

Olerup SSP[®] DPB1

Product number:	101.311-24/04 – including <i>Taq</i> pol.
Lot number:	09M
Expiry date:	2013-November-01
Number of tests:	24 tests – Product No. 101.311-24 4 tests – Product No. 101.311-04
Number of wells per test:	48
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 09M.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] DPB1 LOT

The DPB1 specificity and interpretation tables have been updated for the DPB1 alleles described since the previous *Olerup SSP[®] DPB1* lot was made (**Lot No. 32K**).

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

Well	5'-primer	3'-primer	rationale
16	Added	Added	Primer pair added for the DPB1*127:01 allele.
23	Added	Added	Primer pair added for the DPB1*127:01 allele.
32	Added	-	Primer added for the DPB1*130:01 allele.
34	-	-	Exchanged positive control primer pair.
37	-	-	Exchanged positive control primer pair.
42	-	Added	Primer added for the DPB1*128:01 allele.
46	-	-	Exchanged positive control primer pair.
47	-	-	Exchanged positive control primer pair.
48	-	-	Exchanged positive control primer pair.

Changes in revision R01 compared to R00:

- Corrected foot notes for primer mixes 31 and 40: Primer mixes 31, 32 and 40 may give rise to non-specific amplifications.

Changes in revision R02 compared to R01:

- Primer mix 37 may give a lower yield of specific PCR product in the DPB1*15:01 and DPB1*74:01 alleles.

Changes in revision R03 compared to R02:

- A foot note has been added to the specificity table, stating that we assume that unknown sequences in the 1st, 3rd and 4th exon and in the introns are conserved within loci and within allelic groups. Primer mixes 37, 40, 43 and 47 may thus amplify other DPB1 alleles.

Change in revision R04 compared to R03:

- The DPB1*31:01 allele is not amplified by primer mix 4. This has been corrected in the Specificity and Interpretation Tables.

PRODUCT DESCRIPTION

DPB1 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DPB1*01:01 to DPB1*132:01 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. ‘09M’.

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*132:01**, recognized by the HLA Nomenclature Committee in January 2011¹ 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.

¹DPB1 alleles listed on the IMGT/HLA web page 2011-January-14, release 3.3.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 149 alleles generate 130 amplification patterns that can be combined in 8515 homozygous and heterozygous combinations. 2008 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

+++++++ +---+---+ ------+ ------+ ------+ ------+	*19:01, *127:01 = *106:01, *127:01
+++++++ +---+---+ +-----+ ------+ ------+ ------+	*19:01, *26:01:01 = *26:01:01, *106:01 = *26:01:02, *106:01
+++++++ +---+---+ ------+ ------+ ------+ ------+	*19:01, *118:01 = *106:01, *118:01
+++++++ +---+---+ ------+ ------+ ------+ +-----+	*77:01, *127:01 = *94:01, *127:01
+++++++ +---+---+ ------+ +-----+ ------+ ------+	*01:01:01, *38:01 = *05:01:01, *118:01 = *38:01, *118:01
+++++++ +---+---+ ------+ ------+ ------+ ------+	*01:01:01, *116:01 = *116:01, *127:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*08:01, *26:01:01 = *08:01, *26:01:02
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*01:01:01, *99:01 = *99:01, *122:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*26:01:01, *75:01 = *26:01:02, *75:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*51:01, *127:01 = *126:01, *127:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*51:01, *118:01 = *120:01N, *122:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*01:01:01, *51:01 = *122:01, *126:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*01:01:01, *120:01N = *118:01, *120:01N = *118:01, *126:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*61:01N, *65:01 = *65:01, *92:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*03:01:01, *65:01 = *65:01, *104:01 = *65:01, *124:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*26:01:01, *68:01 = *26:01:02, *68:01 = *65:01, *79:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*39:01, *127:01 = *49:01, *127:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*01:01:01, *49:01 = *39:01, *122:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*65:01, *127:01 = *68:01, *127:01 = *84:01, *127:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*40:01, *127:01 = *53:01, *127:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*01:01:01, *68:01 = *65:01, *122:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*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
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*01:01:01, *65:01 = *01:01:01, *84:01 = *65:01, *90:01
+++++++ +---+---+ +-----+ -+---+---+ ------+ ------+	*17:01, *127:01 = *127:01, *131:01
+++++++ +---+---+ +-----+ -+---+---+ ------+ ------+	*01:01:01, *64:01N = *06:01, *118:01 = *64:01N, *118:01
+++++++ +---+---+ +-----+ -+---+---+ ------+ ------+	*17:01, *118:01 = *118:01, *131:01
+++++++ +---+---+ +-----+ +-----+ ------+ ------+	*21:01, *127:01 = *36:01, *127:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*26:01:01, *73:01 = *26:01:02, *73:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*61:01N, *127:01 = *92:01, *127:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*03:01:01, *127:01 = *104:01, *127:01 = *124:01, *127:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*61:01N, *118:01 = *92:01, *118:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*01:01:01, *111:01 = *03:01:01, *118:01 = *104:01, *118:01 = *111:01, *118:01 = *118:01, *124:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*01:01:01, *61:01N = *01:01:01, *92:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*35:01:02, *127:01 = *127:01, *132:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*35:01:02, *118:01 = *118:01, *132:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*01:01:01, *35:01:02 = *01:01:01, *132:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*26:01:01, *57:01 = *26:01:02, *57:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*13:01, *127:01 = *107:01, *127:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*26:01:01, *127:01 = *26:01:02, *127:01 = *79:01, *127:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*13:01, *122:01 = *107:01, *122:01
+++++++ -+---+---+ +-----+ ------+ ------+ ------+	*01:01:01, *79:01 = *26:01:01, *122:01 = *26:01:02, *122:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*01:01:01, *127:01 = *89:01, *127:01 = *90:01, *127:01 = *122:01, *127:01 = *127:01, *127:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*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
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*01:01:01, *118:01 = *89:01, *118:01 = *90:01, *118:01 = *118:01, *118:01
+++++++ -+---+---+ ------+ ------+ ------+ ------+	*01:01:01, *89:01 = *01:01:01, *90:01



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+++++---	+---+---	+---+---	-----+	-----+	-----+	*19:01, *56:01 = *56:01, *106:01
+++++---	+---+---	-----+	-----+	-----+	-----+	*19:01, *90:01 = *90:01, *106:01
+++++---	+---+---	+---+---	+++++---	-----+	-----+	*17:01, *90:01 = *90:01, *131:01
+++++---	-----+	+---+---	-----+	-----+	-----+	*61:01N, *90:01 = *90:01, *92:01
+++++---	-----+	+---+---	-----+	-----+	-----+	*03:01:01, *90:01 = *90:01, *104:01 = *90:01, *124:01
+++++---	-----+	+---+---	-----+	-----+	-----+	*35:01:02, *90:01 = *90:01, *132:01
+++++---	-----+	-----+	-----+	-----+	-----+	*89:01, *90:01 = *90:01, *90:01
+++++---	+---+---	+---+---	+---+---	-----+	-----+	*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
+++++---	+---+---	+---+---	-----+	-----+	-----+	*02:01:02, *26:01:01 = *02:01:02, *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, *128:01 = *26:01:02, *128:01
+++++---	+---+---	+---+---	-----+	-----+	-----+	*26:01:01, *120:01N = *26:01:02, *120:01N
+++++---	+---+---	+---+---	-----+	-----+	-----+	*26:01:01, *121:01 = *26:01:02, *121:01
+++++---	-----+	+---+---	-----+	-----+	-----+	*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, *41:01:01 = *26:01:02, *41:01:01
+++++---	+---+---	+---+---	-----+	-----+	-----+	*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, *129:01 = *26:01:02, *129:01
+++++---	+---+---	+---+---	+---+---	-----+	-----+	*26:01:01, *64:01N = *26:01:02, *64:01N
+++++---	+---+---	+---+---	+---+---	-----+	-----+	*17:01, *26:01:01 = *17:01, *26:01:02 = *26:01:01, *131:01
+++++---	+---+---	+---+---	-----+	-----+	-----+	*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, *130:01 = *26:01:02, *130:01
+++++---	+---+---	+---+---	+---+---	-----+	-----+	*26:01:01, *98:01 = *26:01:02, *98:01
+++++---	+---+---	+---+---	-----+	-----+	-----+	*26:01:01, *69:01 = *26:01:02, *69:01



