 = 04:01,83:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:02,31:01 = 31:01,77:01 =
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	31:01,105:01 = 77:01,102:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:02,102:01 = 102:01,105:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	40:01,60:01 = 40:01,83:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:02,40:01 = 40:01,105:01
--+++++ +-----+ +-----+ -+-----+ -+-----+ --+-----+	04:01,58:01 = 58:01,121:01



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--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,55:01 = 55:01,121:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,63:01 = 63:01,121:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,34:01 = 34:01,121:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,62:01 = 62:01,121:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,23:01 = 23:01,121:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	31:01,94:01 = 94:01,102:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	39:01,69:01 = 69:01,96:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	40:01,99:01 = 53:01,99:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	39:01,99:01 = 49:01,99:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,99:01 = 51:01,99:01 = 99:01,99:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,28:01 = 53:01,72:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,53:01 = 40:01,51:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,49:01 = 39:01,51:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,67:01 = 67:01,121:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,120:01N = 120:01N,120:01N
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:01,121:01 = 121:01,121:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	39:01,53:01 = 40:01,49:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	39:01,96:01 = 96:01,96:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	31:01,34:01 = 34:01,102:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	14:01,66:01 = 66:01,119:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	31:01,31:01 = 31:01,102:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,33:01 = 33:01,106:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,74:01 = 74:01,106:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,117:01 = 106:01,117:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	02:01,117:01 = 115:01,117:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	33:01,60:01 = 33:01,83:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,33:01 = 33:01,105:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	23:01,33:01 = 33:01,71:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,74:01 = 74:01,105:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,117:01 = 105:01,117:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,76:01 = 76:01,106:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,76:01 = 76:01,84:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,51:01 = 51:01,106:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,24:01 = 24:01,106:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,49:01 = 49:01,106:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,28:01 = 28:01,106:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,53:01 = 53:01,106:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	51:01,68:01 = 51:01,84:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	28:01,75:01 = 53:01,73:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	49:01,68:01 = 49:01,84:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	28:01,68:01 = 28:01,84:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	53:01,68:01 = 53:01,84:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	76:01,77:01 = 76:01,94:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,76:01 = 76:01,105:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	35:01:01,76:01 = 35:01:02,76:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	14:01,76:01 = 76:01,76:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	46:01,49:01 = 46:01,51:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	02:01,49:01 = 49:01,115:01 = 51:01,115:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	49:01,86:01 = 51:01,86:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	24:01,60:01 = 24:01,83:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,24:01 = 24:01,105:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	49:01,108:01 = 51:01,108:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	49:01,80:01 = 51:01,80:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	49:01,77:01 = 49:01,94:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	51:01,77:01 = 51:01,94:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	49:01,60:01 = 49:01,83:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,49:01 = 49:01,105:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	51:01,60:01 = 51:01,83:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,51:01 = 51:01,105:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	28:01,80:01 = 53:01,108:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	28:01,77:01 = 28:01,94:01
--+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,28:01 = 28:01,105:01 = 53:01,59:01



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---+---+ +---+---+ -----	-----	---+---+ +-+---+--	53:01,77:01 = 53:01,94:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	53:01,60:01 = 53:01,83:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	04:02,53:01 = 53:01,105:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,86:01 = 86:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,81:01 = 81:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,46:01 = 46:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,123:01 = 106:01,123:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,113:01 = 106:01,113:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,109:01 = 106:01,109:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,32:01 = 32:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,115:01 = 106:01,115:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,41:01 = 41:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,59:01 = 16:01,73:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,82:01 = 32:01,68:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,60:01 = 08:01,83:01 = 41:01,68:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	02:01,68:01 = 04:02,08:01 = 08:01,105:01 = 16:01,75:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,46:01 = 46:01,84:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,123:01 = 84:01,123:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,23:01 = 08:01,71:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,32:01 = 32:01,84:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,115:01 = 84:01,115:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,41:01 = 41:01,84:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	02:01,08:01 = 02:01,84:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,119:01 = 106:01,119:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,108:01 = 106:01,108:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,80:01 = 80:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,73:01 = 59:01,106:01 = 73:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,77:01 = 77:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,82:01 = 82:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,60:01 = 19:01,83:01 = 60:01,106:01 = 83:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,75:01 = 47:01,68:01 = 75:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,71:01 = 71:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,94:01 = 94:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,47:01 = 47:01,84:01 = 47:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,23:01 = 23:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	68:01,71:01 = 75:01,103:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,48:01 = 48:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,64:01N = 64:01N,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	17:01,19:01 = 17:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,93:01 = 93:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,19:01 = 08:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,48:01 = 48:01,84:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	08:01,16:01 = 16:01,84:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,100:01 = 100:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,101:01 = 84:01,101:01 = 101:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,54:01 = 54:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,21:01 = 21:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,30:01 = 30:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,97:01 = 97:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,38:01 = 38:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,22:01 = 22:01,84:01 = 22:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,116:01 = 106:01,116:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,112:01 = 106:01,112:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,95:01 = 95:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,70:01 = 70:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,91:01 = 91:01,106:01
---+---+ +---+---+ -----	-----	---+---+ ---+---+--	19:01,35:01:01 = 35:01:01,106:01



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-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,98:01 = 98:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,57:01 = 57:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,68:01 = 68:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,69:01 = 69:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,67:01 = 67:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,58:01 = 58:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,55:01 = 55:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,63:01 = 63:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,34:01 = 34:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,62:01 = 62:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,103:01 = 103:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	19:01,84:01 = 84:01,106:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	57:01,77:01 = 57:01,94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,57:01 = 57:01,105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,108:01 = 84:01,108:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,80:01 = 80:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	59:01,68:01 = 59:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,77:01 = 68:01,94:01 = 77:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,82:01 = 82:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	60:01,68:01 = 60:01,84:01 = 68:01,83:01 = 83:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,68:01 = 04:02,84:01 = 68:01,105:01 = 84:01,105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	73:01,80:01 = 75:01,108:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	73:01,77:01 = 73:01,94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,73:01 = 59:01,75:01 = 73:01,105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	75:01,77:01 = 75:01,94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	60:01,75:01 = 75:01,83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,75:01 = 75:01,105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,116:01 = 84:01,116:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,91:01 = 84:01,91:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,98:01 = 84:01,98:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	08:01,81:01 = 81:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	08:01,08:01 = 08:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,119:01 = 84:01,119:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,73:01 = 73:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,75:01 = 75:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,70:01 = 70:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	14:01,68:01 = 14:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	35:01:01,68:01 = 35:01:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	35:01:02,68:01 = 35:01:02,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	45:01,68:01 = 45:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	57:01,68:01 = 57:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	68:01,68:01 = 68:01,84:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	02:01,97:01 = 05:01,32:01 = 32:01,97:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	48:01,60:01 = 48:01,83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,48:01 = 48:01,105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	23:01,48:01 = 48:01,71:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	60:01,81:01 = 81:01,83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,81:01 = 81:01,105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	16:01,60:01 = 16:01,83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	46:01,59:01 = 46:01,108:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	46:01,60:01 = 46:01,83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	04:02,46:01 = 46:01,80:01 = 46:01,105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	60:01,123:01 = 83:01,123:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	02:01,108:01 = 108:01,115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	02:01,80:01 = 80:01,115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	32:01,60:01 = 32:01,83:01 = 41:01,82:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	02:01,82:01 = 04:02,32:01 = 32:01,82:01 = 32:01,105:01



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-----+ ++++-----	-----	-----	-----	-----	-----	60:01,115:01 = 83:01,115:01
-----+ ++++-----	-----	-----	-----	-----	-----	04:02,115:01 = 105:01,115:01
-----+ ++++-----	-----	-----	-----	-----	-----	02:01,60:01 = 02:01,83:01 =
						04:02,41:01 = 41:01,60:01 =
						41:01,105:01
-----+ ++++-----	+++-----	---+-----	---+-----	---+-----	---+-----	46:01,64:01N = 64:01N,115:01
-----+ ++++-----	+++-----	---+-----	---+-----	---+-----	---+-----	06:01,46:01 = 06:01,115:01
-----+ ++++-----	+++-----	+++++-----	-----	-----	-----	17:01,46:01 = 17:01,115:01
-----+ ++++-----	-----	+++++-----	-----	-----	-----	02:01,86:01 = 46:01,86:01 =
						86:01,115:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	23:01,81:01 = 71:01,81:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	02:01,103:01 = 16:01,71:01
-----+ ++++-----	-----	---+-----	---+-----	---+-----	---+-----	23:01,46:01 = 46:01,71:01
-----+ ++++-----	-----	---+-----	---+-----	---+-----	---+-----	02:01,46:01 = 46:01,46:01 =
						46:01,115:01
-----+ ++++-----	-----	---+-----	---+-----	---+-----	---+-----	02:01,123:01 = 123:01,123:01
-----+ ++++-----	-----	-----	-----	-----	-----	23:01,32:01 = 32:01,71:01
-----+ ++++-----	-----	-----	-----	-----	-----	23:01,115:01 = 71:01,115:01
-----+ ++++-----	-----	-----	-----	-----	-----	23:01,41:01 = 41:01,71:01
-----+ ++++-----	-----	-----	-----	-----	-----	02:01,32:01 = 32:01,32:01
-----+ ++++-----	-----	-----	-----	-----	-----	02:01,115:01 = 115:01,115:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	60:01,101:01 = 83:01,101:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,101:01 = 101:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	02:02,60:01 = 02:02,83:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	23:01,101:01 = 71:01,101:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	22:01,60:01 = 22:01,83:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,22:01 = 22:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	22:01,23:01 = 22:01,71:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	47:01,60:01 = 47:01,83:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,47:01 = 47:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	23:01,47:01 = 47:01,71:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,95:01 = 95:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	23:01,95:01 = 71:01,95:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	60:01,103:01 = 83:01,103:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,103:01 = 103:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	60:01,71:01 = 71:01,83:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,71:01 = 71:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	23:01,103:01 = 71:01,103:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	23:01,71:01 = 71:01,71:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	02:02,63:01 = 22:01,112:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	02:02,101:01 = 101:01,101:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	22:01,55:01 = 22:01,58:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	05:01,103:01 = 22:01,63:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,64:01N = 64:01N,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,93:01 = 93:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,86:01 = 80:01,86:01 =
						86:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,113:01 = 105:01,113:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,109:01 = 105:01,109:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	60:01,100:01 = 83:01,100:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,100:01 = 100:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	60:01,97:01 = 83:01,97:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,97:01 = 05:01,82:01 =
						82:01,97:01 = 97:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	38:01,60:01 = 38:01,83:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,38:01 = 38:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	05:01,60:01 = 05:01,83:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,54:01 = 54:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,21:01 = 21:01,105:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	60:01,112:01 = 83:01,112:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,112:01 = 23:01,116:01 =
						105:01,112:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	77:01,116:01 = 94:01,116:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	60:01,116:01 = 83:01,116:01
-----+ ++++-----	-----+-----	-----	-----	-----	-----	04:02,116:01 = 105:01,116:01





