

Lot No.: **47G**

Lot-specific Information

Olerup SSP[®] DPB1

Product number: 101.311-24u/04u – without *Taq* pol.
Lot number: 47G
Expiry date: 2011-November-01
Number of tests: 24 tests – Product No. 101.311-24u
4 tests – Product No. 101.311-04u
Number of wells per test: 48
Storage - pre-aliquoted primers: dark at -20°C
- PCR Master Mix: -20°C
- Adhesive PCR seals RT
- Product Insert RT

This Product Description is only valid for Lot No. 47G.

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. 29F**).

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

Well	5'-primer	3'-primer	rationale
1	Modified	-	Increased specificity of specific PCR product.
12	Exchanged	-	Decreased primer dimer formation.
26	-	-	Exchanged positive control primer pair.
28	-	Added	Exchanged positive control primer pair, primer added for the DPB1*2202 allele.
33	Added	-	Primer added for the DPB1*2602 allele.
38	Added	-	Primer added for the DPB1*2402 allele.
40	-	Modified	Increased specificity of specific PCR product.
44	Added	Added	Primer pair added for the DPB1*2302N allele.
48	-	Modified	Increased specificity of specific PCR product.

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PRODUCT DESCRIPTION

DPB1 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DPB1*0101 to DPB1*9901 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. '47G'.

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*0101 to DPB1*9901**, recognized by the HLA Nomenclature Committee in October 2009¹ will give rise to unique amplification patterns by the primers in the DPB1 typing kit.

The DPB1 typing kit cannot distinguish the DPB1*010101 to DP1*010103 alleles, the DPB1*020102, DP1*020104, DP1*020105 and DP1*020107 alleles, the DPB1*030101 and DPB1*030102 alleles, the DPB1*040101 and DPB1*040102 alleles, the DPB1*050101 and DPB1*050102 alleles, the DPB1*110101 and DPB1*110102 alleles, the DPB1*200101 and DPB1*200102 alleles or the DPB1*410101 and DPB1*410102 alleles.

¹DPB1 alleles listed on the IMGT/HLA web page 2009-October-19, release 2.27.0, www.ebi.ac.uk/imgt/hla.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