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+++++--	+-----	+-----	-----	-----	-----	*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
+++++--	+-----	+-----	-----	-----	-----	*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
+++++--	+-----	+-----	-----	-----	-----	*03:01:01, *26:01:01 = *26:01:01, *104:01 = *26:01:01, *124:01 = *26:01:02, *124:01
+++++--	+-----	+-----	-----	-----	-----	*03:01:01, *26:01:02 = *26:01:02, *104:01
+++++--	+-----	+-----	-----	-----	-----	*26:01:01, *35:01:01 = *26:01:02, *35:01:01
+++++--	+-----	+-----	-----	-----	-----	*26:01:01, *35:01:02 = *26:01:01, *132:01
+++++--	+-----	+-----	-----	-----	-----	*26:01:02, *35:01:02 = *26:01:02, *132:01
+++++--	+-----	+-----	-----	-----	-----	*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
+++++--	+-----	+-----	-----	-----	-----	*17:01, *56:01 = *56:01, *131:01
+++++--	+-----	+-----	-----	-----	-----	*03:01:01, *125:01 = *27:01, *92:01 = *35:01:02, *56:01 = *56:01, *132:01 = *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
+++++--	+-----	+-----	-----	-----	-----	*11:01:01, *92:01 = *56:01, *78:01
+++++--	+-----	+-----	-----	-----	-----	*03:01:01, *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
+++++--	+-----	+-----	-----	-----	-----	*03:01:01, *99:01 = *99:01, *104:01 = *99:01, *124:01
+++++--	+-----	+-----	-----	-----	-----	*03:01:01, *128:01 = *104:01, *128:01 = *124:01, *128:01
+++++--	+-----	+-----	-----	-----	-----	*03:01:01, *120:01N = *104:01, *120:01N = *111:01, *120:01N = *111:01, *126:01 = *120:01N, *124:01
+++++--	+-----	+-----	-----	-----	-----	*03:01:01, *126:01 = *104:01, *126:01
+++++--	+-----	+-----	-----	-----	-----	*03:01:01, *121:01 = *104:01, *121:01 = *121:01, *124:01



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++++---+ -+----- +-----+ -+-----+ -+-----+ -+-----+ -+-----+	*52:01, *121:01 = *52:01, *126:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *96:01 = *96:01, *104:01 = *96:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *39:01 = *39:01, *104:01 = *39:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *40:01 = *40:01, *104:01 = *40:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *66:01 = *61:01N, *66:01 = *66:01, *104:01 = *66:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *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
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *31:01 = *31:01, *104:01 = *31:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *102:01 = *102:01, *104:01 = *102:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*27:01, *61:01N = *61:01N, *85:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *27:01 = *27:01, *104:01 = *27:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *85:01 = *85:01, *104:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *89:01 = *89:01, *104:01 = *89:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*27:01, *132:01 = *89:01, *132:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*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, *130:01 = *107:01, *130:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*13:01, *20:01:01 = *20:01:01, *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, *132:01 = *107:01, *132:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*13:01, *25:01 = *25:01, *107:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*13:01, *79:01 = *79:01, *107:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*13:01, *52:01 = *52:01, *107:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *110:01 = *61:01N, *110:01 = *104:01, *110:01 = *110:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *33:01 = *33:01, *104:01 = *33:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *117:01 = *104:01, *117:01 = *117:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *11:01:01 = *11:01:01, *104:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *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
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*68:01, *122:01 = *84:01, *122:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*17:01, *122:01 = *122:01, *131:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*61:01N, *122:01 = *92:01, *122:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *122:01 = *104:01, *122:01 = *122:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*35:01:02, *122:01 = *122:01, *132:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*19:01, *92:01 = *92:01, *106:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*68:01, *92:01 = *84:01, *92:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*77:01, *92:01 = *92:01, *94:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*17:01, *92:01 = *92:01, *131:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*35:01:02, *92:01 = *92:01, *132:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *76:01 = *14:01, *92:01 = *61:01N, *76:01 = *76:01, *92:01 = *76:01, *104:01 = *76:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *92:01 = *61:01N, *92:01 = *92:01, *92:01 = *92:01, *104:01 = *92:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *24:01 = *24:01, *104:01 = *24:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *51:01 = *51:01, *104:01 = *51:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *49:01 = *49:01, *104:01 = *49:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *53:01 = *53:01, *104:01 = *53:01, *124:01
++++---+ -+-----+ ++++++--- -+-----+ -+-----+ -+-----+ -+-----+	*03:01:01, *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



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++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *19:01 = *19:01, *104:01
++-----	++-----	++++-----	-----	-----	-----	*19:01, *25:01 = *25:01, *106:01
++-----	++-----	++++-----	-----	-----	-----	*19:01, *79:01 = *79:01, *106:01
++-----	++-----	++++-----	-----	-----	-----	*19:01, *52:01 = *52:01, *106:01
++-----	++-----	++++-----	-----	-----	-----	*50:01, *77:01 = *50:01, *94:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *08:01 = *08:01, *104:01 = *08:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *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
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *68:01 = *03:01:01, *84:01 = *68:01, *104:01 = *68:01, *124:01 = *84:01, *104:01 = *84:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*68:01, *132:01 = *84:01, *132:01
++-----	++-----	++++-----	-----	-----	-----	*25:01, *68:01 = *25:01, *84:01
++-----	++-----	++++-----	-----	-----	-----	*68:01, *79:01 = *79:01, *84:01
++-----	++-----	++++-----	-----	-----	-----	*50:01, *68:01 = *50:01, *84:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *73:01 = *73:01, *104:01 = *73:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *57:01 = *57:01, *104:01 = *57:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *50:01 = *50:01, *104:01
++-----	++-----	++++-----	-----	-----	-----	*35:01:02, *50:01 = *50:01, *132:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *46:01 = *46:01, *104:01 = *46:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *123:01 = *104:01, *123:01 = *123:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *32:01 = *32:01, *104:01 = *32:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *115:01 = *104:01, *115:01 = *115:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *47:01 = *47:01, *104:01 = *47:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *71:01 = *71:01, *104:01 = *71:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *48:01 = *48:01, *104:01 = *48:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *16:01 = *16:01, *104:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *101:01 = *101:01, *104:01 = *101:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *22:01 = *22:01, *104:01 = *22:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *103:01 = *103:01, *104:01 = *103:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *80:01 = *80:01, *104:01 = *80:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*77:01, *78:01 = *78:01, *94:01
++-----	++-----	++++-----	-----	-----	-----	*77:01, *111:01 = *94:01, *111:01
++-----	++-----	++++-----	-----	-----	-----	*61:01N, *77:01 = *61:01N, *94:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *77:01 = *03:01:01, *94:01 = *77:01, *104:01 = *77:01, *124:01 = *94:01, *104:01 = *94:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *82:01 = *82:01, *104:01 = *82:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *60:01 = *60:01, *104:01 = *60:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *23:01 = *23:01, *104:01 = *23:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*77:01, *132:01 = *94:01, *132:01
++-----	++-----	++++-----	-----	-----	-----	*23:01, *25:01 = *52:01, *105:01
++-----	++-----	++++-----	-----	-----	-----	*25:01, *77:01 = *25:01, *94:01
++-----	++-----	++++-----	-----	-----	-----	*77:01, *79:01 = *79:01, *94:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *100:01 = *100:01, *104:01 = *100:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *97:01 = *97:01, *104:01 = *97:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *38:01 = *05:01:01, *111:01 = *38:01, *104:01 = *38:01, *111:01 = *38:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *05:01:01 = *05:01:01, *104:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *112:01 = *104:01, *112:01 = *112:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *116:01 = *104:01, *116:01 = *116:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*25:01, *112:01 = *52:01, *116:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *63:01 = *63:01, *104:01 = *63:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *62:01 = *62:01, *104:01 = *62:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *81:01 = *81:01, *104:01 = *81:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *41:01:01 = *41:01:01, *104:01 = *41:01:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *95:01 = *95:01, *104:01 = *95:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *86:01 = *86:01, *104:01 = *86:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *113:01 = *104:01, *113:01 = *113:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *109:01 = *104:01, *109:01 = *109:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *108:01 = *104:01, *108:01 = *108:01, *124:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *129:01 = *104:01, *129:01 = *124:01, *129:01
++-----	++-----	++++-----	-----	-----	-----	*03:01:01, *59:01 = *59:01, *104:01