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-----+ +-----+ +++++--- +-----+ +-----+ +-----+	70:01,77:01 = 70:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,70:01 = 70:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	77:01,119:01 = 94:01,119:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,119:01 = 105:01,119:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	14:01,77:01 = 14:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	77:01,91:01 = 91:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,91:01 = 91:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,69:01 = 60:01,69:01 = 69:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	35:01:01,77:01 = 35:01:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,35:01:01 = 35:01:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	35:01:02,77:01 = 35:01:02,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	77:01,98:01 = 94:01,98:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,98:01 = 98:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,67:01 = 67:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	45:01,77:01 = 45:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,58:01 = 58:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	60:01,63:01 = 63:01,83:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,63:01 = 63:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,34:01 = 34:01,77:01 = 34:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	60:01,62:01 = 62:01,83:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,62:01 = 62:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	77:01,108:01 = 94:01,108:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,108:01 = 59:01,80:01 = 80:01,108:01 = 105:01,108:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	77:01,80:01 = 80:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	60:01,80:01 = 80:01,83:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,80:01 = 80:01,80:01 = 80:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	23:01,60:01 = 23:01,83:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	59:01,77:01 = 59:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	77:01,82:01 = 82:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	60:01,77:01 = 60:01,94:01 = 77:01,83:01 = 83:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,77:01 = 04:02,94:01 = 77:01,77:01 = 77:01,94:01 = 77:01,105:01 = 94:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	60:01,82:01 = 82:01,83:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,82:01 = 82:01,82:01 = 82:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	04:02,60:01 = 04:02,83:01 = 60:01,60:01 = 60:01,83:01 = 60:01,105:01 = 83:01,105:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	23:01,34:01 = 34:01,94:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	05:01,64:01N = 06:01,38:01 = 38:01,64:01N
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	05:01,112:01 = 63:01,100:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	55:01,97:01 = 58:01,97:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	38:01,55:01 = 38:01,58:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	05:01,97:01 = 97:01,97:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	05:01,38:01 = 38:01,38:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	45:01,112:01 = 67:01,116:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	55:01,63:01 = 58:01,63:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	54:01,109:01 = 54:01,113:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	30:01,109:01 = 30:01,113:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	14:01,86:01 = 86:01,119:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	14:01,113:01 = 113:01,119:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	14:01,109:01 = 109:01,119:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	35:01:01,86:01 = 35:01:02,86:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	59:01,86:01 = 86:01,108:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	09:01,109:01 = 09:01,113:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	17:01,109:01 = 17:01,113:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	10:01,109:01 = 10:01,113:01
-----+ +-----+ +++++--- +-----+ +-----+ +-----+	58:01,109:01 = 58:01,113:01



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----- +--+----- +----- -+++++-- -+++++-- --+-----	55:01,109:01 = 55:01,113:01
----- +--+----- -+----- -+++++-- -+++++-- --+-----	86:01,86:01 = 86:01,109:01 =
	86:01,113:01
----- +--+----- ----- -+++++-- -+++++-- --+-----	109:01,113:01 = 113:01,113:01
----- +--+----- ++++++-- -+++++-- -+++++-- --+-----	91:01,119:01 = 98:01,119:01
----- +--+----- ----- -+++++-- -+++++-- --+-----	59:01,108:01 = 108:01,108:01
----- +--+----- ++++++-- -+++++-- -+++++-- --+-----	09:01,98:01 = 17:01,35:01:01
----- +--+----- ++++++-- -+++++-- -+++++-- --+-----	06:01,64:01N = 64:01N,64:01N
----- +--+----- +----- +----- -+++++-- -+++++-- --+-----	21:01,55:01 = 21:01,58:01 =
	30:01,58:01
----- +-----+ ++++++-- +-----+ -+++++-- --+-----	55:01,70:01 = 58:01,70:01
----- +-----+ ++++++-- -+++++-- -+++++-- --+-----	14:01,98:01 = 35:01:01,91:01 =
	35:01:02,91:01
----- +-----+ ++++++-- -+++++-- -+++++-- --+-----	35:01:01,98:01 = 35:01:02,98:01
----- +-----+ +-----+ +-----+ -+++++-- -+++++-- --+-----	55:01,58:01 = 58:01,58:01
----- -+-----+ ++++++-- -+++++-- -+++++-- --+-----	14:01,119:01 = 35:01:01,119:01 =
	35:01:02,119:01 = 119:01,119:01
----- -+-----+ ++++++-- -+++++-- -+++++-- --+-----	35:01:01,35:01:01 =
	35:01:01,35:01:02

01:01 = 01:01:01 to 01:01:03  
02:01 = 02:01:02 to 02:01:07  
03:01 = 03:01:01 and 03:01:02  
04:01 = 04:01:01 and 04:01:02  
05:01 = 05:01:01 and 05:01:02  
11:01 = 11:01:01 and 11:01:02  
20:01 = 20:01:01 and 20:01:02  
41:01 = 41:01:01 and 41:01:02



## SPECIFICITY TABLE

### DPB1 SSP typing

Specificities and sizes of the PCR products of the 48 primer mixes used for DPB1 SSP typing

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified DPB1 alleles
<b>1</b>	245 bp	<b>515 bp</b>	*01:01:01-01:01:03, 03:01:01-03:01:02, 13:01, 25:01, 26:01:01-26:01:02, 29:01, 37:01, 44:01, 50:01, 52:01, 56:01, 61:01N, 78:01, 79:01, 88:01, 90:01, 92:01, 104:01, 107:01, 110:01, 111:01, 114:01, 118:01, 122:01, 124:01
<b>2<sup>4</sup></b>	220 bp	<b>515 bp</b>	*01:01:01-01:01:03, 03:01:01-03:01:02, 18:01, 20:01:01-20:01:02, 25:01, 26:01:01-26:01:02, 27:01, 36:01, 50:01, 52:01, 56:01, 61:01N, 78:01, 79:01, 85:01, 87:01, 89:01, 90:01, 92:01, 104:01, 111:01, 114:01, 118:01, 122:01, 124:01
<b>3<sup>3,4,7</sup></b>	100 bp	430 bp	*01:01:01-01:01:03, 04:01:01-04:01:02, 11:01:01-11:01:02, 13:01, 15:01, 26:01:01-26:01:02, 27:01, 31:01, 33:01, 39:01, 40:01, 56:01, 65:01, 66:01, 72:01, 74:01, 85:01, 89:01, 90:01, 96:01, 99:01, 102:01, 107:01, 110:01, 117:01, 118:01, 120:01N, 121:01, 125:01
<b>4<sup>3,4,6</sup></b>	140 bp	430 bp	*01:01:01-01:01:03, 04:01:01-04:01:02, 24:01, 26:01:01-26:01:02, 27:01, 28:01, 31:01, 39:01, 40:01, 49:01, 51:01, 53:01, 56:01, 65:01, 66:01, 72:01, 76:01, 85:01, 89:01, 90:01, 92:01, 96:01, 99:01, 102:01, 118:01, 120:01N, 121:01, 122:01, 125:01
<b>5</b>	235 bp	<b>515 bp</b>	*01:01:01-01:01:03, 08:01, 19:01, 50:01, 57:01, 65:01, 68:01, 73:01, 75:01, 84:01, 90:01, 106:01, 118:01, 122:01
<b>6</b>	165 bp	430 bp	*01:01:01-01:01:03, 13:01, 26:01:01-26:01:02, 65:01, 107:01, 118:01, 122:01
<b>7</b>	160 bp	430 bp	*01:01:01-01:01:03, 13:01, 26:01:01-26:01:02, 56:01, 65:01, 76:01, 90:01, 92:01, 107:01, 110:01, 118:01, 122:01, 125:01
<b>8</b>	210 bp	<b>515 bp</b>	*02:01:02-02:02, 04:01:01-04:02, 05:01:01-05:01:02, 08:01, 16:01, 19:01, 22:01, 23:01, 24:01, 32:01, 33:01, 38:01, 39:01, 40:01, 46:01, 47:01, 48:01, 49:01, 51:01, 53:01, 60:01, 62:01, 63:01, 65:01, 68:01, 71:01, 75:01, 77:01, 80:01, 81:01, 82:01, 84:01, 94:01, 96:01, 97:01, 99:01, 100:01, 101:01, 103:01, 105:01, 106:01, 112:01, 115:01, 116:01, 120:01N, 121:01, 123:01

<b>9<sup>4</sup></b>	165 bp	430 bp	*02:01:02-02:01:05, 02:01:06 <sup>w</sup> , 02:01:07-02:02, 04:02, 05:01:01-05:01:02, 06:01, 16:01, 17:01, 18:01, 19:01, 20:01:01-20:01:02, 21:01, 22:01, 23:01, 30:01, 32:01, 34:01, 36:01, 38:01, 41:01:01-41:01:02, 46:01, 47:01, 48:01, 55:01, 58:01, 59:01, 60:01, 62:01, 63:01, 64:01N, 69:01, 71:01, 77:01, 80:01, 82:01, 83:01, 86:01, 87:01, 91:01, 93:01, 94:01, 95:01, 97:01, 98:01, 100:01, 101:01, 103:01, 105:01, 106:01, 108:01, 109:01, 112:01, 113:01, 115:01, 116:01, 123:01
<b>10</b>	220 bp	<b>515 bp</b>	*02:01:02-02:02, 08:01, 16:01, 19:01, 22:01, 32:01, 33:01, 41:01:01-41:01:02, 46:01, 47:01, 48:01, 71:01, 81:01, 95:01, 101:01, 103:01, 106:01, 115:01, 123:01
<b>11</b>	190 bp	<b>515 bp</b>	*02:01:02-02:01:07, 04:01:01-04:02, 23:01, 24:01, 32:01, 33:01, 41:01:01-41:01:02, 46:01, 47:01, 51:01, 59:01, 60:01, 66:01, 71:01, 72:01, 73:01, 75:01, 77:01, 80:01, 81:01, 82:01, 83:01, 86:01, 94:01, 99:01, 105:01, 108:01, 109:01, 113:01, 115:01, 119:01, 120:01N, 121:01, 123:01
<b>12<sup>3</sup></b>	80 bp	<b>515 bp</b>	*02:01:02, 02:01:03 <sup>w</sup> , 02:01:04-02:01:07, 06:01, 08:01, 09:01, 10:01, 16:01, 17:01, 29:01, 32:01, 37:01, 41:01:01-41:01:02, 44:01, 46:01, 48:01, 64:01N, 81:01, 86:01, 88:01, 93:01, 109:01, 113:01, 115:01, 123:01
<b>13</b>	180 bp	430 bp	*02:02, 05:01:01-05:01:02, 19:01, 22:01, 24:01, 38:01, 47:01, 97:01, 100:01, 101:01, 106:01
<b>14<sup>3,6,8</sup></b>	105 bp, 175 bp	430 bp	*02:02, 05:01:01-05:01:02, 21:01, 22:01, 30:01, 36:01, 38:01, 54:01, 97:01, 100:01, 101:01, 114:01
<b>15</b>	200 bp	430 bp	*02:02, 48:01, 95:01, 99:01, 100:01, 101:01, 112:01, 116:01
<b>16<sup>3,4,9</sup></b>	80 bp, 165 bp	430 bp	*03:01:01-03:01:02, 04:02, 14:01, 18:01, 20:01:01-20:01:02, 25:01, 28:01, 35:01:01-35:01:02, 45:01, 49:01, 50:01, 51:01, 53:01, 57:01, 59:01, 60:01, 61:01N, 68:01, 70:01, 73:01, 75:01, 76:01, 77:01, 78:01, 79:01, 80:01, 82:01, 83:01, 91:01, 92:01, 98:01, 99:01, 104:01, 105:01, 108:01, 111:01, 116:01, 119:01, 122:01, 124:01
<b>17</b>	260 bp	<b>515 bp</b>	*03:01:01-03:01:02, 06:01, 09:01, 10:01, 11:01:01-11:01:02, 13:01, 14:01, 17:01, 20:01:01-20:01:02, 21:01, 25:01, 26:01:01-26:01:02, 27:01, 29:01, 30:01, 35:01:01-35:01:02, 36:01, 37:01, 44:01, 45:01, 52:01, 54:01, 55:01, 56:01, 58:01, 61:01N, 64:01N, 67:01, 69:01, 70:01, 76:01, 78:01, 79:01, 85:01, 87:01, 88:01, 91:01, 92:01, 93:01, 98:01, 104:01, 107:01, 110:01, 111:01, 114:01, 119:01, 124:01, 125:01