The 121 DPB1 alleles can be combined in 7 626 homozygous and heterozygous combinations. 1874 of these genotypes do not give rise to unique amplification patterns. (The different lengths of the specific PCR products in lanes 24, 25, 28, 32, 33, 37, 40 to 45, 47 and 48 were not considered in these calculations.)

```
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0802,260101 = 0802,260102
                                     = 1901,260101
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0802,2102 = 1901,2102
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0402,2102 = 0602,2102
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,3801 = 0501,2102 =
                                     2102,3801
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0801,260101 = 0801,260102
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 260101,7501 = 260102,7501
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 2102,5101 = 2302N,2502
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,5101 = 0401,2502
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,2302N = 0401,2102 =
                                     2102,2302N
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0301,6501 = 0502,6501 =
                                     6501,9201
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 260101,6801 = 260102,6801
                                     = 6501,7901
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,4901 = 2502,3901
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,6801 = 2502,6501
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,5301 = 2502,4001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 260101,6501 = 260101,8401
                                     = 260102,6501 =
                                     260102,8401
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 2102,6501 = 2102,8401
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,6501 = 0101,8401 =
                                     6501,9001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,6401N = 0601,2102 =
                                     2102,6401N
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 260101,7301 = 260102,7301
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 1401,2102 = 2102,7601
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,1402 = 0301,2102 =
                                     0502,2102 = 1402,2102 =
                                     2102,9201
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,2501 = 2502,5601
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 260101,5701 = 260102,5701
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 260101,5001 = 260102,5001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0902,2502 = 1301,2502 =
                                     1302,2502
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,7901 = 2502,260101 =
                                     2502,260102
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,2502 = 2502,8901 =
                                     2502,9001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0902,2102 = 1301,2102 =
                                     1302,2102
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,1302 = 0902,9001 =
                                     1301,9001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 2102,260101 = 2102,260102
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 260101,9001 = 260102,9001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,2102 = 2102,2102 =
                                     2102,8901 = 2102,9001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0101,8901 = 0101,9001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0802,5601 = 1901,5601
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0802,9001 = 1901,9001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0402,9001 = 0602,9001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 1401,9001 = 7601,9001
+++++++ +-----+ +-----+ +-----+ +-----+ +-----+ 0301,9001 = 0502,9001 =
                                     9001,9201
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+++++--	-----	-----	-----+	-----+	-----+	8901,9001 = 9001,9001
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,4601 = 260102,4601
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,2602 = 260102,2602
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,3201 = 260102,3201
+++++---	++++-----	+-----	-----+	-----+	-----+	1802,260101 = 1802,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	0201,260101 = 0201,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,4701 = 260102,4701
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,7101 = 260102,7101
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,4801 = 260102,4801
+++++---	++++-----	+-----	-----+	-----+	-----+	0203,260101 = 0203,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	0202,260101 = 0202,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	2201,260101 = 2201,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	0403,260101 = 0403,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,8001 = 260102,8001
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,7701 = 260102,7701
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,8201 = 260102,8201
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,6001 = 260102,6001
+++++---	++++-----	+-----	-----+	-----+	-----+	0602,260101 = 0602,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,9401 = 260102,9401
+++++---	++++-----	+-----	-----+	-----+	-----+	2301,260101 = 2301,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	0102,260101 = 0102,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,9701 = 260102,9701
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,3801 = 260102,3801
+++++---	++++-----	+-----	-----+	-----+	-----+	1902,260101 = 1902,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	1502,260101 = 1502,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,6301 = 260102,6301
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,6201 = 260102,6201
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,8101 = 260102,8101
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,3301 = 260102,3301
+++++---	++++-----	+-----	-----+	-----+	-----+	2401,260101 = 2401,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,9901 = 260102,9901
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,5101 = 260102,5101
+++++---	++++-----	+-----	-----+	-----+	-----+	2302N,260101 = 2302N,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	2402,260101 = 2402,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	0401,260101 = 0401,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,4901 = 260102,4901
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,5301 = 260102,5301
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,9601 = 260102,9601
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,3901 = 260102,3901
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,4001 = 260102,4001
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,4101 = 260102,4101
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,9501 = 260102,9501
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,8601 = 260102,8601
+++++---	++++-----	+-----	-----+	-----+	-----+	1602,260101 = 1602,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	1102,260101 = 1102,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	1002,260101 = 1002,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,5901 = 260102,5901
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,8301 = 260102,8301
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,6401N = 260102,6401N
+++++---	++++-----	+-----	-----+	-----+	-----+	1701,260101 = 1701,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,9301 = 260102,9301
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,3601 = 260102,3601
+++++---	++++-----	+-----	-----+	-----+	-----+	2101,260101 = 2101,260102
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,9101 = 260102,9101
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,9801 = 260102,9801
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,6901 = 260102,6901
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,8701 = 260102,8701
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,3401 = 260102,3401
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,5801 = 260102,5801
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,3001 = 260102,3001
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,5501 = 260102,5501
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,7201 = 260102,7201
+++++---	++++-----	+-----	-----+	-----+	-----+	260101,6601 = 260102,6601



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+++++--	-----	+++++--	++-+--	-----	-----	260101,4401 = 260102,4401
+++++--	-----	+++++--	++-+--	-----	-----	260101,2901 = 260102,2901
+++++--	-----	+++++--	++-+--	-----	-----	1001,260101 = 1001,260102
+++++--	-----	+++++--	++-+--	-----	-----	260101,3701 = 260102,3701
+++++--	-----	+++++--	++-+--	-----	-----	1702,260101 = 1702,260102
+++++--	-----	+++++--	++-+--	-----	-----	260101,7001 = 260102,7001
+++++--	-----	+++++--	++-+--	-----	-----	2202,260101 = 2202,260102
						= 260101,7601 =
						260102,7601
+++++--	-----	+++++--	++-+--	-----	-----	260101,7801 = 260102,7801
+++++--	-----	+++++--	++-+--	-----	-----	0902,9201 = 1301,9201
+++++--	-----	+++++--	++-+--	-----	-----	1402,260101 = 1402,260102
+++++--	-----	+++++--	++-+--	-----	-----	260101,6101N =
						260102,6101N
+++++--	-----	+++++--	++-+--	-----	-----	260101,9201 = 260102,9201
+++++--	-----	+++++--	++-+--	-----	-----	0301,260101 = 0502,260101
+++++--	-----	+++++--	++-+--	-----	-----	0301,260102 = 0502,260102
+++++--	-----	+++++--	++-+--	-----	-----	260101,350101 =
						260102,350101
+++++--	-----	+++++--	++-+--	-----	-----	2501,260101 = 2501,260102
+++++--	-----	+++++--	++-+--	-----	-----	260101,2801 = 260102,2801
+++++--	-----	+++++--	++-+--	-----	-----	260101,7901 = 260102,7901
+++++--	-----	+++++--	++-+--	-----	-----	1101,260101 = 1101,260102
+++++--	-----	+++++--	++-+--	-----	-----	0902,5601 = 1301,5601
+++++--	-----	+++++--	++-+--	-----	-----	260101,6701 = 260102,6701
+++++--	-----	+++++--	++-+--	-----	-----	260101,7401 = 260102,7401
+++++--	-----	+++++--	++-+--	-----	-----	260101,5201 = 260102,5201
+++++--	-----	+++++--	++-+--	-----	-----	260101,5601 = 260102,5601
+++++--	-----	+++++--	++-+--	-----	-----	2002,260101 = 2002,260102
+++++--	-----	+++++--	++-+--	-----	-----	260101,3101 = 260102,3101
+++++--	-----	+++++--	++-+--	-----	-----	0302,260101 = 0302,260102
+++++--	-----	+++++--	++-+--	-----	-----	260101,5401 = 260102,5401
+++++--	-----	+++++--	++-+--	-----	-----	0902,2701 = 0902,8901 =
						1301,2701 = 1301,8901 =
						1302,260101 = 1302,260102
+++++--	-----	+++++--	++-+--	-----	-----	0902,260101 = 1301,260101
+++++--	-----	+++++--	++-+--	-----	-----	0902,8501 = 1301,8501
+++++--	-----	+++++--	++-+--	-----	-----	0902,260102 = 1301,260102
+++++--	-----	+++++--	++-+--	-----	-----	260101,2701 = 260101,8901
						= 260102,2701 =
						260102,8901
+++++--	-----	+++++--	++-+--	-----	-----	260101,260101 =
						260101,260102
+++++--	-----	+++++--	++-+--	-----	-----	0402,5601 = 0602,5601
+++++--	-----	+++++--	++-+--	-----	-----	2701,9201 = 350102,5601
+++++--	-----	+++++--	++-+--	-----	-----	1401,5601 = 5601,7601
+++++--	-----	+++++--	++-+--	-----	-----	1101,9201 = 5601,7801
+++++--	-----	+++++--	++-+--	-----	-----	0301,5601 = 0502,5601 =
						5601,9201 = 8901,9201
+++++--	-----	+++++--	++-+--	-----	-----	5601,5601 = 5601,8901
+++++--	-----	+++++--	++-+--	-----	-----	1302,2701 = 1302,8901
+++++--	-----	+++++--	++-+--	-----	-----	0301,9901 = 0502,9901
+++++--	-----	+++++--	++-+--	-----	-----	0301,2302N = 0401,1402 =
						0502,2302N = 1402,2302N
+++++--	-----	+++++--	++-+--	-----	-----	0301,2402 = 0502,2402
+++++--	-----	+++++--	++-+--	-----	-----	0401,5201 = 2402,5201
+++++--	-----	+++++--	++-+--	-----	-----	0301,9601 = 0502,9601
+++++--	-----	+++++--	++-+--	-----	-----	0301,3901 = 0502,3901
+++++--	-----	+++++--	++-+--	-----	-----	0301,4001 = 0502,4001
+++++--	-----	+++++--	++-+--	-----	-----	0301,6601 = 0502,6601
+++++--	-----	+++++--	++-+--	-----	-----	0301,7201 = 0502,7201
+++++--	-----	+++++--	++-+--	-----	-----	2701,8801 = 8801,8901
+++++--	-----	+++++--	++-+--	-----	-----	2701,3701 = 3701,8901
+++++--	-----	+++++--	++-+--	-----	-----	0301,3101 = 0502,3101
+++++--	-----	+++++--	++-+--	-----	-----	0301,0302 = 0302,0502



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++++----- +-----+ +++++----- ---+----+ -----+--- -+-----+ 2701,6101N = 6101N,8501
++++----- +-----+ +++++----- ---+----+ -----+--- -+-----+ 0301,2701 = 0502,2701