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++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *83:01 = *83:01, *104:01 = *83:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*29:01, *36:01 = *36:01, *44:01
++-----	+-----+	+++++---	-----	-----+	-----+	*17:01, *114:01 = *114:01, *131:01
++-----	+-----+	+++++---	-----	-----+	-----+	*17:01, *78:01 = *78:01, *131:01
++-----	+-----+	+++++---	-----	-----+	-----+	*17:01, *111:01 = *111:01, *131:01
++-----	+-----+	+++++---	-----	-----+	-----+	*17:01, *61:01N = *61:01N, *131:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *17:01 = *17:01, *104:01 = *17:01, *124:01 = *124:01, *131:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *131:01 = *104:01, *131:01
++-----	+-----+	+++++---	-----	-----+	-----+	*06:01, *132:01 = *20:01:01, *88:01
++-----	+-----+	+++++---	-----	-----+	-----+	*06:01, *78:01 = *29:01, *130:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *64:01N = *06:01, *111:01 = *64:01N, *104:01 = *64:01N, *111:01 = *64:01N, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *06:01 = *06:01, *104:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *93:01 = *93:01, *104:01 = *93:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*17:01, *25:01 = *25:01, *131:01
++-----	+-----+	+++++---	-----	-----+	-----+	*17:01, *79:01 = *79:01, *131:01
++-----	+-----+	+++++---	-----	-----+	-----+	*17:01, *52:01 = *52:01, *131:01
++-----	+-----+	+++++---	-----	-----+	-----+	*37:01, *87:01 = *52:01, *93:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *36:01 = *36:01, *104:01 = *36:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *21:01 = *21:01, *104:01 = *21:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *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
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *34:01 = *34:01, *104:01 = *34:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *58:01 = *58:01, *104:01 = *58:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *98:01 = *98:01, *104:01 = *98:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *91:01 = *91:01, *104:01 = *91:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *130:01 = *20:01:01, *78:01 = *78:01, *130:01 = *104:01, *130:01 = *124:01, *130:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *69:01 = *69:01, *104:01 = *69:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *20:01:01 = *20:01:01, *104:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *55:01 = *55:01, *104:01 = *55:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *87:01 = *87:01, *104:01 = *87:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *18:01 = *18:01, *104:01
++-----	+-----+	+++++---	-----	-----+	-----+	*25:01, *119:01 = *79:01, *119:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *119:01 = *104:01, *119:01 = *119:01, *124:01 = *119:01, *132:01
++-----	+-----+	+++++---	-----	-----+	-----+	*29:01, *114:01 = *44:01, *114:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *44:01 = *44:01, *104:01 = *44:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*25:01, *88:01 = *29:01, *79:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *88:01 = *88:01, *104:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *29:01 = *29:01, *104:01 = *29:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *10:01 = *10:01, *104:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *37:01 = *37:01, *104:01 = *37:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*35:01:02, *114:01 = *114:01, *132:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *114:01 = *70:01, *114:01 = *104:01, *114:01 = *114:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *54:01 = *54:01, *104:01 = *54:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *70:01 = *70:01, *104:01 = *70:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *35:01:01 = *35:01:01, *104:01 = *35:01:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*35:01:02, *52:01 = *52:01, *132:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *79:01 = *25:01, *35:01:02 = *25:01, *132:01 = *79:01, *104:01 = *79:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*35:01:02, *78:01 = *78:01, *132:01
++-----	+-----+	+++++---	-----	-----+	-----+	*35:01:02, *111:01 = *111:01, *132:01
++-----	+-----+	+++++---	-----	-----+	-----+	*35:01:02, *61:01N = *61:01N, *132:01
++-----	+-----+	+++++---	-----	-----+	-----+	*35:01:02, *124:01 = *124:01, *132:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *35:01:02 = *03:01:01, *132:01 = *35:01:02, *104:01 = *104:01, *132:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *67:01 = *67:01, *104:01 = *67:01, *124:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *45:01 = *45:01, *104:01
++-----	+-----+	+++++---	-----	-----+	-----+	*03:01:01, *52:01 = *52:01, *104:01 = *52:01, *124:01



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++-----	-----+	+++++---	-----+	-----+	-----+	*03:01:01, *25:01 = *25:01, *104:01 = *25:01, *124:01
++-----	-----+	+++++---	-----+	-----+	-----+	*03:01:01, *78:01 = *78:01, *78:01 = *78:01, *104:01 = *78:01, *124:01
++-----	-----+	+++++---	-----+	-----+	-----+	*03:01:01, *111:01 = *104:01, *111:01 = *111:01, *111:01 = *111:01, *124:01
++-----	-----+	+++++---	-----+	-----+	-----+	*03:01:01, *61:01N = *61:01N, *61:01N = *61:01N, *104:01 = *61:01N, *124:01
++-----	-----+	+++++---	-----+	-----+	-----+	*03:01:01, *124:01 = *104:01, *124:01 = *124:01, *124:01
++-----	-----+	+++++---	-----+	-----+	-----+	*03:01:01, *104:01 = *104:01, *104:01
++-----	-----+	+++++---	-----+	-----+	-----+	*35:01:02, *79:01 = *79:01, *132:01
++-----	-----+	+++++---	-----+	-----+	-----+	*35:01:02, *132:01 = *132:01, *132:01
++-----	-----+	+++++---	-----+	-----+	-----+	*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
+++++++	-----+	+++++---	-----+	-----+	-----+	*13:01, *128:01 = *107:01, *128:01
+++++++	-----+	+++++---	-----+	-----+	-----+	*13:01, *120:01N = *107:01, *120:01N
+++++++	-----+	+++++---	-----+	-----+	-----+	*13:01, *126:01 = *107:01, *126:01
+++++++	-----+	+++++---	-----+	-----+	-----+	*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



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+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *33:01 = *33:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *41:01:01 = *41:01:01, *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, *129:01 = *107:01, *129:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*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, *131:01 = *107:01, *131:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*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
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *58:01 = *58:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *55:01 = *55:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *119:01 = *107:01, *119:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *44:01 = *44:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *29:01 = *29:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *88:01 = *88:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*10:01, *13:01 = *10:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *37:01 = *37:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *54:01 = *54:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *70:01 = *70:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *35:01:01 = *35:01:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *35:01:02 = *35:01:02, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *45:01 = *45:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*11:01:01, *13:01 = *11:01:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *67:01 = *67:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *74:01 = *74:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *117:01 = *107:01, *117:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *110:01 = *107:01, *110:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*13:01, *107:01 = *107:01, *107:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *110:01 = *110:01, *131:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*19:01, *44:01 = *44:01, *106:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*19:01, *29:01 = *29:01, *106:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*19:01, *37:01 = *37:01, *106:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*22:01, *29:01 = *22:01, *44:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*29:01, *97:01 = *44:01, *97:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*29:01, *38:01 = *38:01, *44:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*05:01:01, *29:01 = *05:01:01, *44:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*29:01, *63:01 = *44:01, *63:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*21:01, *29:01 = *21:01, *44:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *44:01 = *44:01, *131:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*29:01, *58:01 = *44:01, *55:01 = *44:01, *58:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *29:01 = *29:01, *131:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *37:01 = *37:01, *131:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*29:01, *119:01 = *88:01, *119:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*35:01:02, *44:01 = *70:01, *88:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*29:01, *70:01 = *44:01, *70:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*29:01, *44:01 = *44:01, *44:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*19:01, *27:01 = *27:01, *106:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*19:01, *89:01 = *89:01, *106:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*27:01, *76:01 = *76:01, *85:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*27:01, *125:01 = *85:01, *125:01 = *89:01, *125:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*87:01, *121:01 = *87:01, *126:01
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *27:01 = *17:01, *89:01 = *27:01, *131:01 = *89:01,