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<b>18</b>	180 bp	430 bp	*03:01:01-03:01:02, 06:01, 09:01, 14:01, 17:01, 20:01:01-20:01:02, 29:01, 35:01:01-35:01:02, 44:01, 61:01N, 64:01N, 69:01, 70:01, 76:01, 78:01, 86:01, 88:01, 91:01, 92:01, 98:01, 104:01, 111:01, 119:01, 124:01
<b>19</b>	200 bp	430 bp	*03:01:01-03:01:02, 06:01, 11:01:01-11:01:02, 14:01, 20:01:01-20:01:02, 25:01, 29:01, 44:01, 45:01, 52:01, 56:01, 61:01N, 64:01N, 67:01, 69:01, 70:01, 74:01, 76:01, 78:01, 87:01, 91:01, 92:01, 104:01, 111:01, 114:01, 119:01, 124:01
<b>20</b>	235 bp	<b>515 bp</b>	*03:01:01-03:01:02, 09:01, 10:01, 13:01, 14:01, 25:01, 26:01:01-26:01:02, 29:01, 35:01:01-35:01:02, 37:01, 44:01, 45:01, 52:01, 54:01, 56:01, 61:01N, 67:01, 70:01, 76:01, 78:01, 79:01, 88:01, 92:01, 104:01, 107:01, 110:01, 111:01, 114:01, 119:01, 124:01, 125:01
<b>21<sup>3,4</sup></b>	100 bp	430 bp	*03:01:01-03:01:02, 09:01, 14:01, 29:01, 35:01:01-35:01:02, 44:01, 50:01, 57:01, 61:01N, 70:01, 76:01, 78:01, 88:01, 92:01, 104:01, 111:01, 119:01, 124:01
<b>22<sup>4</sup></b>	185 bp	430 bp	*04:01:01-04:01:02, 24:01, 33:01, 39:01, 49:01, 51:01, 66:01, 72:01, 81:01, 96:01, 99:01, 117:01, 120:01N, 121:01
<b>23<sup>3</sup></b>	145 bp	430 bp	*05:01:01-05:01:02, 34:01, 36:01, 38:01, 62:01, 63:01, 97:01, 100:01, 112:01, 114:01, 116:01
<b>24<sup>10</sup></b>	195 bp, 265 bp	<b>515 bp</b>	*05:01:01-05:01:02, 08:01, 16:01, 19:01, 22:01, 31:01, 38:01, 57:01, 63:01, 65:01, 68:01, 84:01, 97:01, 101:01, 102:01, 103:01, 106:01
<b>25<sup>11</sup></b>	190 bp, 265 bp	<b>515 bp</b>	*05:01:01-05:01:02, 21:01, 22:01, 36:01, 38:01, 44:01, 58:01, 63:01, 70:01, 97:01, 114:01
<b>26<sup>3,12</sup></b>	75 bp, 205 bp,	<b>515 bp</b>	*06:01, 09:01, 17:01, 29:01, 44:01, 46:01, 64:01N, 86:01, 88:01, 101:01, 123:01
<b>27<sup>3</sup></b>	95 bp	430 bp	*06:01, 17:01, 20:01:01-20:01:02, 46:01, 64:01N, 69:01, 80:01, 86:01, 91:01, 98:01, 108:01
<b>28<sup>13</sup></b>	200 bp, 260 bp	430 bp	*09:01, 10:01, 13:01, 17:01, 21:01, 26:01:01-26:01:02, 27:01, 30:01, 35:01:01-35:01:02, 36:01, 37:01, 54:01, 55:01, 58:01, 66:01, 79:01, 85:01, 86:01, 88:01, 93:01, 98:01, 107:01, 109:01, 110:01, 113:01, 117:01, 119:01, 125:01
<b>29</b>	220 bp	<b>515 bp</b>	*09:01, 10:01, 17:01, 30:01, 54:01, 55:01, 58:01, 86:01, 113:01
<b>30</b>	185 bp	430 bp	*09:01, 14:01, 17:01, 35:01:01, 76:01, 86:01, 91:01, 98:01, 119:01
<b>31<sup>3,5</sup></b>	120 bp	430 bp	*01:01:01-01:01:03, 05:01:01-05:01:02, 08:01, 10:01, 11:01:01-11:01:02, 13:01, 16:01, 19:01, 21:01, 22:01, 25:01, 26:01:01-26:01:02, 27:01, 30:01, 31:01, 36:01,

			37:01, 38:01, 45:01, 52:01, 54:01, 55:01, 56:01, 58:01, 63:01, 65:01, 67:01, 68:01, 79:01, 84:01, 85:01, 87:01, 89:01, 90:01, 93:01, 97:01, 102:01, 103:01, 106:01, 107:01, 110:01, 114:01, 118:01, 122:01, 125:01
<b>32<sup>3,14</sup></b>	75 bp, 195 bp	430 bp	*11:01:01-11:01:02, 78:01
<b>33<sup>3,15</sup></b>	140 bp, 205 bp	430 bp	*13:01, 33:01, 81:01, 107:01, 110:01, 117:01, 123:01
<b>34</b>	210 bp	<b>515 bp</b>	*14:01, 45:01, 67:01, 76:01, 91:01, 119:01
<b>35</b>	195 bp	430 bp	*15:01, 74:01
<b>36</b> <b>37<sup>5,16</sup></b>	260 bp 185 bp, 255 bp	<b>515 bp</b> <b>515 bp</b>	*15:01, 18:01, 28:01, 34:01, 40:01, 53:01, 62:01 *04:02, 08:01 <sup>?</sup> , 15:01, 21:01 <sup>?</sup> , 22:01 <sup>?</sup> , 24:01 <sup>?</sup> , 25:01 <sup>?</sup> , 27:01 <sup>?</sup> , 28:01, 29:01 <sup>?</sup> , 31:01 <sup>?</sup> , 32:01 <sup>?</sup> , 33:01 <sup>?</sup> , 34:01 <sup>?</sup> , 35:01:01 <sup>?</sup> , 36:01 <sup>?</sup> , 37:01 <sup>?</sup> , 38:01 <sup>?</sup> , 40:01, 41:01:01 <sup>?</sup> - 41:01:02 <sup>?</sup> , 44:01 <sup>?</sup> , 46:01 <sup>?</sup> , 47:01 <sup>?</sup> , 48:01 <sup>?</sup> , 49:01 <sup>?</sup> , 50:01 <sup>?</sup> , 51:01 <sup>?</sup> , 52:01 <sup>?</sup> , 53:01, 54:01 <sup>?</sup> , 56:01 <sup>?</sup> , 57:01 <sup>?</sup> , 58:01 <sup>?</sup> , 59:01, 60:01 <sup>?</sup> , 61:01N <sup>?</sup> , 62:01 <sup>?</sup> , 63:01 <sup>?</sup> , 64:01N <sup>?</sup> , 65:01 <sup>?</sup> , 66:01 <sup>?</sup> , 67:01 <sup>?</sup> , 68:01 <sup>?</sup> , 69:01 <sup>?</sup> , 70:01 <sup>?</sup> , 71:01 <sup>?</sup> , 72:01 <sup>?</sup> , 73:01 <sup>?</sup> , 74:01, 75:01 <sup>?</sup> , 76:01 <sup>?</sup> , 77:01 <sup>?</sup> , 78:01 <sup>?</sup> , 79:01 <sup>?</sup> , 80:01 <sup>?</sup> , 81:01 <sup>?</sup> , 82:01 <sup>?</sup> , 83:01 <sup>?</sup> , 84:01 <sup>?</sup> , 86:01 <sup>?</sup> , 87:01 <sup>?</sup> , 89:01 <sup>?</sup> , 90:01 <sup>?</sup> , 91:01 <sup>?</sup> , 92:01 <sup>?</sup> , 93:01 <sup>?</sup> , 94:01 <sup>?</sup> , 95:01 <sup>?</sup> , 96:01 <sup>?</sup> , 97:01 <sup>?</sup> , 98:01 <sup>?</sup> , 99:01 <sup>?</sup> , 100:01 <sup>?</sup> , 101:01 <sup>?</sup> , 102:01 <sup>?</sup> , 103:01 <sup>?</sup> , 108:01 <sup>?</sup> , 109:01 <sup>?</sup> , 110:01 <sup>?</sup> , 111:01 <sup>?</sup> , 112:01 <sup>?</sup> , 113:01 <sup>?</sup> , 114:01 <sup>?</sup> , 115:01 <sup>?</sup> , 116:01 <sup>?</sup> , 117:01 <sup>?</sup> , 118:01 <sup>?</sup> , 119:01 <sup>?</sup> , 120:01N <sup>?</sup> , 122:01 <sup>?</sup> , 125:01 <sup>?</sup>
<b>38<sup>3</sup></b>	100 bp	<b>515 bp</b>	*23:01, 34:01, 52:01, 55:01, 58:01, 62:01, 63:01, 67:01, 71:01, 87:01, 95:01, 103:01, 112:01, 121:01
<b>39</b>	210 bp	<b>515 bp</b>	*28:01, 31:01, 34:01, 57:01, 59:01, 72:01, 73:01, 95:01, 102:01, 108:01
<b>40<sup>3,4,17</sup></b>	95 bp, 180 bp	430 bp	*06:01 <sup>?</sup> , 08:01 <sup>?</sup> , 10:01 <sup>?</sup> , 11:01:01 <sup>?</sup> -11:01:02 <sup>?</sup> , 16:01 <sup>?</sup> , 17:01 <sup>?</sup> , 18:01 <sup>?</sup> , 20:01:01 <sup>?</sup> -20:01:02 <sup>?</sup> , 21:01 <sup>?</sup> , 22:01 <sup>?</sup> , 23:01 <sup>?</sup> , 24:01 <sup>?</sup> , 25:01 <sup>?</sup> , 26:01:01 <sup>?</sup> -26:01:02 <sup>?</sup> , 27:01 <sup>?</sup> , 28:01 <sup>?</sup> , 29:01 <sup>?</sup> , 30:01, 31:01 <sup>?</sup> , 32:01 <sup>?</sup> , 33:01 <sup>?</sup> , 34:01 <sup>?</sup> , 35:01:01 <sup>?</sup> -35:01:02 <sup>?</sup> , 36:01 <sup>?</sup> , 37:01 <sup>?</sup> , 38:01 <sup>?</sup> , 39:01 <sup>?</sup> , 40:01 <sup>?</sup> , 41:01:01 <sup>?</sup> -41:01:02 <sup>?</sup> , 44:01 <sup>?</sup> , 45:01 <sup>?</sup> , 46:01 <sup>?</sup> , 47:01 <sup>?</sup> , 48:01 <sup>?</sup> , 49:01 <sup>?</sup> , 50:01 <sup>?</sup> , 51:01 <sup>?</sup> , 52:01 <sup>?</sup> , 53:01 <sup>?</sup> , 54:01, 55:01 <sup>?</sup> , 56:01 <sup>?</sup> , 57:01 <sup>?</sup> , 58:01 <sup>?</sup> , 59:01 <sup>?</sup> , 60:01 <sup>?</sup> , 61:01N <sup>?</sup> , 62:01 <sup>?</sup> , 63:01 <sup>?</sup> , 64:01N <sup>?</sup> , 65:01 <sup>?</sup> , 66:01 <sup>?</sup> , 67:01 <sup>?</sup> , 68:01 <sup>?</sup> , 69:01 <sup>?</sup> , 70:01 <sup>?</sup> , 71:01 <sup>?</sup> , 72:01 <sup>?</sup> , 73:01 <sup>?</sup> , 74:01 <sup>?</sup> , 75:01 <sup>?</sup> , 76:01 <sup>?</sup> , 77:01 <sup>?</sup> , 78:01 <sup>?</sup> , 79:01 <sup>?</sup> , 80:01 <sup>?</sup> , 81:01 <sup>?</sup> , 82:01 <sup>?</sup> , 83:01 <sup>?</sup> , 84:01 <sup>?</sup> , 85:01 <sup>?</sup> , 86:01 <sup>?</sup> , 87:01 <sup>?</sup> , 88:01 <sup>?</sup> , 89:01 <sup>?</sup> , 90:01 <sup>?</sup> , 91:01 <sup>?</sup> , 92:01 <sup>?</sup> , 93:01 <sup>?</sup> , 94:01 <sup>?</sup> , 95:01 <sup>?</sup> , 96:01 <sup>?</sup> , 97:01 <sup>?</sup> , 98:01 <sup>?</sup> , 99:01 <sup>?</sup> , 100:01 <sup>?</sup> ,