++++----- +-----+ +++++----- ---+----+ -----+--- -+-----+ 0301,8501 = 0502,8501
++++----- +-----+ +++++----- ---+----+ -----+--- -+-----+ 0301,8901 = 0502,8901
++++----- +-----+ +++++----- ---+----+ -----+--- -+-----+ 2701,7901 = 7901,8901
+++++---+ +-----+ +-----+--- ---+----+ +-----+--- -+-----+ 0902,5001 = 1301,5001
+++++---+ +-----+ +-----+--- ---+----+ +-----+--- -+-----+ 0902,3601 = 1301,3601
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0902,2001 = 1301,2001
+++++---+ +-----+ +-----+--- ---+----+ +-----+--- -+-----+ 0902,1801 = 1301,1801
+++++---+ +-----+ +-----+--- ---+----+ +-----+--- -+-----+ 0902,8701 = 1301,8701
+++++---+ +-----+ +-----+--- ---+----+ +-----+--- -+-----+ 0902,1702 = 1301,1702
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0902,7801 = 1301,7801
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0902,1402 = 1301,1402
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0902,6101N = 1301,6101N
+++++---+ +-----+ +-----+--- ---+----+ +-----+--- -+-----+ 0902,2501 = 1301,2501
+++++---+ +-----+ +-----+--- ---+----+ +-----+--- -+-----+ 0902,7901 = 1301,7901
+++++---+ +-----+ +-----+--- ---+----+ +-----+--- -+-----+ 0902,5201 = 1301,5201
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0301,1302 = 0502,1302
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0301,3301 = 0502,3301
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0301,2002 = 0502,2002
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0301,1101 = 0502,1101 =
1101,7801
+++----- +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,7401 = 0502,7401
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 0802,2502 = 1901,2502
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ +-----+ 2502,7701 = 2502,9401
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 0402,2502 = 0602,2502
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 2502,6801 = 2502,8401
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 2001,2502 = 2502,6901
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 1401,2502 = 2502,7601
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0301,2502 = 0502,2502 =
2502,9201
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0802,9201 = 1901,9201
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 6801,9201 = 8401,9201
+++++---+ +-----+ +++++----- ---+----+ ---+----+ +-----+ 7701,9201 = 9201,9401
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0402,9201 = 0602,9201
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 2001,9201 = 6901,9201
+++++---+ +-----+ +++++----- ---+----+ +-----+--- -+-----+ 0301,7601 = 0502,7601 =
1401,9201 = 7601,9201
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,9201 = 0502,9201 =
9201,9201
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,2401 = 0502,2401
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,5101 = 0502,5101
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,4901 = 0502,4901
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,5301 = 0502,5301
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,2801 = 0502,2801
+++++---+ +-----+ +-----+--- ---+----+ +-----+--- -+-----+ 0802,1702 = 1702,1901
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0802,7801 = 1901,7801
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0802,1402 = 1402,1901
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0802,6101N = 1901,6101N
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,1901 = 0502,1901
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 0802,2501 = 1901,2501
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 0802,7901 = 1901,7901
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 0802,5001 = 1901,5001
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 0802,5201 = 1901,5201
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ +-----+ 5001,7701 = 5001,9401
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 0402,5001 = 0602,5001
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 0301,0801 = 0502,0801
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,7501 = 0502,7501
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 6801,7801 = 7801,8401
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 1402,6801 = 1402,8401
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 6101N,6801 = 6101N,8401
+++++---+ +-----+ +++++----- ---+----+ ---+----+ -+-----+ 0301,6801 = 0301,8401 =
0502,6801 = 0502,8401
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 2501,6801 = 2501,8401
+++++---+ +-----+ +-----+--- ---+----+ ---+----+ -+-----+ 6801,7901 = 7901,8401



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Lot-specific Information

++++++	-----	-----	-----	-----	-----	5001,6801	=	5001,8401
++++++	-----	+++++	-----	-----	-----	2001,5001	=	5001,6901
+++++	-----	+++++	-----	-----	-----	0301,7301	=	0502,7301
+++++	-----	+++++	-----	-----	-----	0301,5701	=	0502,5701
+++++	-----	+++++	-----	-----	-----	0301,5001	=	0502,5001
+++++	-----	+++++	-----	-----	-----	0301,4601	=	0502,4601
+++++	-----	+++++	-----	-----	-----	0301,2602	=	0502,2602
+++++	-----	+++++	-----	-----	-----	0301,3201	=	0502,3201
+++++	-----	+++++	-----	-----	-----	0301,1802	=	0502,1802
+++++	-----	+++++	-----	-----	-----	0301,4701	=	0502,4701
+++++	-----	+++++	-----	-----	-----	0301,7101	=	0502,7101
+++++	-----	+++++	-----	-----	-----	0301,4801	=	0502,4801
+++++	-----	+++++	-----	-----	-----	0301,1601	=	0502,1601
+++++	-----	+++++	-----	-----	-----	0203,0301	=	0203,0502
+++++	-----	+++++	-----	-----	-----	0301,2201	=	0502,2201
+++++	-----	+++++	-----	-----	-----	0301,0403	=	0403,0502
+++++	-----	+++++	-----	-----	-----	0402,1702	=	0602,1702
+++++	-----	+++++	-----	-----	-----	0301,8001	=	0502,8001
+++++	-----	+++++	-----	-----	-----	7701,7801	=	7801,9401
+++++	-----	+++++	-----	-----	-----	0402,7801	=	0602,7801
+++++	-----	+++++	-----	-----	-----	1402,7701	=	1402,9401
+++++	-----	+++++	-----	-----	-----	6101N,7701	=	6101N,9401
+++++	-----	+++++	-----	-----	-----	0301,7701	=	0301,9401 =
						0502,7701	=	0502,9401
+++++	-----	+++++	-----	-----	-----	0301,8201	=	0502,8201
+++++	-----	+++++	-----	-----	-----	0402,1402	=	0602,1402
+++++	-----	+++++	-----	-----	-----	0301,6001	=	0502,6001
+++++	-----	+++++	-----	-----	-----	0402,6101N	=	0602,6101N
+++++	-----	+++++	-----	-----	-----	0301,2301	=	0502,2301
+++++	-----	+++++	-----	-----	-----	0402,5201	=	0602,5201 =
						2301,2501		
+++++	-----	+++++	-----	-----	-----	2501,7701	=	2501,9401
+++++	-----	+++++	-----	-----	-----	0402,2501	=	0602,2501
+++++	-----	+++++	-----	-----	-----	7701,7901	=	7901,9401
+++++	-----	+++++	-----	-----	-----	0402,7901	=	0602,7901
+++++	-----	+++++	-----	-----	-----	0102,0301	=	0102,0502
+++++	-----	+++++	-----	-----	-----	0301,9701	=	0502,9701
+++++	-----	+++++	-----	-----	-----	0301,3801	=	0501,1402 =
						0502,3801	=	1402,3801
+++++	-----	+++++	-----	-----	-----	0301,0501	=	0501,0502
+++++	-----	+++++	-----	-----	-----	0301,1502	=	0502,1502
+++++	-----	+++++	-----	-----	-----	0301,1902	=	0502,1902
+++++	-----	+++++	-----	-----	-----	1502,2501	=	1902,5201
+++++	-----	+++++	-----	-----	-----	0301,6301	=	0502,6301
+++++	-----	+++++	-----	-----	-----	0301,6201	=	0502,6201
+++++	-----	+++++	-----	-----	-----	0301,8101	=	0502,8101
+++++	-----	+++++	-----	-----	-----	0301,4101	=	0502,4101
+++++	-----	+++++	-----	-----	-----	0301,9501	=	0502,9501
+++++	-----	+++++	-----	-----	-----	0301,8601	=	0502,8601
+++++	-----	+++++	-----	-----	-----	0301,1602	=	0502,1602
+++++	-----	+++++	-----	-----	-----	0301,1102	=	0502,1102
+++++	-----	+++++	-----	-----	-----	0301,1002	=	0502,1002
+++++	-----	+++++	-----	-----	-----	0301,5901	=	0502,5901
+++++	-----	+++++	-----	-----	-----	0301,8301	=	0502,8301
+++++	-----	+++++	-----	-----	-----	2901,3601	=	3601,4401
+++++	-----	+++++	-----	-----	-----	0301,1701	=	0502,1701
+++++	-----	+++++	-----	-----	-----	0301,6401N	=	0502,6401N =
						0601,1402	=	1402,6401N
+++++	-----	+++++	-----	-----	-----	0301,0601	=	0502,0601
+++++	-----	+++++	-----	-----	-----	0301,9301	=	0502,9301
+++++	-----	+++++	-----	-----	-----	3701,8701	=	5201,9301
+++++	-----	+++++	-----	-----	-----	0301,3601	=	0502,3601
+++++	-----	+++++	-----	-----	-----	0301,2101	=	0502,2101
+++++	-----	+++++	-----	-----	-----	1702,5501	=	1702,5801
+++++	-----	+++++	-----	-----	-----	1702,2101	=	1702,3601



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Lot-specific Information

++-----	+-----+	+++++--	-----	----++++	+-----+	0301,3401	=	0502,3401
++-----	+-----+	+++++--	+--+--+	----++++	+-----+	0301,5801	=	0502,5801
++-----	+-----+	+++++--	--+--+	----++++	+-----+	0301,9801	=	0502,9801
++-----	+-----+	+++++--	--+--+	----++++	+-----+	0301,9101	=	0502,9101
++-----	+-----+	+++++--	-----	----++++	+-----+	2001,7801	=	6901,7801
++-----	+-----+	+++++--	--+---	----++++	+-----+	1402,2001	=	1402,6901
++-----	+-----+	+++++--	--+---	----++++	+-----+	2001,6101N	=	6101N,6901
++-----	+-----+	+++++--	--+---	----++++	+-----+	0301,6901	=	0502,6901
++-----	+-----+	+++++--	--+---	----++++	+-----+	0301,2001	=	0502,2001
++-----	+-----+	+++++--	--+--+	----++++	+-----+	0301,3001	=	0502,3001
++-----	+-----+	+++++--	--+--+	----++++	+-----+	0301,5501	=	0502,5501
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,8701	=	0502,8701
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,1801	=	0502,1801
++-----	+-----+	+++++--	--+--+	----++++	+-----+	2001,7901	=	6901,7901
++-----	+-----+	+++++--	--+---	----++++	+-----+	2001,2501	=	2501,6901
++-----	+-----+	+++++--	+--+---	----++++	+-----+	3001,5201	=	5201,5501
++-----	+-----+	+++++--	+--+---	----++++	+-----+	1702,2901	=	1702,4401
++-----	+-----+	+++++--	+--+---	----++++	+-----+	0301,4401	=	0502,4401
++-----	+-----+	+++++--	+--+---	----++++	+-----+	2501,8801	=	2901,7901
++-----	+-----+	+++++--	+--+---	----++++	+-----+	0301,8801	=	0502,8801
++-----	+-----+	+++++--	+--+---	----++++	+-----+	0301,2901	=	0502,2901
++-----	+-----+	+++++--	--+--+	----++++	+-----+	0301,1001	=	0502,1001
++-----	+-----+	+++++--	--+--+	----++++	+-----+	0301,3701	=	0502,3701
++-----	+-----+	+++++--	+--+---	----++++	+-----+	0301,1702	=	0502,1702 =
						1702,7001		
++-----	+-----+	+++++--	+--+---	----++++	+-----+	0301,7001	=	0502,7001
++-----	+-----+	+++++--	--+--+	----++++	+-----+	0301,5401	=	0502,5401
++-----	+-----+	+++++--	--+---	----++++	+-----+	1401,7901	=	2202,2501 =
						2202,7901		
++-----	+-----+	+++++--	--+---	----++++	+-----+	0301,2202	=	0502,2202
++-----	+-----+	+++++--	--+---	----++++	+-----+	0301,350101	=	0502,350101
++-----	+-----+	+++++--	--+---	----++++	+-----+	0301,7901	=	0502,7901 =
						2501,350102		
++-----	+-----+	+++++--	--+---	----++++	+-----+	0301,350102	=	0502,350102
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,6701	=	0502,6701
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,4501	=	0502,4501
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,5201	=	0502,5201
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,2501	=	0502,2501
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,7801	=	0502,7801 =
						7801,7801		
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,1402	=	0502,1402 =
						1402,1402		
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,6101N	=	0502,6101N =
						6101N,6101N		
++-----	+-----+	+++++--	-----	----++++	+-----+	0301,0502	=	0502,0502
++-----	+-----+	+++++--	-----	----++++	+-----+	2501,6701	=	4501,5201
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,6501	=	1301,6501 =
						1302,6501		
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,2401	=	1301,2401
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,9901	=	1301,9901
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,5101	=	1301,5101
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,2302N	=	1301,2302N
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,2402	=	1301,2402
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,4901	=	1301,4901
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,5301	=	1301,5301
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,9601	=	1301,9601
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,3901	=	1301,3901
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,4001	=	1301,4001
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,7201	=	1301,7201
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,6601	=	1301,6601
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,7601	=	1301,7601
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,2801	=	1301,2801
++++++	+-----+	+++++--	--+---	----++++	+-----+	0902,3101	=	1301,3101
++++++	+-----+	+++++--	--+---	----++++	+-----+	0302,0902	=	0302,1301
++++++	+-----+	+++++--	--+---	----++++	+-----+	0801,0902	=	0801,1301

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Lot-specific Information

++++++	-----	++++	-----	++++	-----	0902,7501 = 1301,7501