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-----	*131:01
-----	*27:01, *93:01 = *89:01, *93:01
-----	*27:01, *36:01 = *36:01, *89:01
-----	*21:01, *27:01 = *21:01, *89:01
-----	*27:01, *30:01 = *30:01, *89:01
-----	*27:01, *98:01 = *89:01, *98:01
-----	*27:01, *58:01 = *58:01, *89:01
-----	*27:01, *55:01 = *55:01, *89:01
-----	*27:01, *119:01 = *89:01, *119:01
-----	*27:01, *66:01 = *66:01, *85:01
-----	*09:01, *27:01 = *09:01, *89:01
-----	*10:01, *27:01 = *10:01, *89:01
-----	*27:01, *54:01 = *54:01, *89:01
-----	*27:01, *35:01:01 = *35:01:01, *89:01
-----	*27:01, *35:01:02 = *35:01:02, *89:01
-----	*27:01, *85:01 = *85:01, *89:01
-----	*27:01, *27:01 = *27:01, *89:01
-----	*19:01, *36:01 = *36:01, *106:01
-----	*19:01, *130:01 = *106:01, *130:01
-----	*19:01, *87:01 = *87:01, *106:01
-----	*68:01, *130:01 = *84:01, *130:01
-----	*20:01:01, *68:01 = *20:01:01, *84:01
-----	*18:01, *68:01 = *18:01, *84:01
-----	*77:01, *130:01 = *94:01, *130:01
-----	*20:01:01, *77:01 = *20:01:01, *94:01
-----	*18:01, *77:01 = *18:01, *94:01
-----	*17:01, *36:01 = *36:01, *131:01
-----	*17:01, *130:01 = *130:01, *131:01
-----	*17:01, *87:01 = *87:01, *131:01
-----	*36:01, *55:01 = *36:01, *58:01
-----	*21:01, *36:01 = *36:01, *36:01
-----	*20:01:01, *130:01 = *130:01, *130:01
-----	*19:01, *65:01 = *65:01, *106:01
-----	*60:01, *65:01 = *65:01, *83:01
-----	*17:01, *65:01 = *65:01, *131:01
-----	*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, *128:01 = *106:01, *128:01
-----	*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
-----	*72:01, *75:01 = *73:01, *126:01
-----	*17:01, *125:01 = *125:01, *131:01
-----	*14:01, *125:01 = *76:01, *125:01
-----	*02:01:02, *99:01 = *48:01, *99:01
-----	*39:01, *46:01 = *46:01, *126:01
-----	*32:01, *39:01 = *115:01, *128:01
-----	*02:01:02, *128:01 = *32:01, *126:01 = *32:01, *128:01
-----	*02:01:02, *96:01 = *39:01, *41:01:01 = *41:01:01, *96:01 = *96:01, *115:01
-----	*39:01, *115:01 = *115:01, *126:01
-----	*95:01, *121:01 = *95:01, *126:01
-----	*103:01, *121:01 = *103:01, *126:01
-----	*71:01, *121:01 = *71:01, *126:01
-----	*17:01, *99:01 = *99:01, *131:01
-----	*06:01, *120:01N = *64:01N, *120:01N = *64:01N, *126:01



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---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *128:01 = *128:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *120:01N = *120:01N, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *121:01 = *121:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*39:01, *86:01 = *86:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*38:01, *128:01 = *97:01, *120:01N
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*05:01:01, *128:01 = *97:01, *126:01 = *97:01, *128:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*05:01:01, *120:01N = *38:01, *120:01N = *38:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*99:01, *112:01 = *116:01, *121:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*99:01, *116:01 = *116:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*77:01, *99:01 = *94:01, *99:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*60:01, *99:01 = *83:01, *99:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*112:01, *121:01 = *112:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*39:01, *108:01 = *72:01, *80:01 = *108:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*39:01, *80:01 = *80:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*60:01, *121:01 = *83:01, *121:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*59:01, *128:01 = *72:01, *82:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*60:01, *128:01 = *83:01, *128:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*82:01, *126:01 = *82:01, *128:01 = *105:01, *128:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*60:01, *120:01N = *83:01, *120:01N
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*39:01, *60:01 = *39:01, *83:01 = *60:01, *96:01 = *83:01, *96:01 = *96:01, *105:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*60:01, *126:01 = *83:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*31:01, *77:01 = *31:01, *105:01 = *77:01, *102:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*40:01, *60:01 = *40:01, *83:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*58:01, *121:01 = *58:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*63:01, *121:01 = *63:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*34:01, *121:01 = *34:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*62:01, *121:01 = *62:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*31:01, *94:01 = *94:01, *102:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *96:01 = *96:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *39:01 = *39:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *40:01 = *40:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*39:01, *69:01 = *69:01, *96:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*40:01, *99:01 = *53:01, *99:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*39:01, *99:01 = *49:01, *99:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*51:01, *99:01 = *99:01, *99:01 = *99:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*28:01, *126:01 = *53:01, *72:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*40:01, *51:01 = *53:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*39:01, *51:01 = *49:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*67:01, *121:01 = *67:01, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*126:01, *128:01 = *128:01, *128:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*120:01N, *120:01N = *120:01N, *126:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*39:01, *53:01 = *40:01, *49:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*39:01, *96:01 = *96:01, *96:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *72:01 = *72:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *66:01 = *66:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *31:01 = *31:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *102:01 = *102:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*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
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *33:01 = *33:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*02:01:02, *117:01 = *115:01, *117:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*33:01, *60:01 = *33:01, *83:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *74:01 = *74:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*17:01, *117:01 = *117:01, *131:01
---+---+ +---+--- +---+--- +---+--- +---+--- +---+---	*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



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----	++++	-----	-----	-----	-----	*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
----	++++	-----	-----	-----	-----	*17:01, *76:01 = *76:01, *131:01
----	++++	-----	-----	-----	-----	*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
----	++++	-----	-----	-----	-----	*02:01:02, *49:01 = *49:01, *115:01 = *51:01, *115:01
----	++++	-----	-----	-----	-----	*17:01, *24:01 = *24:01, *131:01
----	++++	-----	-----	-----	-----	*17:01, *51:01 = *51:01, *131:01
----	++++	-----	-----	-----	-----	*49:01, *86:01 = *51:01, *86:01
----	++++	-----	-----	-----	-----	*24:01, *60:01 = *24:01, *83:01
----	++++	-----	-----	-----	-----	*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
----	++++	-----	-----	-----	-----	*51:01, *60:01 = *51:01, *83:01
----	++++	-----	-----	-----	-----	*28:01, *80:01 = *53:01, *108:01
----	++++	-----	-----	-----	-----	*28:01, *77:01 = *28:01, *94:01
----	++++	-----	-----	-----	-----	*28:01, *105:01 = *53:01, *59:01
----	++++	-----	-----	-----	-----	*53:01, *77:01 = *53:01, *94:01
----	++++	-----	-----	-----	-----	*53:01, *60:01 = *53:01, *83:01
----	++++	-----	-----	-----	-----	*17:01, *49:01 = *49:01, *131:01
----	++++	-----	-----	-----	-----	*17:01, *53:01 = *53:01, *131:01
----	++++	-----	-----	-----	-----	*17:01, *28:01 = *28:01, *131:01
----	++++	-----	-----	-----	-----	*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, *41:01:01 = *41:01:01, *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 = *41:01:01, *68:01
----	++++	-----	-----	-----	-----	*02:01:02, *68:01 = *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, *41:01:01 = *41:01:01, *84:01
----	++++	-----	-----	-----	-----	*02:01:02, *08:01 = *02:01:02, *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, *129:01 = *106:01, *129:01
----	++++	-----	-----	-----	-----	*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