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			101:01 <sup>?</sup> , 102:01 <sup>?</sup> , 103:01 <sup>?</sup> , 107:01, 108:01 <sup>?</sup> , 109:01 <sup>?</sup> , 110:01 <sup>?</sup> , 111:01 <sup>?</sup> , 112:01 <sup>?</sup> , 113:01 <sup>?</sup> , 114:01 <sup>?</sup> , 115:01 <sup>?</sup> , 116:01 <sup>?</sup> , 117:01 <sup>?</sup> , 118:01 <sup>?</sup> , 119:01 <sup>?</sup> , 120:01N <sup>?</sup> , 121:01 <sup>?</sup> , 122:01 <sup>?</sup> , 123:01 <sup>?</sup> , 124:01 <sup>?</sup> , 125:01 <sup>?</sup>
<b>41</b> <sup>3,18</sup>	75 bp, 230 bp	<b>515 bp</b>	*31:01, 34:01, 77:01, 94:01
<b>42</b> <sup>3,5,19</sup>	140 bp, 185 bp, 285 bp	430 bp	*32:01, 82:01, 97:01
<b>43</b> <sup>3,4,6,20</sup>	65 bp, 190 bp	430 bp	*05:01:01-05:01:02, 06:01 <sup>?</sup> , 08:01 <sup>?</sup> , 10:01 <sup>?</sup> , 11:01:01 <sup>?</sup> -11:01:02 <sup>?</sup> , 16:01 <sup>?</sup> , 17:01 <sup>?</sup> , 18:01 <sup>?</sup> , 19:01, 20:01:01 <sup>?</sup> -20:01:02 <sup>?</sup> , 21:01 <sup>?</sup> , 22:01 <sup>?</sup> , 23:01 <sup>?</sup> , 24:01 <sup>?</sup> , 25:01 <sup>?</sup> , 26:01:01 <sup>?</sup> -26:01:02 <sup>?</sup> , 27:01 <sup>?</sup> , 28:01 <sup>?</sup> , 29:01 <sup>?</sup> , 30:01 <sup>?</sup> , 31:01 <sup>?</sup> , 32:01 <sup>?</sup> , 33:01 <sup>?</sup> , 34:01, 35:01:01 <sup>?</sup> - 35:01:02 <sup>?</sup> , 36:01 <sup>?</sup> , 37:01 <sup>?</sup> , 38:01 <sup>?</sup> , 39:01 <sup>?</sup> , 40:01 <sup>?</sup> , 41:01:01 <sup>?</sup> -41:01:02 <sup>?</sup> , 44:01 <sup>?</sup> , 45:01 <sup>?</sup> , 46:01 <sup>?</sup> , 47:01 <sup>?</sup> , 48:01 <sup>?</sup> , 49:01 <sup>?</sup> , 50:01 <sup>?</sup> , 51:01 <sup>?</sup> , 52:01 <sup>?</sup> , 53:01 <sup>?</sup> , 54:01 <sup>?</sup> , 55:01 <sup>?</sup> , 56:01 <sup>?</sup> , 57:01 <sup>?</sup> , 58:01 <sup>?</sup> , 59:01 <sup>?</sup> , 60:01 <sup>?</sup> , 61:01N <sup>?</sup> , 62:01, 63:01 <sup>?</sup> , 64:01N <sup>?</sup> , 65:01 <sup>?</sup> , 66:01 <sup>?</sup> , 67:01 <sup>?</sup> , 68:01 <sup>?</sup> , 69:01 <sup>?</sup> , 70:01 <sup>?</sup> , 71:01 <sup>?</sup> , 72:01 <sup>?</sup> , 73:01 <sup>?</sup> , 74:01 <sup>?</sup> , 75:01 <sup>?</sup> , 76:01 <sup>?</sup> , 77:01 <sup>?</sup> , 78:01 <sup>?</sup> , 79:01 <sup>?</sup> , 80:01 <sup>?</sup> , 81:01 <sup>?</sup> , 82:01 <sup>?</sup> , 83:01 <sup>?</sup> , 84:01 <sup>?</sup> , 85:01 <sup>?</sup> , 86:01 <sup>?</sup> , 87:01 <sup>?</sup> , 88:01 <sup>?</sup> , 89:01 <sup>?</sup> , 90:01 <sup>?</sup> , 91:01 <sup>?</sup> , 92:01 <sup>?</sup> , 93:01 <sup>?</sup> , 94:01 <sup>?</sup> , 95:01 <sup>?</sup> , 96:01 <sup>?</sup> , 97:01 <sup>?</sup> , 98:01 <sup>?</sup> , 99:01 <sup>?</sup> , 100:01 <sup>?</sup> , 101:01 <sup>?</sup> , 102:01 <sup>?</sup> , 103:01 <sup>?</sup> , 104:01, 108:01 <sup>?</sup> , 109:01 <sup>?</sup> , 110:01 <sup>?</sup> , 111:01 <sup>?</sup> , 112:01 <sup>?</sup> , 113:01 <sup>?</sup> , 114:01 <sup>?</sup> , 115:01 <sup>?</sup> , 116:01 <sup>?</sup> , 117:01 <sup>?</sup> , 118:01 <sup>?</sup> , 119:01 <sup>?</sup> , 120:01N <sup>?</sup> , 121:01 <sup>?</sup> , 122:01 <sup>?</sup> , 123:01 <sup>?</sup> , 124:01 <sup>?</sup> , 125:01 <sup>?</sup>
<b>44</b> <sup>3,5,21</sup>	110 bp, 185 bp, 245 bp, 270 bp	430 bp	*38:01, 64:01N, 111:01, 118:01, 120:01N
<b>45</b> <sup>3,22</sup>	120 bp, 190 bp, 245 bp	430 bp	*39:01, 46:01, 49:01, 80:01, 86:01, 96:01, 108:01, 115:01, 117:01
<b>46</b> <sup>3,23</sup>	70 bp, 210 bp	<b>515 bp</b>	*41:01:01-41:01:02, 60:01, 69:01, 83:01, 96:01
<b>47</b> <sup>24</sup>	165 bp, 255 bp	<b>515 bp</b>	*02:01:02-02:02, 04:01:01-04:01:02, 08:01 <sup>?</sup> , 17:01, 21:01 <sup>?</sup> , 22:01 <sup>?</sup> , 23:01, 24:01 <sup>?</sup> , 25:01 <sup>?</sup> , 26:01:01 <sup>?</sup> , 27:01 <sup>?</sup> , 28:01, 29:01 <sup>?</sup> , 30:01, 31:01 <sup>?</sup> , 32:01 <sup>?</sup> , 33:01 <sup>?</sup> , 34:01 <sup>?</sup> , 35:01:01 <sup>?</sup> , 36:01 <sup>?</sup> , 37:01 <sup>?</sup> , 38:01 <sup>?</sup> , 39:01, 40:01 <sup>?</sup> , 41:01:01 <sup>?</sup> -41:01:02 <sup>?</sup> , 44:01, 46:01 <sup>?</sup> , 47:01 <sup>?</sup> , 48:01 <sup>?</sup> , 49:01 <sup>?</sup> , 50:01 <sup>?</sup> , 51:01 <sup>?</sup> , 52:01 <sup>?</sup> , 53:01 <sup>?</sup> , 54:01 <sup>?</sup> , 55:01, 56:01 <sup>?</sup> , 57:01 <sup>?</sup> , 58:01 <sup>?</sup> , 60:01 <sup>?</sup> , 61:01N <sup>?</sup> , 62:01 <sup>?</sup> , 63:01 <sup>?</sup> , 64:01N <sup>?</sup> , 65:01 <sup>?</sup> , 66:01 <sup>?</sup> , 67:01 <sup>?</sup> , 68:01 <sup>?</sup> , 69:01 <sup>?</sup> , 70:01 <sup>?</sup> , 71:01 <sup>?</sup> , 72:01 <sup>?</sup> , 73:01 <sup>?</sup> , 74:01 <sup>?</sup> ,