++++++	-----	++++	-----	++++	-----	0902,6801 = 1301,6801
++++++	-----	++++	-----	++++	-----	0902,8401 = 1301,8401
++++++	-----	++++	-----	++++	-----	0902,7301 = 1301,7301
++++++	-----	++++	-----	++++	-----	0902,5701 = 1301,5701
++++++	-----	++++	-----	++++	-----	0802,1302 = 1302,1901
++++++	-----	++++	-----	++++	-----	0902,4601 = 1301,4601
++++++	-----	++++	-----	++++	-----	0902,3201 = 1301,3201
++++++	-----	++++	-----	++++	-----	0902,1802 = 1301,1802
++++++	-----	++++	-----	++++	-----	0902,2602 = 1301,2602
++++++	-----	++++	-----	++++	-----	0902,4701 = 1301,4701
++++++	-----	++++	-----	++++	-----	0902,7101 = 1301,7101
++++++	-----	++++	-----	++++	-----	0902,4801 = 1301,4801
++++++	-----	++++	-----	++++	-----	0902,1601 = 1301,1601
++++++	-----	++++	-----	++++	-----	0203,0902 = 0203,1301
++++++	-----	++++	-----	++++	-----	0902,2201 = 1301,2201
++++++	-----	++++	-----	++++	-----	0403,0902 = 0403,1301
++++++	-----	++++	-----	++++	-----	0902,8001 = 1301,8001
++++++	-----	++++	-----	++++	-----	0902,7701 = 1301,7701
++++++	-----	++++	-----	++++	-----	0902,8201 = 1301,8201
++++++	-----	++++	-----	++++	-----	0902,6001 = 1301,6001
++++++	-----	++++	-----	++++	-----	0902,9401 = 1301,9401
++++++	-----	++++	-----	++++	-----	0902,2301 = 1301,2301
++++++	-----	++++	-----	++++	-----	0102,0902 = 0102,1301
++++++	-----	++++	-----	++++	-----	0902,9701 = 1301,9701
++++++	-----	++++	-----	++++	-----	0902,3801 = 1301,3801
++++++	-----	++++	-----	++++	-----	0902,1902 = 1301,1902
++++++	-----	++++	-----	++++	-----	0902,1502 = 1301,1502
++++++	-----	++++	-----	++++	-----	0902,6301 = 1301,6301
++++++	-----	++++	-----	++++	-----	0902,6201 = 1301,6201
++++++	-----	++++	-----	++++	-----	0902,8101 = 1301,8101
++++++	-----	++++	-----	++++	-----	0902,3301 = 1301,3301
++++++	-----	++++	-----	++++	-----	0902,4101 = 1301,4101
++++++	-----	++++	-----	++++	-----	0902,9501 = 1301,9501
++++++	-----	++++	-----	++++	-----	0902,8601 = 1301,8601
++++++	-----	++++	-----	++++	-----	0902,1602 = 1301,1602
++++++	-----	++++	-----	++++	-----	0902,1102 = 1102,1301
++++++	-----	++++	-----	++++	-----	0902,1002 = 1002,1301
++++++	-----	++++	-----	++++	-----	0902,5901 = 1301,5901
++++++	-----	++++	-----	++++	-----	0902,8301 = 1301,8301
++++++	-----	++++	-----	++++	-----	0902,6401N = 1301,6401N
++++++	-----	++++	-----	++++	-----	0601,0902 = 0601,1301
++++++	-----	++++	-----	++++	-----	0902,1701 = 1301,1701
++++++	-----	++++	-----	++++	-----	0902,9301 = 1301,9301
++++++	-----	++++	-----	++++	-----	0902,2101 = 1301,2101
++++++	-----	++++	-----	++++	-----	0902,9101 = 1301,9101
++++++	-----	++++	-----	++++	-----	0902,9801 = 1301,9801
++++++	-----	++++	-----	++++	-----	0902,6901 = 1301,6901
++++++	-----	++++	-----	++++	-----	0902,3401 = 1301,3401
++++++	-----	++++	-----	++++	-----	0902,5801 = 1301,5801
++++++	-----	++++	-----	++++	-----	0902,3001 = 1301,3001
++++++	-----	++++	-----	++++	-----	0902,5501 = 1301,5501
++++++	-----	++++	-----	++++	-----	0902,4401 = 1301,4401
++++++	-----	++++	-----	++++	-----	0902,2901 = 1301,2901
++++++	-----	++++	-----	++++	-----	0902,8801 = 1301,8801
++++++	-----	++++	-----	++++	-----	0902,1001 = 1001,1301
++++++	-----	++++	-----	++++	-----	0902,3701 = 1301,3701
++++++	-----	++++	-----	++++	-----	0902,7001 = 1301,7001
++++++	-----	++++	-----	++++	-----	0902,2202 = 1301,2202
++++++	-----	++++	-----	++++	-----	0902,350101 = 1301,350101
++++++	-----	++++	-----	++++	-----	0902,350102 = 1301,350102
++++++	-----	++++	-----	++++	-----	0902,4501 = 1301,4501
++++++	-----	++++	-----	++++	-----	0902,1101 = 1101,1301
++++++	-----	++++	-----	++++	-----	0902,6701 = 1301,6701
++++++	-----	++++	-----	++++	-----	0902,7401 = 1301,7401

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+++++--	-----	+--+--+	---+--+	+----++	---+--+	0902,2002 = 1301,2002
+++++--	-----	+--+---	---+--+	+----++	---+--+	0902,5401 = 1301,5401
+++++--	-----	+--+---	---+--+	+----++	---+--+	0902,1302 = 1301,1302
+++++--	-----	+--+---	---+--+	+----++	-----	0902,0902 = 0902,1301
+++++--	+++++--	+--+---	---+--+	+----++	---+--+	0201,1302 = 1302,2602
+++++--	+++++--	+--+---	---+--+	+----++	---+--+	0402,1302 = 0602,1302
+++++--	-----	+++++--	---+--+	+----++	---+--+	1302,1401 = 1302,2202
+++++--	+++++--	+++++--	++-----	-----	---+--+	0802,4401 = 1901,4401
+++++--	+++++--	+++++--	++-----	-----	---+--+	0802,2901 = 1901,2901
+++++--	+++++--	+--+---	---+--+	-----	---+--+	0802,3701 = 1901,3701
+++++--	+++++--	+++++--	++-----	-----	---+--+	2201,2901 = 2201,4401
+++++--	+++++--	+++++--	++-----	-----	---+--+	0402,4401 = 0602,4401
+++++--	+++++--	+++++--	++-----	-----	---+--+	0402,2901 = 0602,2901
+++++--	+++++--	+--+---	---+--+	-----	---+--+	0402,3701 = 0602,3701
+++++--	+++++--	+++++--	++-----	-----	---+--+	2901,9701 = 4401,9701
+++++--	+++++--	+++++--	++-----	-----	---+--+	2901,3801 = 3801,4401
+++++--	+++++--	+++++--	++-----	-----	---+--+	0501,2901 = 0501,4401
+++++--	+++++--	+++++--	++-----	-----	---+--+	2901,6301 = 4401,6301
+++++--	+++++--	+++++--	++-----	-----	---+--+	2101,2901 = 2101,4401
+++++--	+++++--	+++++--	++-----	-----	---+--+	0601,4401 = 4401,6901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2901,5801 = 4401,5501 = 4401,5801
+++++--	+++++--	+++++--	++-----	-----	---+--+	0601,2901 = 2901,6901
+++++--	+++++--	+++++--	++-----	-----	---+--+	350102,4401 = 7001,8801
+++++--	+++++--	+++++--	++-----	-----	---+--+	2901,7001 = 4401,7001
+++++--	+++++--	+++++--	++-----	-----	---+--+	2202,2901 = 2202,8801
+++++--	+++++--	+++++--	++-----	-----	---+--+	1401,3701 = 2202,3701
+++++--	+++++--	+++++--	++-----	-----	---+--+	1001,4401 = 4401,5401
+++++--	+++++--	+++++--	++-----	-----	---+--+	2901,4401 = 4401,4401
+++++--	+++++--	+++++--	++-----	-----	---+--+	1001,2901 = 2901,5401
+++++--	+++++--	+++++--	++-----	-----	---+--+	1001,8801 = 5401,8801
+++++--	+++++--	+++++--	++-----	-----	---+--+	1001,3701 = 3701,5401
+++++--	+++++--	+++++--	++-----	-----	---+--+	0802,2701 = 1901,2701
+++++--	+++++--	+++++--	++-----	-----	---+--+	0802,8901 = 1901,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	0402,2701 = 0602,2701
+++++--	+++++--	+++++--	++-----	-----	---+--+	0402,8901 = 0602,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	0401,8701 = 2402,8701
+++++--	+++++--	+++++--	++-----	-----	---+--+	1701,2701 = 1701,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,9301 = 8901,9301
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,3601 = 3601,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2101,2701 = 2101,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,9801 = 8901,9801
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,5801 = 5801,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,5501 = 5501,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,3001 = 3001,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	0901,2701 = 0901,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	1001,2701 = 1001,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	1401,2701 = 2202,2701 = 2202,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,350101 = 350101,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,350102 = 350102,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,5401 = 5401,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,8501 = 8501,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	2701,2701 = 2701,8901
+++++--	+++++--	+++++--	++-----	-----	---+--+	0802,3601 = 1901,3601
+++++--	+++++--	+++++--	++-----	-----	---+--+	0802,8701 = 1901,8701
+++++--	+++++--	+++++--	++-----	-----	---+--+	2001,6801 = 2001,8401
+++++--	+++++--	+++++--	++-----	-----	---+--+	1801,6801 = 1801,8401
+++++--	+++++--	+++++--	++-----	-----	---+--+	0402,3601 = 0602,3601
+++++--	+++++--	+++++--	++-----	-----	---+--+	2001,7701 = 2001,9401
+++++--	+++++--	+++++--	++-----	-----	---+--+	0402,8701 = 0602,8701
+++++--	+++++--	+++++--	++-----	-----	---+--+	1801,7701 = 1801,9401
+++++--	+++++--	+++++--	++-----	-----	---+--+	1401,3601 = 2202,3601
+++++--	+++++--	+++++--	++-----	-----	---+--+	3601,5501 = 3601,5801
+++++--	+++++--	+++++--	++-----	-----	---+--+	2101,3601 = 3601,3601



Lot No.: 47G

Lot-specific Information

-----+	-----+	-----+	-----+	-----+	-----+	3001,8701	=	5501,8701
-----+	-----+	-----+	-----+	-----+	-----+	0202,6501	=	0203,6501
-----+	-----+	-----+	-----+	-----+	-----+	0802,6501	=	1901,6501
-----+	-----+	-----+	-----+	-----+	-----+	6001,6501	=	6501,8301
-----+	-----+	-----+	-----+	-----+	-----+	0402,6501	=	0602,6501
-----+	-----+	-----+	-----+	-----+	-----+	1401,6501	=	6501,7601
-----+	-----+	-----+	-----+	-----+	-----+	6501,6501	=	6501,8401
-----+	-----+	-----+	-----+	-----+	-----+	0802,9901	=	1901,9901
-----+	-----+	-----+	-----+	-----+	-----+	0802,6601	=	1901,6601
-----+	-----+	-----+	-----+	-----+	-----+	0802,7201	=	1901,7201
-----+	-----+	-----+	-----+	-----+	-----+	0802,2302N	=	1901,2302N
-----+	-----+	-----+	-----+	-----+	-----+	0802,2402	=	1901,2402
-----+	-----+	-----+	-----+	-----+	-----+	0802,9601	=	1901,9601
-----+	-----+	-----+	-----+	-----+	-----+	0802,3901	=	1901,3901
-----+	-----+	-----+	-----+	-----+	-----+	0802,4001	=	1901,4001
-----+	-----+	-----+	-----+	-----+	-----+	0802,3101	=	1901,3101
-----+	-----+	-----+	-----+	-----+	-----+	0302,0802	=	0302,1901
-----+	-----+	-----+	-----+	-----+	-----+	0401,7301	=	7201,7501
-----+	-----+	-----+	-----+	-----+	-----+	0201,9901	=	0401,4801 =
						4801,9901		
-----+	-----+	-----+	-----+	-----+	-----+	0401,4601	=	3901,4601
-----+	-----+	-----+	-----+	-----+	-----+	0201,9601	=	1802,9601 =
						3901,4101	=	4101,9601
-----+	-----+	-----+	-----+	-----+	-----+	0201,3901	=	0401,1802 =
						1802,3901		
-----+	-----+	-----+	-----+	-----+	-----+	0203,0401	=	0203,9901
-----+	-----+	-----+	-----+	-----+	-----+	0401,9501	=	2402,9501 =
						9501,9901		
-----+	-----+	-----+	-----+	-----+	-----+	0401,0403	=	0403,2402
-----+	-----+	-----+	-----+	-----+	-----+	0401,7101	=	2402,7101
-----+	-----+	-----+	-----+	-----+	-----+	0202,3101	=	0203,3101
-----+	-----+	-----+	-----+	-----+	-----+	0202,0302	=	0203,0302
-----+	-----+	-----+	-----+	-----+	-----+	0401,6401N	=	0601,2302N =
						2302N,6401N		
-----+	-----+	-----+	-----+	-----+	-----+	0401,8601	=	3901,8601
-----+	-----+	-----+	-----+	-----+	-----+	0102,0401	=	0102,9901
-----+	-----+	-----+	-----+	-----+	-----+	0401,3801	=	0501,2302N =
						2302N,3801		
-----+	-----+	-----+	-----+	-----+	-----+	0401,1902	=	1902,9901
-----+	-----+	-----+	-----+	-----+	-----+	6001,9901	=	8301,9901
-----+	-----+	-----+	-----+	-----+	-----+	0402,9901	=	0602,9901
-----+	-----+	-----+	-----+	-----+	-----+	0401,1502	=	1502,2402 =
						1502,9901		
-----+	-----+	-----+	-----+	-----+	-----+	0401,1002	=	1002,3901 =
						7201,8001		
-----+	-----+	-----+	-----+	-----+	-----+	0401,8001	=	3901,8001
-----+	-----+	-----+	-----+	-----+	-----+	0402,6601	=	0602,6601
-----+	-----+	-----+	-----+	-----+	-----+	2402,6001	=	2402,8301
-----+	-----+	-----+	-----+	-----+	-----+	0401,5901	=	0402,7201 =
						0602,7201		
-----+	-----+	-----+	-----+	-----+	-----+	2302N,6001	=	2302N,8301
-----+	-----+	-----+	-----+	-----+	-----+	0402,2302N	=	0602,2302N
-----+	-----+	-----+	-----+	-----+	-----+	0402,9601	=	0602,9601 =
						3901,6001	=	3901,8301 =
						6001,9601	=	8301,9601
-----+	-----+	-----+	-----+	-----+	-----+	0402,3901	=	0602,3901
-----+	-----+	-----+	-----+	-----+	-----+	0401,6001	=	0401,8301
-----+	-----+	-----+	-----+	-----+	-----+	0302,7701	=	0402,3101 =
						0602,3101	=	3101,7701
-----+	-----+	-----+	-----+	-----+	-----+	0302,0402	=	0302,0602
-----+	-----+	-----+	-----+	-----+	-----+	4001,6001	=	4001,8301
-----+	-----+	-----+	-----+	-----+	-----+	0402,4001	=	0602,4001
-----+	-----+	-----+	-----+	-----+	-----+	0401,5801	=	2402,5801
-----+	-----+	-----+	-----+	-----+	-----+	0401,5501	=	2402,5501
-----+	-----+	-----+	-----+	-----+	-----+	0401,6301	=	2402,6301



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Lot-specific Information

---+-----	+-----+	-----+	-----	-----+	-----+	0401,3401	=	2402,3401
---+-----	+-----+	-----+	-----	-----+	-----+	0401,6201	=	2402,6201
---+-----	+-----+	-----+	-----	-----+	-----+	0401,2301	=	2301,2402
---+-----	+-----+	-----+	-----	-----+	-----+	0302,9401	=	3101,9401
---+-----	+-----+	-----+	-----	-----+	-----+	0401,9901	=	9901,9901
---+-----	+-----+	-----+	-----	-----+	-----+	0401,2801	=	5301,7201
---+-----	+-----+	-----+	-----	-----+	-----+	0401,5301	=	4001,5101
---+-----	+-----+	-----+	-----	-----+	-----+	0401,4901	=	3901,5101
---+-----	+-----+	-----+	-----	-----+	-----+	0401,6701	=	2402,6701
---+-----	+-----+	-----+	-----	-----+	-----+	0401,2302N	=	2302N,2302N
---+-----	+-----+	-----+	-----	-----+	-----+	0401,2402	=	2402,2402
---+-----	+-----+	-----+	-----	-----+	-----+	3901,5301	=	4001,4901
---+-----	+-----+	-----+	-----	-----+	-----+	3901,9601	=	9601,9601