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-----+ +-----+ -----+ -----+ -----+ -----+	*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 = *106:01, *131:01
-----+ +-----+ +-----+ +-----+ -----+ -----+	*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, *17:01 = *08:01, *131:01
-----+ +-----+ +-----+ +-----+ -----+ -----+	*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
-----+ +-----+ +-----+ +-----+ -----+ -----+	*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
-----+ +-----+ +-----+ +-----+ -----+ -----+	*17:01, *75:01 = *75:01, *131:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*57:01, *77:01 = *57:01, *94:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*68:01, *108:01 = *84:01, *108:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*68:01, *80:01 = *80:01, *84:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*68:01, *129:01 = *84:01, *129:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*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
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*68:01, *105:01 = *84:01, *105:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*73:01, *80:01 = *75:01, *108:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*73:01, *77:01 = *73:01, *94:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*59:01, *75:01 = *73:01, *105:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*75:01, *77:01 = *75:01, *94:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*60:01, *75:01 = *75:01, *83:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*17:01, *68:01 = *68:01, *131:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*17:01, *84:01 = *84:01, *131:01
-----+ +-----+ +-----+ +-----+ -----+ +-----+	*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



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-----+ +-----+ ++-----+ -----+ +-----+ +-----+ *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
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *73:01 = *73:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *57:01 = *57:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *97:01 = *05:01:01, *32:01 = *32:01, *97:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *47:01 = *47:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *48:01, *60:01 = *48:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *48:01 = *48:01, *71:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *60:01, *81:01 = *81:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *16:01, *60:01 = *16:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *46:01, *59:01 = *46:01, *108:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *46:01, *60:01 = *46:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *46:01, *80:01 = *46:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *60:01, *123:01 = *83:01, *123:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *108:01 = *108:01, *115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *80:01 = *80:01, *115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *32:01, *60:01 = *32:01, *83:01 = *41:01:01, *82:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *82:01 = *32:01, *82:01 = *32:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *60:01, *115:01 = *83:01, *115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *60:01 = *02:01:02, *83:01 = *41:01:01, *60:01 =
*41:01:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *46:01, *64:01N = *64:01N, *115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *06:01, *46:01 = *06:01, *115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *81:01 = *81:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *123:01 = *123:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *71:01 = *71:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *32:01 = *32:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *46:01 = *17:01, *115:01 = *46:01, *131:01 =
*115:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *17:01 = *02:01:02, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *86:01 = *46:01, *86:01 = *86:01, *115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *81:01 = *71:01, *81:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *103:01 = *16:01, *71:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *46:01 = *46:01, *71:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *46:01 = *46:01, *46:01 = *46:01, *115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *123:01 = *123:01, *123:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *32:01 = *32:01, *71:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *115:01 = *71:01, *115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *41:01:01 = *41:01:01, *71:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *32:01 = *32:01, *32:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:01:02, *115:01 = *115:01, *115:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *60:01, *101:01 = *83:01, *101:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:02, *60:01 = *02:02, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *101:01 = *71:01, *101:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *22:01, *60:01 = *22:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *22:01, *23:01 = *22:01, *71:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *47:01, *60:01 = *47:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *47:01 = *47:01, *71:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *95:01 = *71:01, *95:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *60:01, *103:01 = *83:01, *103:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *60:01, *71:01 = *71:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *103:01 = *71:01, *103:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *23:01, *71:01 = *71:01, *71:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *101:01 = *101:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:02, *17:01 = *02:02, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *22:01 = *22:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *48:01 = *48:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *17:01, *103:01 = *103:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:02, *63:01 = *22:01, *112:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *02:02, *101:01 = *101:01, *101:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+ *22:01, *55:01 = *22:01, *58:01



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-----+ +---+---+-----++ +-----+ ----+---+ -+-----+	*05:01:01, *103:01 = *22:01, *63:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *77:01 = *77:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *82:01 = *82:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *80:01 = *80:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *60:01 = *60:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *105:01 = *105:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*80:01, *86:01 = *86:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *94:01 = *94:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *23:01 = *23:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*60:01, *100:01 = *83:01, *100:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*60:01, *97:01 = *83:01, *97:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*05:01:01, *82:01 = *82:01, *97:01 = *97:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*38:01, *60:01 = *38:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*05:01:01, *60:01 = *05:01:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*60:01, *112:01 = *83:01, *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
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*70:01, *77:01 = *70:01, *94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*77:01, *119:01 = *94:01, *119:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*14:01, *77:01 = *14:01, *94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*77:01, *91:01 = *91:01, *94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*60:01, *69:01 = *69:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*35:01:01, *77:01 = *35:01:01, *94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*35:01:02, *77:01 = *35:01:02, *94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*77:01, *98:01 = *94:01, *98:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*45:01, *77:01 = *45:01, *94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*60:01, *63:01 = *63:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*34:01, *77:01 = *34:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*60:01, *62:01 = *62:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*77:01, *108:01 = *94:01, *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
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*80:01, *80:01 = *80:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*77:01, *129:01 = *94:01, *129:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*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
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*77:01, *77:01 = *77:01, *94:01 = *77:01, *105:01 = *94:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*60:01, *82:01 = *82:01, *83:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*82:01, *82:01 = *82:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*60:01, *60:01 = *60:01, *83:01 = *60:01, *105:01 = *83:01, *105:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*23:01, *34:01 = *34:01, *94:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *100:01 = *100:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*05:01:01, *64:01N = *06:01, *38:01 = *38:01, *64:01N
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *97:01 = *97:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *38:01 = *38:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *116:01 = *116:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *112:01 = *112:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *63:01 = *63:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *62:01 = *62:01, *131:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*05:01:01, *112:01 = *63:01, *100:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*55:01, *97:01 = *58:01, *97:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*38:01, *55:01 = *38:01, *58:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*05:01:01, *97:01 = *97:01, *97:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*05:01:01, *38:01 = *38:01, *38:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*45:01, *112:01 = *67:01, *116:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*55:01, *63:01 = *58:01, *63:01
-----+ +-----+ +-----+ +-----+ +-----+ +-----+	*17:01, *41:01:01 = *41:01:01, *131:01



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----- +++++- +----- -++++- -++++- -++++- *17:01, *95:01 = *95:01, *131:01
----- +++++- +----- -++++- -++++- -++++- *54:01, *109:01 = *54:01, *113:01
----- +++++- +----- -++++- -++++- -++++- *30:01, *109:01 = *30:01, *113:01
----- ++++++ +++++- -++++- -++++- -++++- *14:01, *86:01 = *86:01, *119:01
----- ++++++ +++++- -++++- -++++- -++++- *17:01, *119:01 = *119:01, *131:01
----- ++++++ +++++- -++++- -++++- -++++- *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
----- ++++++ +----- -++++- -++++- -++++- *17:01, *108:01 = *108:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *83:01 = *83:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *129:01 = *129:01, *131:01
----- ++++++ ------ -++++- -++++- -++++- *59:01, *86:01 = *86:01, *108:01
----- ++++++ +++++- -++++- -++++- -++++- *09:01, *109:01 = *09:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *86:01 = *86:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *109:01 = *17:01, *113:01 = *109:01, *131:01 =
*113:01, *131:01
----- +++++- +----- -++++- -++++- -++++- *10:01, *109:01 = *10:01, *113:01
----- +++++- +----- -++++- -++++- -++++- *58:01, *109:01 = *58:01, *113:01
----- +++++- +----- -++++- -++++- -++++- *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
----- ++++++ +++++- -++++- -++++- -++++- *14:01, *129:01 = *119:01, *129:01
----- ++++++ ------ -++++- -++++- -++++- *59:01, *108:01 = *108:01, *108:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *54:01 = *54:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *21:01 = *21:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *30:01 = *30:01, *131:01
----- ++++++ +++++- -++++- -++++- -++++- *17:01, *70:01 = *70:01, *131:01
----- ++++++ +++++- -++++- -++++- -++++- *17:01, *91:01 = *91:01, *131:01
----- ++++++ +++++- -++++- -++++- -++++- *09:01, *98:01 = *17:01, *35:01:01 = *35:01:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *98:01 = *98:01, *131:01
----- ++++++ +++++- -++++- -++++- -++++- *17:01, *67:01 = *67:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *64:01N = *64:01N, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *69:01 = *69:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *06:01, *64:01N = *64:01N, *64:01N
----- ++++++ +----- -++++- -++++- -++++- *17:01, *34:01 = *34:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *58:01 = *58:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *93:01 = *93:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *55:01 = *55:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *17:01, *17:01 = *17:01, *131:01
----- ++++++ +----- -++++- -++++- -++++- *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 = *01:01:01-01:01:03
*02:01:02 = *02:01:02-02:01:07
*03:01:01 = *03:01:01-03:01:02
*04:01:01 = *04:01:01-04:01:02
*05:01:01 = *05:01:01-05:01:02
*11:01:01 = *11:01:01-11:01:02
*20:01:01 = *20:01:01-20:01:02
*41:01:01 = *41:01:01-41:01:02