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			75:01 <sup>?</sup> , 76:01 <sup>?</sup> , 77:01 <sup>?</sup> , 78:01 <sup>?</sup> , 79:01 <sup>?</sup> , 80:01 <sup>?</sup> , 81:01 <sup>?</sup> , 82:01 <sup>?</sup> , 83:01 <sup>?</sup> , 84:01 <sup>?</sup> , 86:01 <sup>?</sup> , 87:01 <sup>?</sup> , 89:01 <sup>?</sup> , 90:01 <sup>?</sup> , 91:01 <sup>?</sup> , 92:01 <sup>?</sup> , 93:01 <sup>?</sup> , 94:01 <sup>?</sup> , 95:01 <sup>?</sup> , 96:01 <sup>?</sup> , 97:01 <sup>?</sup> , 98:01 <sup>?</sup> , 99:01 <sup>?</sup> , 100:01 <sup>?</sup> , 101:01 <sup>?</sup> , 102:01 <sup>?</sup> , 103:01 <sup>?</sup> , 105:01, 106:01, 108:01 <sup>?</sup> , 109:01 <sup>?</sup> , 110:01 <sup>?</sup> , 111:01 <sup>?</sup> , 112:01 <sup>?</sup> , 113:01 <sup>?</sup> , 114:01, 115:01 <sup>?</sup> , 116:01 <sup>?</sup> , 117:01 <sup>?</sup> , 118:01 <sup>?</sup> , 119:01 <sup>?</sup> , 120:01N <sup>?</sup> , 121:01, 122:01 <sup>?</sup> , 123:01, 124:01, 125:01 <sup>?</sup>
<b>48<sup>3,25</sup></b>	115 bp, 210 bp, 280 bp	<b>515 bp</b>	*56:01, 61:01N, 66:01, 76:01, 85:01, 92:01, 110:01, 125:01

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of DPB1 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.

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DPB1 typing.

In addition, wells number 2, 5, 8, 10 to 12, 17, 20, 24 to 26, 29, 34, 36 to 39, 41 and 46 to 48 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

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

<sup>3</sup>Specific PCR fragments shorter than 150 base pairs are less intense and not as sharp as longer specific bands.

<sup>4</sup>Primer mixes 2, 3, 4, 9, 16, 21, 22, 40 and 43 may yield less specific PCR products than the other DPB1 primer mixes.

<sup>5</sup>Primer mixes 31, 37, 42 and 44 may give rise to non-specific amplifications.

<sup>6</sup>Primer mixes 4, 14 and 43 have a tendency of giving rise to weaker positive control bands than the other DPB1 primer mixes, most pronounced in primer mix 14.

<sup>7</sup>Primer mix 3 has a tendency of giving rise to primer oligomer formation

<sup>8</sup>Primer mix 14: Specific PCR fragment of 105 bp in the DPB1\*02:02, 05:01:01-05:01:02, 22:01, 38:01, 97:01, 100:01 and 101:01 allele. Specific PCR fragment of 175 bp in the DPB1\*30:01 and 54:01 alleles. Specific PCR fragments of 105 and 175 bp in the DPB1 \*21:01, 36:01, 54:01 and 114:01 alleles.

<sup>9</sup>Primer mix 16: Specific PCR fragment of 80 bp in the DPB1\*03:01:01-03:01:02, 04:02, 14:01, 18:01, 20:01:01-20:01:02, 25:01, 28:01, 35:01:01-35:01:02, 45:01, 49:01, 50:01, 51:01, 53:01, 57:01, 59:01, 60:01, 61:01N, 68:01, 70:01, 73:01, 75:01, 76:01, 77:01, 78:01, 79:01, 80:01, 82:01, 83:01, 91:01, 92:01, 98:01, 104:01, 105:01, 108:01, 111:01, 116:01, 119:01, 122:01 and 124:01 alleles. Specific PCR fragment of 165 bp in the DPB1\*99:01 allele.



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<sup>10</sup>Primer mix 24: Specific PCR fragment of 195 bp in the DPB1\*101:01 allele. Specific PCR fragment of 265 bp in the DPB1\*05:01:01-05:01:02, 08:01, 16:01, 19:01, 22:01, 31:01, 38:01, 57:01, 63:01, 65:01, 68:01, 84:01, 97:01, 102:01, 103:01 and 106:01 alleles.

<sup>11</sup>Primer mix 25: Specific PCR fragment of 190 bp in the DPB1\*05:01:01-05:01:02, 21:01, 22:01, 36:01, 38:01, 44:01, 58:01, 63:01, 97:01 and 114:01 alleles. Specific PCR fragment of 265 bp in the DPB1\*70:01 allele.

<sup>12</sup>Primer mix 26: Specific PCR fragment of 75 bp in the DPB1\*06:01, 09:01, 17:01, 29:01, 44:01, 46:01, 64:01N, 86:01, 88:01 and 101:01 alleles. Specific PCR fragment of 205 bp in the DPB1\*123:01 allele.

<sup>13</sup>Primer mix 28: Specific PCR fragment of 200 bp in the DPB1\*09:01, 10:01, 13:01, 17:01, 21:01, 26:01:01-26:01:02, 27:01, 30:01, 35:01:01-35:01:02, 36:01, 37:01, 54:01, 55:01, 58:01, 66:01, 79:01, 85:01, 86:01, 88:01, 93:01, 98:01, 107:01, 109:01, 110:01, 113:01, 117:01 and 125:01 alleles. Specific PCR fragment of 260 bp in the DPB1\*119:01 allele.

<sup>14</sup>Primer mix 32: Specific PCR fragment of 75 bp in the DPB1\*78:01 allele. Specific PCR fragment of 195 bp in the DBB1\*11:01:01-11:01:02 alleles.

<sup>15</sup>Primer mix 33: Specific PCR fragment of 140 bp in the DPB1\*13:01, 33:01, 81:01, 107:01, 110:01 and 117:01 alleles. Specific PCR fragment of 205 bp in the DBB1\*123:01 allele.

<sup>16</sup>Primer mix 37: Specific PCR fragment of 185 bp in the DPB1\*15:01, 28:01, 40:01, 53:01 and 74:01 alleles. Specific PCR fragment of 255 bp in the DPB1\*04:02 and 59:01 alleles. The 3<sup>rd</sup> exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 37 matching the DPB1\*04:02 and 59:01 sequence motif in the 3<sup>rd</sup> exon may amplify other DPB1 alleles.

<sup>17</sup>Primer mix 40: Specific PCR fragment of 95 bp in the DPB1\*107:01 allele. Specific PCR fragment of 180 bp in the DPB1\*30:01 and 54:01 alleles. The 1<sup>st</sup> exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 40 matching the DPB1\*107:01 sequence motif in the 1<sup>st</sup> exon may amplify other DPB1 alleles.

<sup>18</sup>Primer mix 41: Specific PCR fragment of 75 bp in the DPB1\*77:01 allele. Specific PCR fragment of 230 bp in the DPB1\*31:01, 34:01 and 94:01 alleles.

<sup>19</sup>Primer mix 42: Specific PCR fragment of 140 bp in the DPB1\*97:01 allele. Specific PCR fragment of 185 bp in the DPB1\*32:01 allele. Specific PCR fragment of 285 bp in the DPB1\*82:01 allele.

<sup>20</sup>Primer mix 43: Specific PCR fragment of 65 bp in the DPB1\*05:01:01, 05:01:02, 19:01 and 104:01 alleles. Specific PCR fragment of 190 bp in the DPB1\*34:01 and 62:01 alleles. The 4<sup>th</sup> exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 43 matching the DPB1\*05:01:01, 05:01:02, 19:01 and 104:01 sequence motif in the 4<sup>th</sup> exon may amplify other DPB1 alleles.

<sup>21</sup>Primer mix 44: Specific PCR fragment of 185 bp in the DPB1\*111:01 and 120:01 alleles. Specific PCR fragment of 245 bp in the DPB1\*38:01 allele. Specific PCR fragment of 270 bp in the DPB1\*64:01N allele. Specific PCR fragment of 110 and 185 bp in the DPB1\*118:01 allele.

<sup>22</sup>Primer mix 45: Specific PCR fragment of 120 bp in the DPB1\*46:01, 80:01, 86:01 and 108:01 alleles. Specific PCR fragment of 190 bp in the DPB1\*39:01, 49:01, 96:01 and 117:01 alleles. Specific PCR fragment of 245 bp in the DPB1\*115:01 allele.

<sup>23</sup>Primer mix 46: Specific PCR fragment of 70 bp in the DPB1\* 69:01 allele. Specific PCR fragment of 210 bp in the DPB1\*96:01 allele. Specific PCR fragment of 70 and 210 bp in the DPB1\*41:01:01-41:01:02, 60:01 and 83:01 alleles.

<sup>24</sup>Primer mix 47: Specific PCR fragment of 165 bp in the DPB1\* 44:01 and 114:01 alleles. Specific PCR fragment of 255 bp in the DPB1\*02:01:02-02:02:02, 04:01:01-04:01:02, 17:01, 23:01, 28:01, 30:01, 39:01, 55:01, 105:01, 106:01, 114:01, 121:01, 123:01 and 124:01 alleles. The 3<sup>rd</sup> exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 47 matching the DPB1\*02:01:02-02:02:02, 04:01:01-04:01:02, 17:01, 23:01, 28:01, 30:01, 39:01, 55:01, 105:01, 106:01, 114:01, 121:01, 123:01 and 124:01 sequence motif in the 3<sup>rd</sup> exon may amplify other DPB1 alleles.

<sup>25</sup>Primer mix 48: Specific PCR fragment of 115 bp in the DPB1\*56:01, 66:01, 76:01, 92:01, 110:01 and 125:01 alleles. Specific PCR fragment of 210 bp in the DPB1\*61:01N allele. Specific PCR fragment of 280 bp in the DPB1\*85:01 allele.

'w', might be weakly amplified.

'?', nucleotide sequence information not available for the primer matching sequence.