---+-----	+-----+	-----+	-----	-----+	-----+	0302,3401	=	3101,3401
---+-----	+-----+	-----+	-----	-----+	-----+	1401,6601	=	2202,6601
---+-----	+-----+	-----+	-----	-----+	-----+	0302,3101	=	3101,3101
---+-----	+-----+	-----+	-----	-----+	-----+	0802,3301	=	1901,3301
---+-----	+-----+	-----+	-----	-----+	-----+	0802,1101	=	1101,1901
---+-----	+-----+	-----+	-----	-----+	-----+	0802,7401	=	1901,7401
---+-----	+-----+	-----+	-----	-----+	-----+	0802,2002	=	1901,2002
---+-----	+-----+	-----+	-----	-----+	-----+	0201,2002	=	1802,2002 =
						2002,2602		
---+-----	+-----+	-----+	-----	-----+	-----+	0201,3301	=	2602,3301
---+-----	+-----+	-----+	-----	-----+	-----+	3301,6001	=	3301,8301
---+-----	+-----+	-----+	-----	-----+	-----+	0402,3301	=	0602,3301
---+-----	+-----+	-----+	-----	-----+	-----+	2301,3301	=	3301,7101
---+-----	+-----+	-----+	-----	-----+	-----+	0402,1101	=	0602,1101
---+-----	+-----+	-----+	-----	-----+	-----+	0402,7401	=	0602,7401
---+-----	+-----+	-----+	-----	-----+	-----+	0402,2002	=	0602,2002
---+-----	+-----+	-----+	-----	-----+	-----+	1401,2002	=	2002,2202
---+-----	+-----+	-----+	-----	-----+	-----+	0802,7601	=	1901,7601
---+-----	+-----+	-----+	-----	-----+	-----+	6801,7601	=	7601,8401
---+-----	+-----+	-----+	-----	-----+	-----+	0802,5101	=	1901,5101
---+-----	+-----+	-----+	-----	-----+	-----+	0802,2401	=	1901,2401
---+-----	+-----+	-----+	-----	-----+	-----+	0802,4901	=	1901,4901
---+-----	+-----+	-----+	-----	-----+	-----+	0802,2801	=	1901,2801
---+-----	+-----+	-----+	-----	-----+	-----+	0802,5301	=	1901,5301
---+-----	+-----+	-----+	-----	-----+	-----+	5101,6801	=	5101,8401
---+-----	+-----+	-----+	-----	-----+	-----+	2801,7501	=	5301,7301
---+-----	+-----+	-----+	-----	-----+	-----+	4901,6801	=	4901,8401
---+-----	+-----+	-----+	-----	-----+	-----+	2801,6801	=	2801,8401
---+-----	+-----+	-----+	-----	-----+	-----+	5301,6801	=	5301,8401
---+-----	+-----+	-----+	-----	-----+	-----+	7601,7701	=	7601,9401
---+-----	+-----+	-----+	-----	-----+	-----+	0402,7601	=	0602,7601
---+-----	+-----+	-----+	-----	-----+	-----+	6901,7601	=	7601,9101
---+-----	+-----+	-----+	-----	-----+	-----+	2202,7601	=	350101,7601 =
						350102,7601		
---+-----	+-----+	-----+	-----	-----+	-----+	1401,7601	=	7601,7601
---+-----	+-----+	-----+	-----	-----+	-----+	4601,4901	=	4601,5101
---+-----	+-----+	-----+	-----	-----+	-----+	0201,4901	=	1802,4901 =
						1802,5101		
---+-----	+-----+	-----+	-----	-----+	-----+	4901,8601	=	5101,8601
---+-----	+-----+	-----+	-----	-----+	-----+	2401,6001	=	2401,8301
---+-----	+-----+	-----+	-----	-----+	-----+	0402,2401	=	0602,2401
---+-----	+-----+	-----+	-----	-----+	-----+	1002,4901	=	1002,5101
---+-----	+-----+	-----+	-----	-----+	-----+	4901,8001	=	5101,8001
---+-----	+-----+	-----+	-----	-----+	-----+	4901,7701	=	4901,9401
---+-----	+-----+	-----+	-----	-----+	-----+	5101,7701	=	5101,9401
---+-----	+-----+	-----+	-----	-----+	-----+	4901,6001	=	4901,8301
---+-----	+-----+	-----+	-----	-----+	-----+	0402,4901	=	0602,4901
---+-----	+-----+	-----+	-----	-----+	-----+	5101,6001	=	5101,8301
---+-----	+-----+	-----+	-----	-----+	-----+	0402,5101	=	0602,5101
---+-----	+-----+	-----+	-----	-----+	-----+	1002,5301	=	2801,8001
---+-----	+-----+	-----+	-----	-----+	-----+	2801,7701	=	2801,9401

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Lot-specific Information

-----+ +-----+ -----	-----	-----+--+	-----+ 0402,2801 = 0602,2801 =
			5301,5901
-----+ +-----+ -----	-----	-----+--+ +-----+ 5301,7701 = 5301,9401	
-----+ +-----+ -----	-----	-----+--+ +-----+ 5301,6001 = 5301,8301	
-----+ +-----+ -----	-----	-----+--+ +-----+ 0402,5301 = 0602,5301	
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,8601 = 1901,8601		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,8101 = 1901,8101		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,4601 = 1901,4601		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,1602 = 1602,1901		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,1102 = 1102,1901		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,2602 = 1901,2602		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,3201 = 1901,3201		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,1802 = 1802,1901		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,4101 = 1901,4101		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,5901 = 1601,7301		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,8201 = 3201,6801		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,6001 = 0801,8301 =		
			4101,6801
-----+ +-----+ -----	-----+ +-----+ +-----+ 0201,6801 = 0402,0801 =		
			0602,0801 = 1601,7501
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,4601 = 4601,8401		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,2602 = 2602,8401		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,2301 = 0801,7101		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,3201 = 3201,8401		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,1802 = 1802,8401		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,4101 = 4101,8401		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0201,0801 = 0201,8401		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,1002 = 1002,1901		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,8001 = 1901,8001		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,5901 = 0802,7301 =		
			1901,5901 = 1901,7301
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,7701 = 1901,7701		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,8201 = 1901,8201		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,6001 = 0802,8301 =		
			1901,6001 = 1901,8301
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,7501 = 1901,7501 =		
			4701,6801
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,7101 = 1901,7101		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,9401 = 1901,9401		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,4701 = 1901,4701 =		
			4701,8401
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,2301 = 1901,2301		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0403,7501 = 6801,7101		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0202,0801 = 0203,0801		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,4801 = 1901,4801		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,6401N = 1901,6401N		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,1701 = 1701,1901		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,1001 = 1001,1901		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,9301 = 1901,9301		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,0802 = 0801,1901		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,4801 = 4801,8401		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0801,1601 = 1601,8401		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0202,5701 = 0203,5701		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0202,6801 = 0203,6801		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0102,0802 = 0102,1901		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0202,8401 = 0203,0802 =		
			0203,1901 = 0203,8401
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,2101 = 1901,2101		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,9701 = 1901,9701		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,3801 = 1901,3801		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,2201 = 1901,2201 =		
			2201,8401
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,1902 = 1901,1902		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,1502 = 1502,1901		
-----+ +-----+ -----	-----+ +-----+ +-----+ 0802,9501 = 1901,9501		



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Lot-specific Information

-----+ +-----+ +++++--- +-----+ -----+ -+-----+ 0802,7001 = 1901,7001
-----+ +-----+ +++++--- -+-----+ -+-----+ -+-----+ 0802,2202 = 1901,2202
-----+ +-----+ +++++--- --+-----+ -+-----+ -+-----+ 0802,9101 = 1901,9101
-----+ +-----+ +-----+ ---+-----+ -----+ -+-----+ 0802,350101 = 1901,350101
-----+ +-----+ +-----+ ---+-----+ -----+ -+-----+ 0802,9801 = 1901,9801
-----+ +-----+ -----+ -----+ -----+ -+-----+ 0802,5701 = 1901,5701
-----+ +-----+ -----+ -----+ -----+ -+-----+ 0802,6801 = 1901,6801
-----+ +-----+ +-----+ --+-----+ -----+ -+-----+ 0802,6901 = 1901,6901
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 0802,6701 = 1901,6701
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 0802,5401 = 1901,5401
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 0802,5801 = 1901,5801
-----+ +-----+ +-----+ -----+ -----+ -+-----+ 0802,3001 = 1901,3001
-----+ +-----+ +-----+ -----+ -----+ -+-----+ 0802,5501 = 1901,5501
-----+ +-----+ -----+ +-----+ -----+ -+-----+ 0802,6301 = 1901,6301
-----+ +-----+ -----+ -----+ -----+ +-----+ 0802,3401 = 1901,3401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 0802,6201 = 1901,6201
-----+ +-----+ -----+ -----+ -----+ -+-----+ 0403,0802 = 0403,1901
-----+ +-----+ -----+ -----+ -----+ -+-----+ 0802,8401 = 1901,8401
-----+ +-----+ -----+ -----+ -----+ +-----+ 5701,7701 = 5701,9401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 0402,5701 = 0602,5701
-----+ +-----+ -----+ --+-----+ -----+ -+-----+ 1002,6801 = 1002,8401
-----+ +-----+ -----+ --+-----+ -----+ -+-----+ 6801,8001 = 8001,8401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 5901,6801 = 5901,8401
-----+ +-----+ -----+ -----+ -----+ +-----+ 6801,7701 = 6801,9401 =
7701,8401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 6801,8201 = 8201,8401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 6001,6801 = 6001,8401 =
6801,8301 = 8301,8401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 0402,6801 = 0402,8401 =
0602,6801 = 0602,8401
-----+ +-----+ -----+ --+-----+ -----+ -+-----+ 1002,7501 = 7301,8001
-----+ +-----+ -----+ -----+ -----+ +-----+ 7301,7701 = 7301,9401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 0402,7301 = 0602,7301 =
5901,7501
-----+ +-----+ -----+ -----+ -----+ +-----+ 7501,7701 = 7501,9401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 6001,7501 = 7501,8301
-----+ +-----+ -----+ -----+ -----+ -+-----+ 0402,7501 = 0602,7501
-----+ +-----+ -----+ -----+ -----+ -+-----+ 1902,6801 = 1902,8401
-----+ +-----+ +-----+ --+-----+ -+-----+ 6801,9101 = 8401,9101
-----+ +-----+ +-----+ --+-----+ -+-----+ 6801,9801 = 8401,9801
-----+ +-----+ -----+ -----+ +-----+ -+-----+ 0801,8101 = 8101,8401
-----+ +-----+ +-----+ --+-----+ -+-----+ 0801,1001 = 0801,5401
-----+ +-----+ -----+ -----+ -+-----+ -+-----+ 0801,0801 = 0801,8401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 6801,7301 = 7301,8401
-----+ +-----+ -----+ -----+ -----+ -+-----+ 6801,7501 = 7501,8401
-----+ +-----+ +-----+ +-----+ -+-----+ 6801,7001 = 7001,8401
-----+ +-----+ +-----+ --+-----+ -+-----+ 2202,6801 = 2202,8401
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 1401,6801 = 1401,8401
-----+ +-----+ +-----+ --+-----+ -+-----+ -+-----+ 350101,6801 = 350101,8401
-----+ +-----+ +-----+ --+-----+ -+-----+ -+-----+ 350102,6801 = 350102,8401
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 4501,6801 = 4501,8401
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 5701,6801 = 5701,8401
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 6801,6801 = 6801,8401
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 0201,9701 = 0501,3201 =
3201,9701
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 4801,6001 = 4801,8301
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 0402,4801 = 0602,4801
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 2301,4801 = 4801,7101
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 6001,8101 = 8101,8301
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 0402,8101 = 0602,8101
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 1601,6001 = 1601,8301
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 1002,4601 = 4601,5901
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 4601,6001 = 4601,8301
-----+ +-----+ +-----+ -----+ -+-----+ -+-----+ 0402,4601 = 0602,4601 =
4601,8001



Lot No.: 47G

Lot-specific Information

-----+	++++-----	-----	--+-----	-----+--	-----+--	0201,1002 = 1002,1802
-----+	++++-----	-----	--+-----	-----+--	-----+--	0201,8001 = 1802,8001
-----+	++++-----	-----	-----	+-----+--	-----+--	2602,6001 = 2602,8301
-----+	++++-----	-----	-----	-----+--	-----+--	3201,6001 = 3201,8301 = 4101,8201
-----+	++++-----	-----	-----	-----+--	-----+--	0201,8201 = 0402,3201 = 0602,3201 = 3201,8201
-----+	++++-----	-----	-----	-----+--	-----+--	1802,6001 = 1802,8301
-----+	++++-----	-----	-----	-----+--	-----+--	0402,1802 = 0602,1802
-----+	++++-----	-----	-----	-----+--	-----+--	0201,6001 = 0201,8301 = 0402,4101 = 0602,4101 = 4101,6001
-----+	++++-----	+++-----	--+-----	-----+--	-----+--	1802,6401N = 4601,6401N