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 ¹	Size of control band ²	Amplified DPB1 alleles ²⁸
1	245 bp	515 bp	*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, 127:01, 132:01
2⁴	220 bp	515 bp	*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, 127:01, 130:01, 132:01
3^{3,4,7}	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, 126:01, 127:01, 128:01
4^{3,4}	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, 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, 126:01, 127:01, 128:01
5	235 bp	515 bp	*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, 127:01
6	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, 127:01
7	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, 127:01
8	210 bp	515 bp	*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, 126:01, 128:01

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9^{4,6}	165 bp	430 bp	*02:01:02-02:01:05, 02:01:06 ^w , 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, 129:01, 130:01, 131:01
10	220 bp	515 bp	*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
11	190 bp	515 bp	*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, 126:01, 128:01, 129:01
12³	80 bp	515 bp	*02:01:02, 02:01:03 ^w , 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, 131:01
13	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
14^{3,9}	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
15	200 bp	430 bp	*02:02, 48:01, 95:01, 99:01, 100:01, 101:01, 112:01, 116:01
16^{3,4,10}	80 bp, 165 bp, 210 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, 127:01, 129:01, 130:01, 132:01
17	260 bp	515 bp	*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, 130:01, 131:01, 132:01
18	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,

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			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, 130:01, 131:01, 132:01
19	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, 130:01
20	235 bp	515 bp	*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, 132:01
21^{3,4}	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, 132:01
22⁴	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, 126:01, 128:01
23¹¹	145 bp, 210 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, 127:01
24¹²	195 bp, 265 bp	515 bp	*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
25¹³	190 bp, 265 bp	515 bp	*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
26^{3,7,14}	75 bp, 205 bp	515 bp	*06:01, 09:01, 17:01, 29:01, 44:01, 46:01, 64:01N, 86:01, 88:01, 101:01, 123:01, 131:01
27³	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, 130:01, 131:01
28¹⁵	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, 129:01, 131:01, 132:01
29	220 bp	515 bp	*09:01, 10:01, 17:01, 30:01, 54:01, 55:01, 58:01, 86:01, 113:01, 131:01
30	185 bp	430 bp	*09:01, 14:01, 17:01, 35:01:01, 76:01, 86:01, 91:01, 98:01, 119:01, 131:01
31^{3,5}	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,

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32 ^{3,5,16}	75 bp, 195 bp	430 bp	*11:01:01-11:01:02, 78:01, 130:01
33 ^{3,17}	140 bp, 205 bp	430 bp	*13:01, 33:01, 81:01, 107:01, 110:01, 117:01, 123:01
34	210 bp	430 bp	*14:01, 45:01, 67:01, 76:01, 91:01, 119:01
35	195 bp	430 bp	*15:01, 74:01
36	260 bp	515 bp	*15:01, 18:01, 28:01, 34:01, 40:01, 53:01, 62:01
37 ^{8,18}	185 bp, 255 bp	430 bp	*04:02, 08:01 [?] , 15:01, 21:01 [?] , 22:01 [?] , 24:01 [?] , 25:01 [?] , 27:01 [?] , 28:01, 29:01 [?] , 31:01 [?] , 32:01 [?] , 34:01 [?] , 35:01:01 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 40:01, 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 51:01 [?] , 52:01 [?] , 53:01, 54:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 59:01, 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01, 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 86:01 [?] , 87:01 [?] , 89:01 [?] , 90:01 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 122:01 [?] , 125:01 [?] , 126:01, 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?]
38 ³	100 bp	515 bp	*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
39	210 bp	515 bp	*28:01, 31:01, 34:01, 57:01, 59:01, 72:01, 73:01, 95:01, 102:01, 108:01
40 ^{3-5,19}	95 bp, 180 bp	430 bp	*06:01 [?] , 08:01 [?] , 10:01 [?] , 11:01:01 [?] -11:01:02 [?] , 16:01 [?] , 17:01 [?] , 18:01 [?] , 20:01:01 [?] -20:01:02 [?] , 21:01 [?] , 22:01 [?] , 23:01 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] -26:01:02 [?] , 27:01 [?] , 28:01 [?] , 29:01 [?] , 30:01, 31:01 [?] , 32:01 [?] , 33:01 [?] , 34:01 [?] , 35:01:01 [?] -35:01:02 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 39:01 [?] , 40:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 45:01 [?] , 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01, 55:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 59:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01 [?] , 86:01 [?] , 87:01 [?] , 88:01 [?] , 89:01 [?] , 90:01 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 107:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 121:01 [?] , 122:01 [?] ,

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41 ^{3,20}	75 bp, 230 bp	515 bp	*31:01, 34:01, 77:01, 94:01
42 ^{3,21}	140 bp, 185 bp, 245 bp, 285 bp	430 bp	*32:01, 82:01, 97:01, 128:01
43 ^{3,4,22}	65 bp, 190 bp	430 bp	*05:01:01-05:01:02, 06:01 [?] , 08:01 [?] , 10:01 [?] , 11:01:01 [?] - 11:01:02 [?] , 16:01 [?] , 17:01 [?] , 18:01 [?] , 19:01, 20:01:01 [?] - 20:01:02 [?] , 21:01 [?] , 22:01 [?] , 23:01 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] -26:01:02 [?] , 27:01 [?] , 28:01 [?] , 29:01 [?] , 30:01 [?] , 31:01 [?] , 32:01 [?] , 33:01 [?] , 34:01, 35:01:01 [?] -35:01:02 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 39:01 [?] , 40:01 [?] , 41:01:01 [?] - 41:01:02 [?] , 44:01 [?] , 45:01 [?] , 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 59:01 [?] , 60:01 [?] , 61:01N [?] , 62:01, 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01 [?] , 86:01 [?] , 87:01 [?] , 88:01 [?] , 89:01 [?] , 90:01 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 104:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 121:01 [?] , 122:01 [?] , 123:01 [?] , 124:01 [?] , 125:01 [?] , 126:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?] , 131:01 [?] , 132:01 [?]
44 ^{3,5,23}	110 bp, 185 bp, 245 bp, 270 bp	430 bp	*38:01, 64:01N, 111:01, 118:01, 120:01N
45 ^{3,24}	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
46 ^{3,25}	70 bp, 210 bp	430 bp	*41:01:01-41:01:02, 60:01, 69:01, 83:01, 96:01
47 ^{4,7,26}	165 bp, 255 bp	430 bp	*02:01:02-02:02, 04:01:01-04:01:02, 08:01 [?] , 17:01, 21:01 [?] , 22:01 [?] , 23:01, 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 27:01 [?] , 28:01, 29:01 [?] , 30:01, 31:01 [?] , 32:01 [?] , 33:01, 34:01 [?] , 35:01:01 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 39:01, 40:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01, 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01, 56:01 [?] , 57:01 [?] , 58:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] ,

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48^{3,27}	115 bp, 210 bp, 280 bp	430 bp	*56:01, 61:01N, 66:01, 76:01, 85:01, 92:01, 110:01, 125:01

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

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 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, 36, 38, 39 and 41 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.