INTERPRETATION TABLE																									
DPB1 SSP typing																									
Amplification patterns of the DPB1*01:01 to DPB1*125:01 alleles																									
	Well <sup>5</sup>																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Length of spec. PCR product	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195	
Length of int. pos. control <sup>1</sup>	515	515	430	430	515	430	430	515	430	515	515	515	430	430	430	430	515	430	430	515	430	430	430	515	
5'-primer(s) <sup>2</sup>	5'-TgT <sup>3'</sup> 9(112)	5'-TgT <sup>3'</sup> 9(112)	5'-CgC <sup>3'</sup> 36(194)	5'-CgC <sup>3'</sup> 36(194)	5'-ggg <sup>3'</sup> 11(119)	5'-gTA <sup>3'</sup> 35(191)	5'-CgC <sup>3'</sup> 36(194)	5'-TTT <sup>3'</sup> 9(113)	5'-CgT <sup>3'</sup> 36(194)	5'-AgC <sup>3'</sup> 35(190)	5'-TTT <sup>3'</sup> 9(113)	5'-gTT <sup>3'</sup> 35(191)	5'-gAT <sup>3'</sup> 55(252)	5'-TTT <sup>3'</sup> 9(113)	5'-gTT <sup>3'</sup> 11(119)	5'-gAg <sup>3'</sup> 28(169)	5'-gTT <sup>3'</sup> 11(119)	5'-gTT <sup>3'</sup> 11(119)	5'-gTT <sup>3'</sup> 11(119)	5'-gTT <sup>3'</sup> 11(119)	5'-gTT <sup>3'</sup> 11(119)	5'-gAC <sup>3'</sup> 57(258)	5'-CgC <sup>3'</sup> 36(194)	5'-AgC <sup>3'</sup> 35(190)	5'-TTT <sup>3'</sup> 9(113)
3'-primer(s) <sup>3</sup>	5'-CAT <sup>3'</sup> 76(315)	5'-CTT <sup>3'</sup> 69(292)	5'-CAG <sup>3'</sup> 55(251)	5'-CTT <sup>3'</sup> 69(292)	5'-CAT <sup>3'</sup> 76(315)	5'-CAT <sup>3'</sup> 76(315)	5'-CAT <sup>3'</sup> 76(315)	5'-gAT <sup>3'</sup> 65(280)	5'-CAT <sup>3'</sup> 76(313)	5'-TAT <sup>3'</sup> 76(313)	5'-CTC <sup>3'</sup> 69(292)	5'-gTT <sup>3'</sup> 84(337)	5'-CTC <sup>3'</sup> 69(292)	5'-gCC <sup>3'</sup> 55(252)	5'-gCC <sup>3'</sup> 55(252)	5'-CgC <sup>3'</sup> 84(338)	5'-CTT <sup>3'</sup> 69(292)	5'-CgT <sup>3'</sup> 84(338)	5'-TAG <sup>3'</sup> 57(258)	5'-gAg <sup>3'</sup> 65(280)	5'-CAT <sup>3'</sup> 76(315)	5'-CAT <sup>3'</sup> 76(315)	5'-CgC <sup>3'</sup> 84(338)	5'-CTT <sup>3'</sup> 69(292)	5'-CgT <sup>3'</sup> 84(338)
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	





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Length of spec. PCR product	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195	
														175		165								265	
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	
DPB1 allele <sup>4</sup>																									
*01:01:01-01:01:03	1	2	3	4	5	6	7																		
*02:01:02, 02:01:04-02:01:05, 02:01:07								8	9	10	11	12													
*02:01:03								8	9	10	11	w													
*02:01:06								8	w	10	11	12													
*02:02								8	9	10			13	14	15										
*03:01:01-03:01:02	1	2														16	17	18	19	20	21				
*04:01:01-04:01:02			3	4				8			11											22			
*04:02								8	9		11					16									
*05:01:01-05:01:02								8	9				13	14										23	24
*06:01									9			12					17	18	19						
*08:01					5			8		10		12												24	
*09:01												12					17	18		20	21				
*10:01												12					17			20					
*11:01:01-11:01:02			3														17		19						
*13:01	1		3			6	7										17			20					
*14:01																16	17	18	19	20	21				
*15:01			3																						
*16:01								8	9	10		12												24	
*17:01									9			12					17	18							
*18:01		2							9							16									
*19:01					5			8	9	10			13											24	
*20:01:01-20:01:02		2							9							16	17	18	19						
*21:01									9					14			17								
*22:01								8	9	10			13	14										24	
*23:01								8	9		11														
*24:01				4				8			11		13									22			
*25:01	1	2														16	17		19	20					
*26:01:01	1	2	3	4		6	7										17			20					
*26:01:02	1	2	3	4		6	7										17			20					
*27:01		2	3	4													17								
*28:01				4												16									
*29:01	1											12					17	18	19	20	21				
*30:01									9				14				17								
*31:01			3	4																				24	
*32:01								8	9	10	11	12													
*33:01			3					8		10	11											22			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	



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																Length of spec. PCR product										
190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	110	120	70	165	115			
265	205		260				195	205				255			180		230	185	190	185	190	210	255	210		
																		285	245	245				280		
																			270							
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. DPB1 allele <sup>4</sup>		
						31																			*01:01:01-01:01:03	
																							47		*02:01:02, 02:01:04-02:01:05, 02:01:07	
																							47		*02:01:03	
																							47		*02:01:06	
																							47		*02:02	
																							47		*03:01:01-03:01:02	
												37													*04:01:01-04:01:02	
																			43						*05:01:01-05:01:02	
25						31									?			?							*06:01	
	26	27													?			?							*08:01	
						31							?		?			?					?		*09:01	
	26		28	29	30																				*10:01	
			28	29		31									?			?							*11:01:01-11:01:02	
						31	32								?			?							*13:01	
			28			31		33																	*14:01	
					30			34																	*15:01	
								35	36	37															*16:01	
						31									?			?							*17:01	
	26	27	28	29	30										?			?					47		*18:01	
								36							?			?							*19:01	
						31												43							*20:01:01-20:01:02	
		27													?			?							*21:01	
25			28			31						?		?			?						?		*22:01	
25						31						?		?			?						?		*23:01	
												38		?			?						47		*24:01	
												?		?			?						?		*25:01	
						31						?		?			?						?		*26:01:01	
			28			31								?			?						?		*26:01:02	
			28			31								?			?						?		*27:01	
			28			31						?		?			?						?		*28:01	
								36	37	39	?			?			?						47		*29:01	
	26											?		?			?						?		*30:01	
			28	29		31								40			?						47		*31:01	
						31						?	39	?	41		?						?		*32:01	
												?		?		42	?						?		*33:01	
								33				?		?			?						?			
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. PCR product	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
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
														175	165									265
*34:01									9															23
*35:01:01															16		17	18		20	21			
*35:01:02															16		17	18		20	21			
*36:01		2							9					14			17							23
*37:01	1											12					17			20				
*38:01								8	9				13	14									23	24
*39:01			3	4				8													22			
*40:01			3	4				8																
*41:01:01-41:01:02									9	10	11	12												
*44:01	1											12					17	18	19	20	21			
*45:01															16		17		19	20				
*46:01								8	9	10	11	12												
*47:01								8	9	10	11		13											
*48:01								8	9	10		12			15									
*49:01				4				8								16						22		
*50:01	1	2			5											16					21			
*51:01				4				8			11					16						22		
*52:01	1	2															17		19	20				
*53:01				4				8								16								
*54:01													14				17			20				
*55:01									9								17							
*56:01	1	2	3	4			7										17		19	20				
*57:01					5											16					21			24
*58:01									9								17							
*59:01									9		11					16								
*60:01								8	9		11					16								
*61:01N	1	2														16	17	18	19	20	21			
*62:01								8	9														23	
*63:01								8	9														23	24
*64:01N									9			12					17	18	19					
*65:01			3	4	5	6	7	8																24
*66:01			3	4							11											22		
*67:01																	17		19	20				
*68:01					5			8								16								24
*69:01									9								17	18	19					
*70:01																16	17	18	19	20	21			
*71:01								8	9	10	11													
*72:01			3	4							11											22		
*73:01					5						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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Length of spec. PCR product																Well No.															
190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	110	120	70	165	115								
265	205		260				195	205				255			180		230	185	190	185	190	210	255	210							
																		285		245	245			280							
																				270											
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48								
											36	?	38	39	?	41		43				?									
			28		30								?		?			?				?									
			28												?			?													
25			28			31							?		?			?					?								
			28			31							?		?			?					?								
25						31							?		?			?	44				?								
													?		?			?			45		47								
											36	37			?			?					?								
													?		?			?			46	?		*41:01:01-41:01:02							
25	26												?		?			?				47									
						31			34						?			?													
		26	27										?		?			?			45		?								
													?		?			?				?									
													?		?			?				?									
													?		?			?			45		?								
													?		?			?				?									
													?		?			?				?									
						31							?	38	?			?				?									
											36	37			?			?				?									
			28	29		31							?		40			?				?									
			28	29		31							38		?			?				47									
						31							?		?			?				?	48								
													?	39	?			?				?									
25			28	29		31							?	38	?			?				?									
													37		39	?			?												
													?		?			?				46	?								
													?		?			?				?	48								
											36	?	38		?			43				?									
25						31							?	38	?			?				?									
		26	27										?		?			?	44			?		*64:01N							
						31							?		?			?				?									
			28										?		?			?				?	48								
						31			34				?	38	?			?				?									
						31							?		?			?				?									
		27											?		?			?			46	?									
25													?		?			?				?									
													?	38	?			?				?									
													?		39	?		?				?									
													?		39	?		?				?									
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. PCR product	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
														175	165									265
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
*74:01			3															19						
*75:01					5			8			11				16									
*76:01				4			7								16	17	18	19	20	21				
*77:01								8	9		11				16									
*78:01	1	2													16	17	18	19	20	21				
*79:01	1	2													16	17			20					
*80:01								8	9		11				16									
*81:01								8		10	11	12									22			
*82:01								8	9		11				16									
*83:01									9		11				16									
*84:01					5			8															24	
*85:01		2	3	4													17							
*86:01									9		11	12						18						
*87:01		2							9								17		19					
*88:01	1											12				17	18		20	21				
*89:01		2	3	4																				
*90:01	1	2	3	4	5		7																	
*91:01									9						16	17	18	19						
*92:01	1	2		4			7								16	17	18	19	20	21				
*93:01									9			12					17							
*94:01								8	9		11													
*95:01									9	10					15									
*96:01			3	4				8													22			
*97:01								8	9				13	14								23	24	
*98:01									9						16	17	18							
*99:01			3	4				8			11				15	16					22			
*100:01								8	9				13	14	15							23		
*101:01								8	9	10			13	14	15								24	
*102:01			3	4																			24	
*103:01								8	9	10													24	
*104:01	1	2													16	17	18	19	20	21				
*105:01								8	9		11				16									
*106:01					5			8	9	10			13										24	
*107:01	1		3			6	7									17			20					
*108:01									9		11				16									
*109:01									9		11	12												
*110:01	1		3				7									17			20					
*111:01	1	2													16	17	18	19	20	21				
*112:01								8	9						15								23	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24