-----+	++++-----	+++-----	--+-----	-----+--	-----+--	0601,1802 = 0601,4601 = 4601,6901
-----+	++++-----	++-----	-----	-----+--	-----+--	1701,1802 = 1701,4601
-----+	++++-----	+-----	-----	-----+--	-----+--	1001,4601 = 4601,5401
-----+	++++-----	+-----	-----	-----+--	-----+--	1001,2602 = 2602,5401
-----+	++++-----	+-----	-----	-----+--	-----+--	1001,3201 = 3201,5401
-----+	++++-----	+-----	-----	-----+--	-----+--	1001,1802 = 1802,5401
-----+	++++-----	+-----	-----	-----+--	-----+--	0201,1001 = 0201,5401
-----+	++++-----	+-----	-----	-----+--	-----+--	0201,8601 = 1802,8601 = 4601,8601
-----+	++++-----	-----	-----	-----+--	-----+--	2301,8101 = 7101,8101
-----+	++++-----	-----	-----	-----+--	-----+--	0201,8101 = 2602,8101
-----+	++++-----	-----	-----	-----+--	-----+--	0201,0403 = 1601,7101
-----+	++++-----	-----	-----	-----+--	-----+--	2301,4601 = 4601,7101
-----+	++++-----	-----	-----	-----+--	-----+--	0201,4601 = 1802,4601 = 4601,4601
-----+	++++-----	-----	-----	-----+--	-----+--	0201,2602 = 2602,2602
-----+	++++-----	-----	-----	-----+--	-----+--	2301,3201 = 3201,7101
-----+	++++-----	-----	-----	-----+--	-----+--	1802,2301 = 1802,7101
-----+	++++-----	-----	-----	-----+--	-----+--	2301,4101 = 4101,7101
-----+	++++-----	-----	-----	-----+--	-----+--	0201,3201 = 3201,3201
-----+	++++-----	-----	-----	-----+--	-----+--	0201,1802 = 1802,1802
-----+	+++++-----	-----	-----	-----+--	-----+--	0203,6001 = 0203,8301
-----+	+++++-----	-----	-----	-----+--	-----+--	0203,0402 = 0203,0602
-----+	+++++-----	-----	-----	-----+--	-----+--	0202,6001 = 0202,8301
-----+	+++++-----	-----	-----	-----+--	-----+--	0203,2301 = 0203,7101
-----+	+++++-----	-----	-----	-----+--	-----+--	2201,6001 = 2201,8301
-----+	+++++-----	-----	-----	-----+--	-----+--	0402,2201 = 0602,2201
-----+	+++++-----	-----	-----	-----+--	-----+--	2201,2301 = 2201,7101
-----+	+++++-----	-----	-----	-----+--	-----+--	4701,6001 = 4701,8301
-----+	+++++-----	-----	-----	-----+--	-----+--	0402,4701 = 0602,4701
-----+	+++++-----	-----	-----	-----+--	-----+--	2301,4701 = 4701,7101
-----+	+++++-----	-----	-----	-----+--	-----+--	0402,9501 = 0602,9501
-----+	+++++-----	-----	-----	-----+--	-----+--	2301,9501 = 7101,9501
-----+	+++++-----	-----	-----	-----+--	-----+--	0403,6001 = 0403,8301
-----+	+++++-----	-----	-----	-----+--	-----+--	0402,0403 = 0403,0602
-----+	+++++-----	-----	-----	-----+--	-----+--	6001,7101 = 7101,8301
-----+	+++++-----	-----	-----	-----+--	-----+--	0402,7101 = 0602,7101
-----+	+++++-----	+-----	-----	-----+--	-----+--	3001,7101 = 5501,7101
-----+	+++++-----	+-----	-----	-----+--	-----+--	0403,2301 = 0403,7101
-----+	+++++-----	-----	-----	-----+--	-----+--	2301,7101 = 7101,7101
-----+	+++++-----	+-----	-----	-----+--	-----+--	1001,4801 = 4801,5401
-----+	+++++-----	+-----	-----	-----+--	-----+--	1001,1601 = 1601,5401
-----+	+++++-----	-----	-----	-----+--	-----+--	0202,6301 = 0203,6301 = 1502,2201
-----+	+++++-----	-----	-----	-----+--	-----+--	0202,9701 = 0203,9701
-----+	+++++-----	-----	-----	-----+--	-----+--	0202,3801 = 0203,3801
-----+	+++++-----	-----	-----	-----+--	-----+--	0102,2201 = 0203,0501
-----+	+++++-----	-----	-----	-----+--	-----+--	0202,2201 = 0203,2201
-----+	+++++-----	-----	-----	-----+--	-----+--	0202,0403 = 0203,0403
-----+	+++++-----	-----	-----	-----+--	-----+--	0202,0203 = 0203,0203
-----+	+++++-----	+-----	-----	-----+--	-----+--	2201,5501 = 2201,5801



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-----+	++-----	-----++	+-----+	-----++	-----+	0403,0501 = 2201,6301
-----+	++-----	-----++	---+---+	-----++	-----+	0403,3001 = 0403,5501
-----+	++++-----	++++-----	---+-----	-----++	-----+	0402,6401N = 0602,6401N
-----+	++++-----	++++-----	---+---+	-----++	-----+	0402,1001 = 0602,1001
-----+	++++-----	++++-----	---+---+	-----++	-----+	0402,9301 = 0602,9301
-----+	++++-----	---+-----	+++++---	-----++	-----+	0402,8601 = 0602,8601 = 8001,8601
-----+	++++-----	-----	---+---+	-----++	-----+	0402,1602 = 0602,1602
-----+	++++-----	-----	---+---+	-----++	-----+	0402,1102 = 0602,1102
-----+	+++++---	-----+	-----	-----++	-----+	0102,6001 = 0102,8301
-----+	+++++---	-----+	-----	-----++	-----+	0102,0402 = 0102,0602
-----+	+++++---	-----++	+-----+	-----++	-----+	6001,9701 = 8301,9701
-----+	+++++---	-----++	+-----+	-----++	-----+	0402,9701 = 0501,8201 = 0602,9701 = 8201,9701
-----+	+++++---	-----++	+-----+	-----++	-----+	3801,6001 = 3801,8301
-----+	+++++---	-----++	+-----+	-----++	-----+	0402,3801 = 0602,3801
-----+	+++++---	-----++	+-----+	-----++	-----+	0501,6001 = 0501,8301
-----+	+++++---	-----++	+-----+	-----++	-----+	0402,2101 = 0602,2101
-----+	+++++---	-----+	-----	-----++	-----+	1502,6001 = 1502,8301
-----+	+++++---	-----+	-----	-----++	-----+	0402,1502 = 0602,1502 = 1902,2301
-----+	+++++---	-----+	-----	-----++	+++++---	1902,7701 = 1902,9401
-----+	+++++---	-----+	-----	-----++	+++++---	1902,6001 = 1902,8301
-----+	+++++---	-----+	-----	-----++	+++++---	0402,1902 = 0602,1902
-----+	+++++---	+++++---	+-----+	-----++	+++++---	7001,7701 = 7001,9401
-----+	+++++---	+++++---	+-----+	-----++	+++++---	0402,7001 = 0602,7001
-----+	+++++---	+++++---	---+---+	-----++	+++++---	2202,7701 = 2202,9401
-----+	+++++---	+++++---	---+---+	-----++	+++++---	0402,2202 = 0602,2202
-----+	+++++---	+++++---	-----	-----++	+++++---	1401,7701 = 1401,9401
-----+	+++++---	+++++---	---+---+	-----++	+++++---	7701,9101 = 9101,9401
-----+	+++++---	+++++---	---+---+	-----++	+++++---	0402,9101 = 0602,9101
-----+	+++++---	+++++---	---+---+	-----++	+++++---	0402,6901 = 0602,6901
-----+	+++++---	+++++---	---+---+	-----++	+++++---	350101,7701 = 350101,9401
-----+	+++++---	+++++---	---+---+	-----++	+++++---	0402,350101 = 0602,350101
-----+	+++++---	+++++---	-----	-----++	+++++---	350102,7701 = 350102,9401
-----+	+++++---	+++++---	---+---+	-----++	+++++---	7701,9801 = 9401,9801
-----+	+++++---	+++++---	---+---+	-----++	+++++---	0402,9801 = 0602,9801
-----+	+++++---	+++++---	---+---+	-----++	+++++---	0402,6701 = 0602,6701
-----+	+++++---	+++++---	-----	-----++	+++++---	4501,7701 = 4501,9401
-----+	+++++---	+++++---	---+---+	-----++	+++++---	0402,5401 = 0602,5401
-----+	+++++---	+++++---	---+---+	-----++	+++++---	0402,5801 = 0602,5801
-----+	+++++---	+++++---	---+---+	-----++	+++++---	0402,3001 = 0602,3001
-----+	+++++---	-----++	+-----+	-----++	+++++---	6001,6301 = 6301,8301
-----+	+++++---	-----++	+-----+	-----++	+++++---	0402,6301 = 0602,6301
-----+	+++++---	-----+	-----	-----++	+++++---	0402,3401 = 0602,3401 = 3401,7701
-----+	+++++---	-----+	-----	-----++	+++++---	6001,6201 = 6201,8301
-----+	+++++---	-----+	-----	-----++	+++++---	0402,6201 = 0602,6201
-----+	+++++---	-----	---+-----	-----++	+++++---	1002,7701 = 1002,9401
-----+	+++++---	-----	---+-----	-----++	+++++---	0402,1002 = 0602,1002 = 1002,8001 = 5901,8001
-----+	+++++---	-----	---+-----	-----++	+++++---	7701,8001 = 8001,9401
-----+	+++++---	-----	---+-----	-----++	+++++---	6001,8001 = 8001,8301
-----+	+++++---	-----	---+-----	-----++	+++++---	0402,8001 = 0602,8001 = 8001,8001
-----+	+++++---	-----	-----	-----++	+++++---	2301,6001 = 2301,8301
-----+	+++++---	-----	-----	-----++	+++++---	5901,7701 = 5901,9401
-----+	+++++---	-----	-----	-----++	+++++---	0402,5901 = 0602,5901
-----+	+++++---	-----	-----	-----++	+++++---	7701,8201 = 8201,9401
-----+	+++++---	-----	-----	-----++	+++++---	6001,7701 = 6001,9401 = 7701,8301 = 8301,9401
-----+	+++++---	-----	-----	-----++	+++++---	0402,7701 = 0402,9401 = 0602,7701 = 0602,9401 = 7701,7701 = 7701,9401
-----+	+++++---	-----	-----	-----++	+++++---	6001,8201 = 8201,8301



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-----+ +-----+ ----- ----- +-----+ -+-----+ 0402,8201 = 0602,8201 =
8201,8201
-----+ +-----+ ----- ----- +-----+ -+-----+ 0402,6001 = 0402,8301 =
0602,6001 = 0602,8301 =
6001,6001 = 6001,8301
-----+ +-----+ -----+ ----- +-----+ +-----+ 2301,3401 = 3401,9401
-----+ +-----+ +-----+ +-----+ -----+ -+-----+ 0501,6401N = 0601,3801 =
3801,6401N
-----+ +-----+ -----+ +-----+ -----+ -+-----+ 0102,6301 = 0501,1502
-----+ +-----+ +-----+ +-----+ -----+ -+-----+ 5501,9701 = 5801,9701
-----+ +-----+ +-----+ +-----+ -----+ -+-----+ 3801,5501 = 3801,5801
-----+ +-----+ -----+ +-----+ -----+ -+-----+ 0501,9701 = 9701,9701
-----+ +-----+ -----+ +-----+ -----+ -+-----+ 0501,3801 = 3801,3801
-----+ +-----+ +-----+ +-----+ -----+ -+-----+ 1502,4501 = 1902,6701
-----+ +-----+ +-----+ +-----+ -----+ -+-----+ 1502,3001 = 1502,5501
-----+ +-----+ +-----+ +-----+ -----+ -+-----+ 3001,6301 = 5501,6301 =
5801,6301
-----+ +-----+ +-----+ +-----+ -----+ -+-----+ 3001,6201 = 5501,6201
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1001,8101 = 5401,8101
-----+ +-----+ +-----+ +-----+ -----+ -+-----+ 1001,4101 = 4101,5401
-----+ +-----+ +-----+ +-----+ -----+ -+-----+ 3001,9501 = 5501,9501
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1401,8601 = 2202,8601
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1401,1602 = 1602,2202
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1102,1401 = 1102,2202
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 350101,8601 = 350102,8601
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1002,8601 = 5901,8601
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 0601,8601 = 6901,8601
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 0901,1102 = 0901,1602
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1001,8601 = 5401,8601
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 3001,8601 = 8601,9301
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1102,1701 = 1602,1701
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1001,1102 = 1001,1602 =
1102,5401 = 1602,5401
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1102,5801 = 1602,5801
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1102,5501 = 1602,5501
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1102,3001 = 1602,3001 =
1602,9301
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1102,8601 = 1602,8601 =
8601,8601
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1102,1602 = 1602,1602
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1002,1002 = 1002,5901
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 0901,9101 = 1701,2202
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1401,9301 = 2202,9301
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 0901,9801 = 1701,350101
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1001,6401N = 5401,6401N
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 0601,1001 = 0601,5401
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 0601,6401N = 6401N,6401N
= 6401N,6901
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 0901,3001 = 0901,9301
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1001,1701 = 1701,5401
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1701,3001 = 1701,9301
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1001,3001 = 1001,9301 =
5401,9301
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1401,2101 = 2101,2202
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 2101,5501 = 2101,5801
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1401,5801 = 2202,5801
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 5501,7001 = 5801,7001
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1401,9801 = 2202,6901 =
2202,9101 = 2202,9801 =
350101,9101 = 350102,9101
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1401,6901 = 1401,9101
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 1401,3001 = 2202,3001
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 6901,9101 = 9101,9101
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 350101,9801 = 350102,9801
-----+ +-----+ +-----+ +-----+ +-----+ -+-----+ 3001,6701 = 5501,6701



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```
----- +----- +-----+ ---+--+ ---+++++ +-+----- 3001,3401 = 3401,5501
----- +----- +-----+ ---+--+ ---+++++ -----+ 3001,5801 = 5501,5801 =
                                         5801,5801
----- ---+----- +++++--- ---+++++ -+-----+ -----+ 1001,1401 = 1001,2202
----- ---+----- +-+----- -+-----+ -----+ -----+ 0901,1001 = 0901,5401
----- ---+----- +-+----- -+-----+ -----+ -----+ 1001,1001 = 1001,5401
----- -----+ +++++--- ---+++++ -+-----+ -----+ 1401,5401 = 2202,5401
----- -----+ +++++--- ---+----- -+-----+ -----+ 2202,6701 = 350101,6701
----- -----+ +++++--- ---+----- -+-----+ -----+ 2202,4501 = 350101,4501
----- -----+ +++++--- ---+----- -+-----+ -----+ 1401,2202 = 1401,350101 =
                                         2202,2202 = 2202,350101 =
                                         2202,350102
----- -----+ +-+----- ---+----- -+-----+ -----+ 350101,350101 =
                                         350101,350102
```