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

⁴Primer mixes 2, 3, 4, 9, 16, 40, 43 and 47 may yield less HLA-specific PCR products than the other DPB1 primer mixes.

⁵Primer mixes 31, 32 and 40 may give rise to non-specific amplifications.

⁶Primer mix 9 may give rise to a weaker positive control band than the other DPB1 primer mixes.

⁷Primer mixes 3, 26 and 47 has a tendency of giving rise to primer oligomer formation.

⁸Primer mix 37 may give a lower yield of specific PCR product in the DPB1*15:01 and DPB1*74:01 alleles.

⁹Primer 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 alleles. 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.

¹⁰Primer 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, 124:01, 129:01, 130:01 and 132:01 alleles. Specific PCR fragment of 165 bp in the DPB1*99:01 allele. Specific PCR fragment of 210 bp in the DPB1*127:01 allele.

¹¹Primer mix 23: Specific PCR fragment of 145 bp in the DPB1*05:01:01-05:01:02, 34:01, 36:01, 38:01, 62:01, 63:01, 97:01, 100:01, 112:01, 114:01 and 116:01 alleles. Specific PCR fragment of 210 bp in the DPB1*127:01 allele.

¹²Primer 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.

¹³Primer 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.

¹⁴Primer 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, 101:01, 123:01 and 131:01 alleles. Specific PCR fragment of 205 bp in the DPB1*123:01 allele.

¹⁵Primer 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, 125:01, 129:01, 131:01 and 132:01 alleles. Specific PCR fragment of 260 bp in the DPB1*119:01 allele.

¹⁶Primer mix 32: Specific PCR fragment of 75 bp in the DPB1*78:01 allele. Specific PCR fragment of 195 bp in the DPB1*11:01:01-11:01:02 and 130:01 alleles.

¹⁷Primer 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 DPB1*123:01 allele.

¹⁸Primer 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, 59:01 and 126:01 alleles. The 3rd 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 3rd exon may amplify other DPB1 alleles.

¹⁹Primer 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 1st 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 1st exon may amplify other DPB1 alleles.

²⁰Primer 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.

²¹Primer 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 245 bp in the DPB1*128:01 allele. Specific PCR fragment of 285 bp in the DPB1*82:01 allele.

²²Primer 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 4th 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 4th exon may amplify other DPB1 alleles.

²³Primer mix 44: Specific PCR fragment of 185 bp in the DPB1*111:01 and 120:01N 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.

²⁴Primer 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.

²⁵Primer 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.

²⁶Primer 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, 33:01, 39:01, 55:01, 105:01, 106:01, 121:01, 123:01 and 124:01 alleles. The 3rd 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, 33:01, 39:01, 55:01, 105:01, 106:01, 121:01, 123:01 and 124:01 sequence motif in the 3rd exon may amplify other DPB1 alleles.

²⁷Primer 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.

²⁸The 1st, 3rd and 4th exon of many DPB1 alleles is not sequenced and thus the primer pairs in primer mixes 37, 40, 43 and 47 may amplify other DPB1 alleles. We assume that unknown sequences in these exons and in the introns are conserved within loci and within allelic groups.

'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*132:01 alleles																								
	Well ⁵																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
PCR product														175		210	165						210	265
Length of int. pos. control ¹	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) ²	5'-TgT ^{3'} 9(112)	5'-TgT ^{3'} 9(112)	5'-CgC ^{3'} 36(194)	5'-CgC ^{3'} 36(194)	5'-ggg ^{3'} 11(119)	5'-gTA ^{3'} 35(191)	5'-CgC ^{3'} 36(194)	5'-TTT ^{3'} 9(113)	5'-AgC ^{3'} 35(190)	5'-TTT ^{3'} 9(113)	5'-gTT ^{3'} 35(191)	5'-gAT ^{3'} 55(252)	5'-TTT ^{3'} 9(113)	5'-gTT ^{3'} 11(119)	5'-gAg ^{3'} 28(169)	5'-gAT ^{3'} 12(121)	5'-gTT ^{3'} 11(119)	5'-gTT ^{3'} 11(119)	5'-gTT ^{3'} 11(119)	5'-gTT ^{3'} 11(119)	5'-gAT ^{3'} 57(258)	5'-CgC ^{3'} 36(194)	5'-gAT ^{3'} 12(121)	5'-TTT ^{3'} 9(113)
			5'-CgC ^{3'} 36(194)	5'-CgC ^{3'} 36(194)	5'-ggg ^{3'} 11(119)	5'-gTA ^{3'} 35(191)	5'-CgC ^{3'} 36(194)		5'-CgT ^{3'} 36(194)					5'-gTT ^{3'} 11(119)	5'-AgC ^{3'} 35(190)	5'-gAg ^{3'} 28(169)	5'-gTT ^{3'} 11(119)	5'-gTT ^{3'} 11(119)	5'-gTT ^{3'} 11(119)	5'-gTT ^{3'} 11(119)		5'-CgC ^{3'} 36(194)	5'-AgC ^{3'} 35(190)	
														5'-AgC ^{3'} 35(190)		5'-TgA ^{3'} 56(254)								
3'-primer(s) ³	5'-CAT ^{3'} 76(315)	5'-CTT ^{3'} 69(292)	5'-CAg ^{3'} 55(251)	5'-CTT ^{3'} 69(292)	5'-CAT ^{3'} 76(315)	5'-CAT ^{3'} 76(315)	5'-CAT ^{3'} 76(315)	5'-gAT ^{3'} 65(280)	5'-TAT ^{3'} 76(313)	5'-CTC ^{3'} 69(292)	5'-gTT ^{3'} 84(337)	5'-CTC ^{3'} 69(292)	5'-gCC ^{3'} 55(252)	5'-gCC ^{3'} 55(252)	5'-CgC ^{3'} 84(338)	5'-CTT ^{3'} 69(292)	5'-CgT ^{3'} 84(338)	5'-TAG ^{3'} 57(258)	5'-gAg ^{3'} 65(280)	5'-CAT ^{3'} 76(315)	5'-CAT ^{3'} 76(315)	5'-CgC ^{3'} 84(338)	5'-CTT ^{3'} 69(292)	5'-CgT ^{3'} 84(338)
			5'-CTT ^{3'} 69(292)				5'-ggT ^{3'} 65(281)	5'-CAT ^{3'} 76(313)			5'-CgC ^{3'} 84(338)											5'-CTT ^{3'} 69(292)	5'-CgT ^{3'} 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.	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
PCR product														175		165							210	265
															210									
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 ⁴																								
*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																					24
*32:01								8	9	10	11	12												
*33:01			3					8		10	11											22		
*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
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				245 245 245 280								
												245 270												
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 ⁴
				31								37								47				
																				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
25				31												43								*04:01:01-04:01:02
26 27												?				?								*04:02
				31								?				?				?				*05:01:01-05:01:02
26				28 29 30																				*06:01
				28 29 31								?				?								*08:01
				31 32								?				?								*09:01
				28				33																*10:01
				30				34																*11:01:01-11:01:02
								35 36 37																*13:01
				31								?				?								*14:01
26 27 28 29 30												?				?				47				*15:01
								36				?				?								*16:01
				31												43								*17:01
27												?				?								*18:01
25				28 31				?				?				?				?				*19:01
25				31				?				?				?				?				*20:01:01-20:01:02
								38				?				?				47				*21:01
								?				?				?				?				*22:01
				31				?				?				?				?				*23:01
				28 31				?				?				?				?				*24:01
				28 31				?				?				?				?				*25:01
				28 31				?				?				?				?				*26:01:01
				28 31				?				?				?				?				*26:01:02
				28 31				36 37 39				?				?				47				*27:01
26								?				?				?				?				*28:01
				28 29 31								40				?				47				*29:01
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								?				?				41				?				*31:01
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								33				?				?				47				*33:01
								36				?				38 39				?				*34:01
				28 30				?				?				?				?				*35:01:01
				28				?				?				?				?				*35:01:02
25				28 31				?				?				?				?				*36:01
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.