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190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	110	120	70	165	115	Length of spec. PCR product
265	205		260				195	205				255			180		230	185	190	185	190	210	255	
																		285		245	245			280
																				270				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
									35			37			?		?					?		*74:01
												?			?		?					?		*75:01
					30				34			?			?		?					?	48	*76:01
												?			?	41	?					?		*77:01
							32					?			?		?					?		*78:01
			28			31						?			?		?					?		*79:01
		27										?			?		?				45	?		*80:01
								33				?			?		?					?		*81:01
												?			?	42	?					?		*82:01
												?			?		?				46	?		*83:01
						31						?			?		?					?		*84:01
			28			31						?			?		?						48	*85:01
	26	27	28	29	30							?			?		?			45	?			*86:01
						31						?	38		?		?					?		*87:01
	26		28									?			?		?					?		*88:01
						31						?			?		?					?		*89:01
						31						?			?		?					?		*90:01
		27			30				34			?			?		?					?	48	*91:01
												?			?		?					?		*92:01
			28			31						?			?		?					?		*93:01
												?			?	41	?					?		*94:01
												?	38	39	?		?					?		*95:01
												?			?		?			45	46	?		*96:01
25						31						?			?	42	?					?		*97:01
		27	28		30							?			?		?					?		*98:01
												?			?		?					?		*99:01
												?			?		?					?		*100:01
26												?			?		?					?		*101:01
						31						?		39	?		?					?		*102:01
						31						?	38		?		?					?		*103:01
																	43							*104:01
																						47		*105:01
						31																47		*106:01
			28			31		33							40									*107:01
		27										?		39	?		?		45	?		?		*108:01
			28									?			?		?					?		*109:01
			28			31		33				?			?		?				?	48		*110:01
												?			?		?	44				?		*111:01
												?	38		?		?					?		*112:01
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.



Length of spec. PCR product	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
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
														175		165								265
*113:01									9		11	12												
*114:01	1	2											14				17		19	20				23
*115:01								8	9	10	11	12												
*116:01								8	9						15	16								23
*117:01			3																					22
*118:01	1	2	3	4	5	6	7																	
*119:01											11				16		17	18	19	20	21			
*120:01N			3	4				8			11													22
*121:01			3	4				8			11													22
*122:01	1	2		4	5	6	7								16									
*123:01								8	9	10	11	12												
*124:01	1	2													16		17	18	19	20	21			
*125:01			3	4			7										17			20				
DPB1 allele <sup>4</sup>																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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

Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DPB1 typing.

In addition, wells number 2, 5, 8, 10 to 12, 17, 20, 24 to 26, 29, 34, 36 to 39, 41 and 46 to 48 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

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

<sup>2</sup>The codon, and in parenthesis the nucleotide, in the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exon or in the 1<sup>st</sup> intron, matching the specificity-determining 3'-end of the primer is given. Codon and nucleotide numbering as on the on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>3</sup>The codon, and in parenthesis the nucleotide, in the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Codon and nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The sequence of the DPB1\*02011 allele has been shown to be identical to DPB1\*02:01:02.

DPB1\*0701 has never been assigned.

DPB1\*1201 has never been assigned.

The sequence of the DPB1\*4201 allele has been shown to be identical to DPB1\*31:01.

The sequence of the DPB1\*4301 allele has been shown to be identical to DPB1\*28:01.

190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	110	120	70	165	115	Length of spec. PCR product	
265	205		260				195	205				255			180		230	185	190	185	190	210	255		210
																		285	245	245			280		
																			270						
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	29								?			?			?				?		*113:01	
25						31						?			?			?				47		*114:01	
												?			?			?		45		?		*115:01	
												?			?			?				?		*116:01	
			28					33				?			?			?		45		?		*117:01	
						31						?			?			?	44			?		*118:01	
			28	30				34				?			?			?				?		*119:01	
												?			?			?	44			?		*120:01N	
												38			?			?				47		*121:01	
						31						?			?			?				?		*122:01	
	26							33							?			?				47		*123:01	
															?			?				47		*124:01	
			28			31						?			?			?				?	48	*125:01	
																								DPB1 allele <sup>4</sup>	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

<sup>5</sup>Primer mix 14: Specific PCR fragment of 105 bp in the DPB1\*02:02, 05:01:01-05:01:02, 22:01, 38:01, 97:01, 100:01 and 101:01 allele. Specific PCR fragment of 175 bp in the DPB1\*30:01 and 54:01 alleles. Specific PCR fragments of 105 and 175 bp in the DPB1 \*21:01, 36:01, 54:01 and 114:01 alleles.

Primer mix 16: Specific PCR fragment of 80 bp in the DPB1\*03:01:01-03:01:02, 04:02, 14:01, 18:01, 20:01:01-20:01:02, 25:01, 28:01, 35:01:01-35:01:02, 45:01, 49:01, 50:01, 51:01, 53:01, 57:01, 59:01, 60:01, 61:01N, 68:01, 70:01, 73:01, 75:01, 76:01, 77:01, 78:01, 79:01, 80:01, 82:01, 83:01, 91:01, 92:01, 98:01, 104:01, 105:01, 108:01, 111:01, 116:01, 119:01, 122:01 and 124:01 alleles. Specific PCR fragment of 165 bp in the DPB1\*99:01 allele.

Primer mix 24: Specific PCR fragment of 195 bp in the DPB1\*101:01 allele. Specific PCR fragment of 265 bp in the DPB1\*05:01:01-05:01:02, 08:01, 16:01, 19:01, 22:01, 31:01, 38:01, 57:01, 63:01, 65:01, 68:01, 84:01, 97:01, 102:01, 103:01 and 106:01 alleles.

Primer mix 25: Specific PCR fragment of 190 bp in the DPB1\*05:01:01-05:01:02, 21:01, 22:01, 36:01, 38:01, 44:01, 58:01, 63:01, 97:01 and 114:01 alleles. Specific PCR fragment of 265 bp in the DPB1\*70:01 allele.

Primer mix 26: Specific PCR fragment of 75 bp in the DPB1\*06:01, 09:01, 17:01, 29:01, 44:01, 46:01, 64:01N, 86:01, 88:01 and 101:01 alleles. Specific PCR fragment of 205 bp in the DPB1\*123:01 allele.

Primer mix 28: Specific PCR fragment of 200 bp in the DPB1\*09:01, 10:01, 13:01, 17:01, 21:01, 26:01:01-26:01:02, 27:01, 30:01, 35:01:01-35:01:02, 36:01, 37:01, 54:01, 55:01, 58:01, 66:01, 79:01, 85:01, 86:01, 88:01, 93:01, 98:01, 107:01, 109:01, 110:01, 113:01, 117:01 and 125:01 alleles. Specific PCR fragment of 260 bp in the DPB1\*119:01 allele.

Primer mix 32: Specific PCR fragment of 75 bp in the DPB1\*78:01 allele. Specific PCR fragment of 195 bp in the DBB1\*11:01:01-11:01:02 alleles.

Primer mix 33: Specific PCR fragment of 140 bp in the DPB1\*13:01, 33:01, 81:01, 107:01, 110:01 and 117:01 alleles. Specific PCR fragment of 205 bp in the DBB1\*123:01 allele.

Primer mix 37: Specific PCR fragment of 185 bp in the DPB1\*15:01, 28:01, 40:01, 53:01 and 74:01 alleles. Specific PCR fragment of 255 bp in the DPB1\*04:02 and 59:01 alleles. The 3<sup>rd</sup> exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 37 matching the DPB1\*04:02 and 59:01 sequence motif in the 3<sup>rd</sup> exon may amplify other DPB1 alleles.

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Primer mix 40: Specific PCR fragment of 95 bp in the DPB1\*107:01 allele. Specific PCR fragment of 180 bp in the DPB1\*30:01 and 54:01 alleles. The 1<sup>st</sup> exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 40 matching the DPB1\*107:01 sequence motif in the 1<sup>st</sup> exon may amplify other DPB1 alleles.

Primer mix 41: Specific PCR fragment of 75 bp in the DPB1\*77:01 allele. Specific PCR fragment of 230 bp in the DPB1\*31:01, 34:01 and 94:01 alleles.

Primer mix 42: Specific PCR fragment of 140 bp in the DPB1\*97:01 allele. Specific PCR fragment of 185 bp in the DPB1\*32:01 allele. Specific PCR fragment of 285 bp in the DPB1\*82:01 allele.

Primer mix 43: Specific PCR fragment of 65 bp in the DPB1\*05:01:01, 05:01:02, 19:01 and 104:01 alleles. Specific PCR fragment of 190 bp in the DPB1\*34:01 and 62:01 alleles. The 4<sup>th</sup> exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 43 matching the DPB1\*05:01:01, 05:01:02, 19:01 and 104:01 sequence motif in the 4<sup>th</sup> exon may amplify other DPB1 alleles.

Primer mix 44: Specific PCR fragment of 185 bp in the DPB1\*111:01 and 120:01 alleles. Specific PCR fragment of 245 bp in the DPB1\*38:01 allele. Specific PCR fragment of 270 bp in the DPB1\*64:01N allele. Specific PCR fragment of 110 and 185 bp in the DPB1\*118:01 allele.

Primer mix 45: Specific PCR fragment of 120 bp in the DPB1\*46:01, 80:01, 86:01 and 108:01 alleles. Specific PCR fragment of 190 bp in the DPB1\*39:01, 49:01, 96:01 and 117:01 alleles. Specific PCR fragment of 245 bp in the DPB1\*115:01 allele.

Primer mix 46: Specific PCR fragment of 70 bp in the DPB1\* 69:01 allele. Specific PCR fragment of 210 bp in the DPB1\*96:01 allele. Specific PCR fragment of 70 and 210 bp in the DPB1\*41:01:01-41:01:02, 60:01 and 83:01 alleles.

Primer mix 47: Specific PCR fragment of 165 bp in the DPB1\* 44:01 and 114:01 alleles. Specific PCR fragment of 255 bp in the DPB1\*02:01:02-02:02, 04:01:01-04:01:02, 17:01, 23:01, 28:01, 30:01, 39:01, 55:01, 105:01, 106:01, 114:01, 121:01, 123:01 and 124:01 alleles. The 3<sup>rd</sup> exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 47 matching the DPB1\*02:01:02-02:02, 04:01:01-04:01:02, 17:01, 23:01, 28:01, 30:01, 39:01, 55:01, 105:01, 106:01, 114:01, 121:01, 123:01 and 124:01 sequence motif in the 3<sup>rd</sup> exon may amplify other DPB1 alleles.