0101 = 010101 to 010103
0102 = 020102, 020104, 020105 and 020107
0301 = 030101 and 030102
0401 = 040101 and 040102
0501 = 050101 and 050102
1101 = 110101 and 110102
2001 = 200101 and 200102
4101 = 410101 and 410102

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Lot-specific Information

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
1	245 bp	515 bp	*010101-010103, 030101, 030102, 0502, 0902, 1301, 1302, 1402, 1702, 2102, 2501, 2502, 260101, 260102, 2901, 3701, 4401, 5001, 5201, 5601, 6101N, 7801, 7901, 8801, 9001, 9201
2⁴	220 bp	515 bp	*010101-010103, 030101, 030102, 0502, 1402, 1702, 1801, 200101, 200102, 2102, 2501, 2502, 260101, 260102, 2701, 3601, 5001, 5201, 5601, 6101N, 7801, 7901, 8501, 8701, 8901, 9001, 9201
3^{3,4,5}	100 bp	430 bp	*010101-010103, 0302, 040101, 040102, 0902, 110101, 110102, 1301, 1302, 1501, 2002, 2102, 2302N, 2402, 260101, 260102, 2701, 3101, 3301, 3901, 4001, 5601, 6501, 6601, 7201, 7401, 8501, 8901, 9001, 9601, 9901
4^{3,4}	140 bp	430 bp	*010101-010103, 0302, 040101, 040102, 2102, 2302N, 2401, 2402, 2502, 260101, 260102, 2701, 2801, 3101, 3901, 4001, 4901, 5101, 5301, 5601, 6501, 6601, 7201, 7601, 8501, 8901, 9001, 9201, 9601, 9901
5	235 bp	515 bp	*010101-010103, 0801, 0802, 1901, 2102, 2502, 5001, 5701, 6501, 6801, 7301, 7501, 8401, 9001
6	165 bp	430 bp	*010101-010103, 0902, 1301, 2102, 2502, 260101, 260102, 6501
7	160 bp	430 bp	*010101-010103, 0902, 1301, 1302, 2102, 2502, 260101, 260102, 5601, 6501, 7601, 9001, 9201
8	210 bp	515 bp	*0102, 020102-0203, 040101-0403, 050101, 050102, 0602, 0801, 0802, 1502, 1601, 1802, 1901, 1902, 2201, 2301, 2302N, 2401, 2402, 2602, 3201, 3301, 3801, 3901, 4001, 4601, 4701, 4801, 4901, 5101, 5301, 6001, 6201, 6301, 6501, 6801, 7101, 7501, 7701, 8001, 8101, 8201, 8401, 9401, 9601, 9701, 9901
9⁴	165 bp	430 bp	*0102, 020102-020105, 020106 ^w , 020107-0203, 0402, 0403, 050101, 050102, 0601, 0602, 0802,

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Lot-specific Information

			1002, 1102, 1502, 1601, 1602, 1701, 1801, 1802, 1901, 1902, 200101, 200102, 2101, 2201, 2301, 2602, 3001, 3201, 3401, 3601, 3801, 410101, 410102, 4601, 4701, 4801, 5501, 5801, 5901, 6001, 6201, 6301, 6401N, 6901, 7101, 7701, 8001, 8201, 8301, 8601, 8701, 9101, 9301, 9401, 9501, 9701, 9801
10	220 bp	515 bp	*020102-0203, 0403, 0801, 0802, 1601, 1802, 1901, 2201, 2602, 3201, 3301, 410101, 410102, 4601, 4701, 4801, 7101, 8101, 9501
11	190 bp	515 bp	*020102-020107, 040101-0402, 0602, 1002, 1102, 1602, 1802, 2301, 2302N, 2401, 2402, 2602, 3201, 3301, 410101, 410102, 4601, 4701, 5101, 5901, 6001, 6601, 7101, 7201, 7301, 7501, 7701, 8001, 8101, 8201, 8301, 8601, 9401, 9901
12³	80 bp	515 bp	*020102, 020103 ^w , 020104-020107, 0601, 0801, 0901, 1001, 1102, 1601, 1602, 1701, 1802, 2602, 2901, 3201, 3701, 410101, 410102, 4401, 4601, 4801, 6401N, 8101, 8601, 8801, 9301
13	180 bp	430 bp	*0102, 0202, 0203, 050101, 050102, 0802, 1901, 2201, 2401, 3801, 4701, 9701
14³	105 bp	430 bp	*0102, 0202, 0203, 050101, 050102, 1702, 2101, 2201, 3601, 3801, 9701
15	200 bp	430 bp	*0102, 0202, 0203, 1502, 1902, 4801, 9501, 9901
16^{3,4}	80 bp	430 bp	*030101, 030102, 0402, 0502, 0602, 1002, 1401, 1402, 1801, 1902, 200101, 200102, 2202, 2501, 2502, 2801, 350101, 350102, 4501, 4901, 5001, 5101, 5301, 5701, 5901, 6001, 6101N, 6801, 7001, 7301, 7501, 7601, 7701, 7801, 7901, 8001, 8201, 8301, 9101, 9201, 9801
17	260 bp	515 bp	*030101, 030102, 0502, 0601, 0901, 0902, 1001, 110101, 110102, 1301, 1302, 1401, 1402, 1701, 1702, 200101, 200102, 2101, 2202, 2501, 260101, 260102, 2701, 2901, 3001, 350101, 350102, 3601, 3701, 4401, 4501, 5201, 5401, 5501, 5601, 5801, 6101N, 6401N, 6701, 6901, 7001, 7601, 7801, 7901, 8501, 8701, 8801, 9101, 9201, 9301, 9801
18	180 bp	430 bp	*030101, 030102, 0502, 0601, 0901, 1401, 1402, 1701, 200101, 200102, 2202, 2901, 350101, 350102, 4401, 6101N, 6401N, 6901, 7001, 7601, 7801, 8601, 8801, 9101, 9201, 9801
19	200 bp	430 bp	*030101, 030102, 0502, 0601, 110101, 110102, 1401, 1402, 1702, 200101, 200102, 2202, 2501,