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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							210	265
																210								
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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*38:01								8	9				13	14									23	24
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*40:01			3	4				8																
*41:01:01-41:01:02									9	10	11	12												
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*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				
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*55:01									9								17							
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*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				
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*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									
*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									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



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Lot-specific Information																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			
																	245		245	245				280		
																	285		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			31						?			?			?				?			*37:01	
25						31						?			?			?	44			?			*38:01	
															?			?		45		47			*39:01	
											36	37			?			?				?			*40:01	
												?			?			?		46		?			*41:01:01-41:01:02	
25	26											?			?			?			47				*44:01	
						31			34						?			?							*45:01	
	26	27										?			?			?		45		?			*46:01	
												?			?			?				?			*47:01	
												?			?			?				?			*48:01	
												?			?			?		45		?			*49:01	
												?			?			?				?			*50:01	
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												?			?			?				?			*53:01	
			28	29		31						?			40			?				?			*54:01	
			28	29		31						?			?			?			47				*55:01	
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												?		39	?			?				?			*57:01	
25			28	29		31						?	38	?			?		?		?				*58:01	
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												?			?			?			46	?			*60:01	
												?			?			?				?	48		*61:01N	
											36	?	38	?			43		?			?			*62:01	
25						31						?	38	?			?		?			?			*63:01	
	26	27										?			?			?	44			?			*64:01N	
						31						?			?			?				?			*65:01	
			28									?			?			?				?	48		*66:01	
						31			34			?	38	?			?		?			?			*67:01	
						31						?			?			?				?			*68:01	
		27										?			?			?		46	?	?			*69:01	
25												?			?			?			?	?			*70:01	
												?	38	?			?		?			?			*71:01	
												?		39	?			?				?			*72:01	
												?		39	?			?				?			*73:01	
										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	
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								210	265
															210									
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
*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
*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									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



Lot No.: **09M**

Lot-specific Information

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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				255				180				230 185 190 185					190 210 255 210				
																				245 245 245					280				
25 26 27 28				29 30 31 32				33 34 35 36				37 38 39 40				41 42 43 44				45 46 47 48				Well No.					
								33				?				?									?				*81:01
												?				42				?				?				*82:01	
												?				?				46				?				*83:01	
				31								?				?				?				?				*84:01	
				28								?				?								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				?				?				?				?				*91:01	
												?				?				?				48				*92:01	
				28								?				?				?				?				*93:01	
				31								?				41				?				?				*94:01	
												?				38 39				?				?				*95:01	
												?				?				45 46				?				*96:01	
25												?				?				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				33								40												*107:01	
				27								?				39				?				45				*108:01	
				28								?				?				?				?				*109:01	
				28				31				33								?				?				48	*110:01
																?				?				44				*111:01	
												?				38				?				?				*112:01	
				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	
25 26 27 28				29 30 31 32				33 34 35 36				37 38 39 40				41 42 43 44				45 46 47 48				Well No.					



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Lot-specific Information

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Length of spec.	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
PCR product													175		165								210	265
															210									
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
*123:01								8	9	10	11	12												
*124:01	1	2														16	17	18	19	20	21			
*125:01			3	4			7										17			20				
*126:01			3	4				8			11											22		
*127:01	1	2	3	4	5	6	7									16								23
*128:01			3	4				8			11											22		
*129:01									9		11					16								
*130:01		2							9							16	17	18	19					
*131:01									9			12					17	18						
*132:01	1	2														16	17	18		20	21			
DPB1 allele⁴																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 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, 36, 38, 39 and 41 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.

²The codon, and in parenthesis the nucleotide, in the 1st, 2nd, 3rd or 4th exon or in the 1st 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.

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

⁴The 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.

⁵Primer 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 alleles. 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, 124:01, 129:01, 130:01 and 132:01 alleles. Specific PCR fragment of 165 bp in the DPB1*99:01 allele. Specific PCR fragment of 210 bp in the DPB1*127:01 allele.

Primer mix 23: Specific PCR fragment of 145 bp in the DPB1*05:01:01-05:01:02, 34:01, 36:01, 38:01, 62:01, 63:01, 97:01, 100:01, 112:01, 114:01 and 116:01 alleles. Specific PCR fragment of 210 bp in the DPB1*127:01 allele.

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Lot-specific Information

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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			
																	245		245		245				280		
																	285		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.			
	26							33							?			?					47			*123:01	
															?			?					47			*124:01	
			28			31						?			?			?					?	48		*125:01	
												37			?			?								*126:01	
						31						?			?			?					?			*127:01	
												?			?		42	?					?			*128:01	
			28									?			?			?					?			*129:01	
		27					32					?			?			?					?			*130:01	
	26	27	28	29	30										?			?								*131:01	
			28												?			?								*132:01	
																DPB1 allele ⁴											
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.			

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, 101:01, 123:01 and 131:01 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, 125:01, 129:01, 131:01 and 132:01 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 DPB1*11:01:01-11:01:02 and 130:01 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 DPB1*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, 59:01 and 126:01 alleles. The 3rd 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 3rd exon may amplify other DPB1 alleles.

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 1st 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 1st 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 245 bp in the DPB1*128:01 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 4th 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 4th exon may amplify other DPB1 alleles.



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Lot-specific Information

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Primer mix 44: Specific PCR fragment of 185 bp in the DPB1*111:01 and 120:01N 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, 33:01, 39:01, 55:01, 105:01, 106:01, 121:01, 123:01 and 124:01 alleles. The 3rd 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, 33:01, 39:01, 55:01, 105:01, 106:01, 121:01, 123:01 and 124:01 sequence motif in the 3rd 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	
				201184901	201184902	201184903	201184904	201184905	201184906	201184907	201184908	201184909	201184910	201184911	201184912	201184913	201184914	201184915	201184916	
	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	*105:01	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	+
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															
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
					201184917	201184918	201184919	201184920	201184921	201184922	201184923	201184924	201184925	201184926	201184927	201184928	201184929	201184930	201184931	201184932
	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	*105:01		-	-	-	-	-	-	-	-	-	-	-	-	+			
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	
	IHWC cell line	DPB1			201184933	201184934	201184935	201184936	201184937	201184938	201184939	201184940	201184941	201184942	201184943	201184944	201184945	201184946	201184947	201184948	
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	*105:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
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: 101.311-24/04 – including *Taq* pol.
Lot number: 09M
Expiry date: 2013-November-01
Number of tests: 24 tests – Product No. 101.311-24
4 tests – Product No. 101.311-04
Number of wells per test: 48

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2011-849-01	17	2011-849-17	33	2011-849-33
2	2011-849-02	18	2011-849-18	34	2011-849-34
3	2011-849-03	19	2011-849-19	35	2011-849-35
4	2011-849-04	20	2011-849-20	36	2011-849-36
5	2011-849-05	21	2011-849-21	37	2011-849-37
6	2011-849-06	22	2011-849-22	38	2011-849-38
7	2011-849-07	23	2011-849-23	39	2011-849-39
8	2011-849-08	24	2011-849-24	40	2011-849-40
9	2011-849-09	25	2011-849-25	41	2011-849-41
10	2011-849-10	26	2011-849-26	42	2011-849-42
11	2011-849-11	27	2011-849-27	43	2011-849-43
12	2011-849-12	28	2011-849-28	44	2011-849-44
13	2011-849-13	29	2011-849-29	45	2011-849-45
14	2011-849-14	30	2011-849-30	46	2011-849-46
15	2011-849-15	31	2011-849-31	47	2011-849-47
16	2011-849-16	32	2011-849-32	48	2011-849-48

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, 23, 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: 2012-June-29

Approved by:

Production Quality Control

Lot No.: **09M**

Lot-specific Information

www.olerup-ssp.com

Declaration of Conformity

Product name: *Olerup* SSP® DPB1
Product number: 101.311-24/04
Lot number: 09M

Intended use: DPB1 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
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SE-112 51 Stockholm, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

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

The Technical Documentation File is maintained at *Olerup* SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

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

Stockholm, Sweden
2012-June-29

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

Lot No.: **09M**

Lot-specific Information

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