Primer mix 48: Specific PCR fragment of 115 bp in the DPB1\*56:01, 66:01, 76:01, 92:01, 110:01 and 125:01 alleles. Specific PCR fragment of 210 bp in the DPB1\*61:01N allele. Specific PCR fragment of 280 bp in the DPB1\*85:01 allele.

'w', might be weakly amplified.

'?', nucleotide sequence information not available for the primer matching sequence.

CELL LINE VALIDATION SHEET																			
DPB1 SSP kit																			
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				200965501	201074702	200737503	200853204	200737505	200965506	200737507	200737508	200737509	200737510	201074711	200965512	200737513	201074714	200965515	201074716
	IHWC cell line	DPB1	Lot No.:																
1	9001 SA	*04:02		- - - - - - - +	+ - + - - - - +														
2	9280 LK707	*04:01		- - + + - - - +	- - + - - - - -														
3	9011 E4181324	*02:01	*04:01	- - + + - - - +	+ + + + - - - -														
4	9275 GU373	*04:02	*17:01	- - - - - - - +	+ - + + - - - +														
5	9009 KAS011	*04:01	*14:01	- - + + - - - +	- - + - - - - +														
6	9353 SM	*05:01		- - - - - - - +	+ - - - + + - -														
7	9020 QBL	*02:02		- - - - - - - +	+ + - - - + + -														
8	9025 DEU	*04:01		- - + + - - - +	- - + - - - - -														
9	9026 YAR	*04:01		- - + + - - - +	- - + - - - - -														
10	9107 LKT3	*05:01		- - - - - - - +	+ - - - + + - -														
11	9051 PITOUT	*04:01		- - + + - - - +	- - + - - - - -														
12	9052 DBB	*04:01		- - + + - - - +	- - + - - - - -														
13	9004 JESTHOM	*04:01		- - + + - - - +	- - + - - - - -														
14	9071 OLGA	*03:01	*04:02	+ + - - - - - +	+ - + - - - - +														
15	9075 DKB	*04:01		- - + + - - - +	- - + - - - - -														
16	9037 SWEIG007	*04:02		- - - - - - - +	+ - + - - - - +														
17	9282 CTM3953540	*01:01	*02:01	+ + + + + + + +	+ + + + - - - -														
18	9257 32367	*04:02	*18:01	- + - - - - - +	+ - + - - - - +														
19	9038 BM16	*02:01		- - - - - - - +	+ + + + - - - -														
20	9059 SLE005	*03:01		+ + - - - - - -	- - - - - - - +														
21	9064 AMALA	*04:02		- - - - - - - +	+ - + - - - - +														
22	9056 KOSE	*02:01	*13:01	+ - + - - - - +	+ + + + - - - -														
23	9124 IHL	*02:01		- - - - - - - +	+ + + + - - - -														
24	9035 JBUSH	*04:01		- - + + - - - +	- - + - - - - -														
25	9049 IBW9	*01:01		+ + + + + + + -	- - - - - - - -														
26	9285 WT49	*04:01		- - + + - - - +	- - + - - - - -														
27	9191 CH1007	*03:01	*13:01	+ + + - - - - +	- - - - - - - +														
28	9320 BEL5GB	*02:01	*04:01	- - + + - - - +	+ + + + - - - -														
29	9050 MOU	*02:01		- - - - - - - +	+ + + + - - - -														
30	9021 RSH	*01:01	*04:02	+ + + + + + + +	+ - + - - - - +														
31	9019 DUCAF	*02:02		- - - - - - - +	+ + - - + + + -														
32	9297 HAG	*02:01	*03:01	+ + - - - - - +	+ + + + - - - +														
33	9098 MT14B	*04:02		- - - - - - - +	+ - + - - - - +														
34	9104 DHIF	*04:01		- - + + - - - +	- - + - - - - -														
35	9302 SSTO	*04:01		- - + + - - - +	- - + - - - - -														
36	9024 KT17	*05:01		- - - - - - - +	+ - - - + + - -														
37	9065 HHKB	*04:01		- - + + - - - +	- - + - - - - -														
38	9099 LZL	*04:02		- - - - - - - +	+ - + - - - - +														
39	9315 CML	*04:01	*14:01	- - + + - - - +	- - + - - - - +														
40	9134 WHONP199	*05:01		- - - - - - - +	+ - - - + + - -														
41	9055 H0301	*05:01		- - - - - - - +	+ - - - + + - -														
42	9066 TAB089	*02:02		- - - - - - - +	+ + - - + + + -														
43	9076 T7526	*13:01		+ - + - - - - +	- - - - - - - -														
44	9057 TEM	*04:01		- - + + - - - +	- - + - - - - -														
45	9239 SHJO	*03:01	*04:02	+ + - - - - - +	+ - + - - - - +														
46	9013 SCHU	*04:02		- - - - - - - +	+ - + - - - - +														
47	9045 TUBO	*02:01	*04:02	- - - - - - - +	+ + + + - - - +														
48	9303 TER-ND	*02:01	*04:01	- - + + - - - +	+ + + + - - - -														



CELL LINE VALIDATION SHEET																			
DPB1 SSP kit																			
				Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				200737517	200737518	200737519	200737520	200737521	200737522	200737523	200737524	200737525	201074726	200737527	200965528	200737529	200737530	200737531	200737532
	IHWC cell line	DPB1	Lot No.:																
1	9001 SA	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*02:01	*04:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*04:02	*17:01	+	+	-	-	-	-	-	-	-	+	+	+	+	-	-	-
5	9009 KAS011	*04:01	*14:01	+	+	+	+	+	+	-	-	+	-	-	-	-	+	-	-
6	9353 SM	*05:01		-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
7	9020 QBL	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*05:01		-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
11	9051 PITOUT	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*03:01	*04:02	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*01:01	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
18	9257 32367	*04:02	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01	*13:01	+	-	-	+	-	-	-	-	-	-	-	+	-	-	+	-
23	9124 IHL	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
26	9285 WT49	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*03:01	*13:01	+	+	+	+	+	-	-	-	-	-	-	+	-	-	+	-
28	9320 BEL5GB	*02:01	*04:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*01:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
31	9019 DUCAF	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01	*03:01	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*05:01		-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
37	9065 HHKB	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*04:01	*14:01	+	+	+	+	+	+	-	-	-	-	-	-	-	+	-	-
40	9134 WHONP199	*05:01		-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
41	9055 H0301	*05:01		-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
42	9066 TAB089	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*13:01		+	-	-	+	-	-	-	-	-	-	-	+	-	-	+	-
44	9057 TEM	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*03:01	*04:02	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*04:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-



CELL LINE VALIDATION SHEET																					
DPB1 SSP kit																					
				Lot No.:	Well																
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
					201074733	200737534	200737535	200737536	200737537	200965538	200737539	200965540	200737541	200967842	200737543	200965544	200737545	201074746	200853247	201074748	
	IHWC cell line		DPB1																		
1	9001 SA		*04:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
3	9011 E4181324		*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
4	9275 GU373		*04:02	*17:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
5	9009 KAS011		*04:01	*14:01	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
6	9353 SM		*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
7	9020 QBL		*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
8	9025 DEU		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
9	9026 YAR		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
10	9107 LKT3		*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
11	9051 PITOUT		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
12	9052 DBB		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
13	9004 JESTHOM		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
14	9071 OLGA		*03:01	*04:02	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
16	9037 SWEIG007		*04:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*01:01	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
18	9257 32367		*04:02	*18:01	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-
19	9038 BM16		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
20	9059 SLE005		*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*04:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*02:01	*13:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
23	9124 IHL		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
24	9035 JBUSH		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
25	9049 IBW9		*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
27	9191 CH1007		*03:01	*13:01	+	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-
28	9320 BEL5GB		*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
29	9050 MOU		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
30	9021 RSH		*01:01	*04:02	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
31	9019 DUCAF		*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
32	9297 HAG		*02:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
33	9098 MT14B		*04:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
35	9302 SSTO		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
36	9024 KT17		*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
37	9065 HHKB		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
38	9099 LZL		*04:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*04:01	*14:01	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
40	9134 WHONP199		*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
41	9055 H0301		*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
42	9066 TAB089		*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
43	9076 T7526		*13:01		+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
44	9057 TEM		*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
45	9239 SHJO		*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	+	-
46	9013 SCHU		*04:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*02:01	*04:02	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
48	9303 TER-ND		*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-

## CERTIFICATE OF ANALYSIS

### Olerup SSP® DPB1 SSP

Product number: 101.311-24u/04u – without *Taq* pol.  
Lot number: 32K  
Expiry date: 2012-September-01  
Number of tests: 24 tests – Product No. 101.311-24u  
4 tests – Product No. 101.311-04u  
Number of wells per test: 48

#### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-655-01	17	2007-375-17	33	2010-747-33
2	2010-747-02	18	2007-375-18	34	2007-375-34
3	2007-375-03	19	2007-375-19	35	2007-375-35
4	2008-532-04	20	2007-375-20	36	2007-375-36
5	2007-375-05	21	2007-375-21	37	2007-375-37
6	2009-655-06	22	2007-375-22	38	2009-655-38
7	2007-375-07	23	2007-375-23	39	2007-375-39
8	2007-375-08	24	2007-375-24	40	2009-655-40
9	2007-375-09	25	2007-375-25	41	2007-375-41
10	2007-375-10	26	2010-747-26	42	2009-678-42
11	2010-747-11	27	2007-375-27	43	2007-375-43
12	2009-655-12	28	2009-655-28	44	2009-655-44
13	2007-375-13	29	2007-375-29	45	2007-375-45
14	2010-747-14	30	2007-375-30	46	2010-747-46
15	2009-655-15	31	2007-375-31	47	2008-532-47
16	2010-747-16	32	2007-375-32	48	2010-747-48

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

No DNAs carrying the alleles to be amplified by primer solutions 41, 42, 44 and 46 were available. In primer solutions 41, 42 and 46 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solution 44 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 15, 16, 25, 26, 32, 33 and 38 one or two 5'-primers were not possible to test. In primer solutions 8, 11, 24, 28 and 48 one 3'-primer was not possible to test. Additional primers in primer solutions 14, 38, 40, 43, 47 and 48 were tested by separately adding one 5'-primers or one 3'-primer.

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

**Date of approval:** 2011-February-24

**Approved by:**

**Quality Control, Supervisor**



## Declaration of Conformity

**Product name:** *Olerup* SSP® DPB1  
**Product number:** 101.311-24u/04u  
**Lot number:** 32K

**Intended use:** DPB1 high resolution histocompatibility testing

**Manufacturer:** *Olerup* SSP AB  
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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 Construction File is maintained at *Olerup* SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

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

Saltsjöbaden, Sweden  
2011-February-24

Olle Olerup  
Managing Director





Lot No.: **32K**

Lot-specific Information

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

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