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			2901, 4401, 4501, 5201, 5601, 6101N, 6401N, 6701, 6901, 7001, 7401, 7601, 7801, 8701, 9101, 9201
20	235 bp	515 bp	*030101, 030102, 0502, 0901, 0902, 1001, 1301, 1302, 1401, 1402, 1702, 2202, 2501, 260101, 260102, 2901, 350101, 350102, 3701, 4401, 4501, 5201, 5401, 5601, 6101N, 6701, 7001, 7601, 7801, 7901, 8801, 9201
21^{3,4}	100 bp	430 bp	*030101, 030102, 0502, 0901, 1401, 1402, 2202, 2901, 350101, 350102, 4401, 5001, 5701, 6101N, 7001, 7601, 7801, 8801, 9201
22⁴	185 bp	430 bp	*040101, 040102, 2002, 2302N, 2401, 2402, 3301, 3901, 4901, 5101, 6601, 7201, 8101, 9601, 9901
23³	145 bp	430 bp	*0102, 050101, 050102, 1502, 1702, 1902, 3401, 3601, 3801, 6201, 6301, 9701
24⁷	195 bp, 265 bp	515 bp	*0203, 0302, 0403, 050101, 050102, 0801, 0802, 1601, 1901, 2201, 3101, 3801, 5701, 6301, 6501, 6801, 8401, 9701
25⁸	190 bp, 265 bp	515 bp	*050101, 050102, 1702, 2101, 2201, 3601, 3801, 4401, 5801, 6301, 7001, 9701
26^{3,5}	75 bp	515 bp	*0601, 0901, 1701, 2901, 4401, 4601, 6401N, 8601, 8801
27³	95 bp	430 bp	*0601, 1002, 1701, 200101, 200102, 4601, 6401N, 6901, 8001, 8601, 9101, 9801
28⁹	200 bp, 260 bp	430 bp	*0901, 0902, 1001, 1102, 1301, 1302, 1602, 1701, 2002, 2101, 2202, 260101, 260102, 2701, 3001, 350101, 350102, 3601, 3701, 5401, 5501, 5801, 6601, 7901, 8501, 8601, 8801, 9301, 9801
29	220 bp	515 bp	*0901, 1001, 1602, 1701, 3001, 5401, 5501, 5801, 8601
30	185 bp	430 bp	*0901, 1401, 1701, 2202, 350101, 7601, 8601, 9101, 9801
31^{3,6}	120 bp	430 bp	*010101-010103, 0302, 0403, 050101, 050102, 0801, 0802, 0902, 1001, 110101, 110102, 1301, 1302, 1601, 1702, 1901, 2101, 2102, 2201, 2501, 2502, 260101, 260102, 2701, 3001, 3101, 3601, 3701, 3801, 4501, 5201, 5401, 5501, 5601, 5801, 6301, 6501, 6701, 6801, 7901, 8401, 8501, 8701, 8901, 9001, 9301, 9701
32^{3,10}	75 bp, 195 bp	430 bp	*110101, 110102, 7801
33^{3,11}	140 bp, 205 bp	430 bp	*0902, 1301, 1302, 2002, 2602, 3301, 8101

Lot No.: **47G**

Lot-specific Information

34	210 bp	515 bp	*1401, 2202, 4501, 6701, 7601, 9101
35	195 bp	430 bp	*1501, 7401
36	260 bp	515 bp	*1501, 1801, 2801, 3401, 4001, 5301, 6201
37^{6,12}	185 bp, 255 bp	515 bp	*0102 [?] , 0203 [?] , 0302 [?] , 0402, 0403 [?] , 0801 [?] , 1001 [?] , 1002 [?] , 110101 [?] -1102 [?] , 1302 [?] , 1402 [?] , 1501, 1502 [?] , 1602 [?] , 1702 [?] , 1802 [?] , 1902 [?] , 2002 [?] , 2101 [?] , 2102 [?] , 2201 [?] , 2202 [?] , 2302N [?] , 2401 [?] , 2501 [?] , 2502 [?] , 2701 [?] , 2801, 2901 [?] , 3001 [?] , 3101 [?] , 3201 [?] , 3301 [?] , 3401 [?] , 350101 [?] , 3601 [?] , 3701 [?] , 3801 [?] , 3901 [?] , 4001, 410101 [?] , 410102 [?] , 4401 [?] , 4601 [?] , 4701 [?] , 4801 [?] , 4901 [?] , 5001 [?] , 5101 [?] , 5201 [?] , 5301, 5401 [?] , 5601 [?] , 5701 [?] , 5801 [?] , 5901 [?] , 6001 [?] , 6101N [?] , 6201 [?] , 6301 [?] , 6401N [?] , 6501 [?] , 6601 [?] , 6701 [?] , 6801 [?] , 6901 [?] , 7001 [?] , 7101 [?] , 7201 [?] , 7301 [?] , 7401, 7501 [?] , 7601 [?] , 7701 [?] , 7801 [?] , 7901 [?] , 8001 [?] , 8101 [?] , 8201 [?] , 8301 [?] , 8401 [?] , 8601 [?] , 8701 [?] , 8901 [?] , 9001 [?] , 9101 [?] , 9201 [?] , 9301 [?] , 9401 [?] , 9501 [?] , 9601 [?] , 9701 [?] , 9801 [?] , 9901 [?]
38³	100 bp	515 bp	*0403, 1502, 2301, 2402, 3401, 5201, 5501, 5801, 6201, 6301, 6701, 7101, 8701, 9501
39	210 bp	515 bp	*0302, 1002, 2801, 3101, 3401, 5701, 5901, 7201, 7301, 9501
40^{3,4,13}	95 bp, 180 bp	430 bp	*0102 [?] , 0203 [?] , 0302 [?] , 0403 [?] , 0601 [?] , 0801 [?] , 0902, 1001 [?] , 1002 [?] , 110101 [?] -1102 [?] , 1302 [?] , 1402 [?] , 1502 [?] , 1601 [?] , 1602 [?] , 1701 [?] , 1702 [?] , 1801 [?] , 1802 [?] , 1902 [?] , 200101 [?] -2002 [?] , 2101 [?] , 2102 [?] , 2201 [?] , 2202 [?] , 2301 [?] , 2302N [?] , 2401 [?] , 2402 [?] , 2501 [?] , 2502 [?] , 260101 [?] -2602 [?] , 2701 [?] , 2801 [?] , 2901 [?] , 3001, 3101 [?] , 3201 [?] , 3301 [?] , 3401 [?] , 350101 [?] , 350102 [?] , 3601 [?] , 3701 [?] , 3801 [?] , 3901 [?] , 4001 [?] , 410101 [?] , 410102 [?] , 4401 [?] , 4501 [?] , 4601 [?] , 4701 [?] , 4801 [?] , 4901 [?] , 5001 [?] , 5101 [?] , 5201 [?] , 5301 [?] , 5401, 5501 [?] , 5601 [?] , 5701 [?] , 5801 [?] , 5901 [?] , 6001 [?] , 6101N [?] , 6201 [?] , 6301 [?] , 6401N [?] , 6501 [?] , 6601 [?] , 6701 [?] , 6801 [?] , 6901 [?] , 7001 [?] , 7101 [?] , 7201 [?] , 7301 [?] , 7401 [?] , 7501 [?] , 7601 [?] , 7701 [?] , 7801 [?] , 7901 [?] , 8001 [?] , 8101 [?] , 8201 [?] , 8301 [?] , 8401 [?] , 8501 [?] , 8601 [?] , 8701 [?] , 8801 [?] , 8901 [?] , 9001 [?] , 9101 [?] , 9201 [?] , 9301 [?] , 9401 [?] , 9501 [?] , 9601 [?] , 9701 [?] , 9801 [?] , 9901 [?]
41^{3,14}	75 bp, 230 bp	515 bp	*3101, 3401, 7701, 9401
42^{3,6,15}	140 bp, 185 bp, 285 bp	430 bp	*3201, 8201, 9701

Lot No.: **47G**

Lot-specific Information

43 ^{3,16}	65 bp 190 bp	430 bp	*0102 [?] , 0203 [?] , 0302 [?] , 0403 [?] , 050101-0502, 0601 [?] , 0801 [?] , 1001 [?] , 1002 [?] , 110101 [?] -1102 [?] , 1302 [?] , 1402 [?] , 1502 [?] , 1601 [?] , 1602 [?] , 1701 [?] , 1702 [?] , 1801 [?] , 1802 [?] , 1901, 1902 [?] , 200101 [?] - 2002 [?] , 2101 [?] , 2102 [?] , 2201 [?] , 2202 [?] , 2301 [?] , 2302N [?] , 2401 [?] , 2402 [?] , 2501 [?] , 2502 [?] , 260101 [?] - 2602 [?] , 2701 [?] , 2801 [?] , 2901 [?] , 3001 [?] , 3101 [?] , 3201 [?] , 3301 [?] , 3401, 350101 [?] , 350102 [?] , 3601 [?] , 3701 [?] , 3801 [?] , 3901 [?] , 4001 [?] , 410101 [?] , 410102 [?] , 4401 [?] , 4501 [?] , 4601 [?] , 4701 [?] , 4801 [?] , 4901 [?] , 5001 [?] , 5101 [?] , 5201 [?] , 5301 [?] , 5401 [?] , 5501 [?] , 5601 [?] , 5701 [?] , 5801 [?] , 5901 [?] , 6001 [?] , 6101N [?] , 6201, 6301 [?] , 6401N [?] , 6501 [?] , 6601 [?] , 6701 [?] , 6801 [?] , 6901 [?] , 7001 [?] , 7101 [?] , 7201 [?] , 7301 [?] , 7401 [?] , 7501 [?] , 7601 [?] , 7701 [?] , 7801 [?] , 7901 [?] , 8001 [?] , 8101 [?] , 8201 [?] , 8301 [?] , 8401 [?] , 8501 [?] , 8601 [?] , 8701 [?] , 8801 [?] , 8901 [?] , 9001 [?] , 9101 [?] , 9201 [?] , 9301 [?] , 9401 [?] , 9501 [?] , 9601 [?] , 9701 [?] , 9801 [?] , 9901 [?]
44 ^{3,6,17}	110 bp, 185 bp, 245 bp, 270 bp	430 bp	*1402, 2102, 2302N, 3801, 6401N
45 ^{3,18}	120 bp, 190 bp, 245 bp	430 bp	*1002, 1802, 2002, 3901, 4601, 4901, 8001, 8601, 9601
46	205 bp	515 bp	*410101, 410102, 6001, 8301, 9601
47 ¹⁹	165 bp, 255 bp	515 bp	*0102 [?] , 020102-0202, 0203 [?] , 0302 [?] , 040101, 040102, 0403 [?] , 0602, 0801 [?] , 0802, 1001 [?] , 1002 [?] , 110101 [?] -1102 [?] , 1302 [?] , 1402 [?] , 1502 [?] , 1602 [?] , 1701, 1702, 1802 [?] , 1902 [?] , 2002 [?] , 2101 [?] , 2102 [?] , 2201 [?] , 2202 [?] , 2301, 2302N [?] , 2401 [?] , 2402, 2501 [?] , 2502 [?] , 260101 [?] , 2602, 2701 [?] , 2801, 2901 [?] , 3001 [?] , 3101 [?] , 3201 [?] , 3301 [?] , 3401 [?] , 350101 [?] , 3601 [?] , 3701 [?] , 3801 [?] , 3901 [?] , 4001 [?] , 410101 [?] , 410102 [?] , 4401, 4601 [?] , 4701 [?] , 4801 [?] , 4901 [?] , 5001 [?] , 5101 [?] , 5201 [?] , 5301 [?] , 5401 [?] , 5501, 5601 [?] , 5701 [?] , 5801 [?] , 5901 [?] , 6001 [?] , 6101N [?] , 6201 [?] , 6301 [?] , 6401N [?] , 6501 [?] , 6601 [?] , 6701 [?] , 6801 [?] , 6901 [?] , 7001 [?] , 7101 [?] , 7201 [?] , 7301 [?] , 7401 [?] , 7501 [?] , 7601 [?] , 7701 [?] , 7801 [?] , 7901 [?] , 8001 [?] , 8101 [?] , 8201 [?] , 8301 [?] , 8401 [?] , 8601 [?] , 8701 [?] , 8901 [?] , 9001 [?] , 9101 [?] , 9201 [?] , 9301 [?] , 9401 [?] , 9501 [?] , 9601 [?] , 9701 [?] , 9801 [?] , 9901 [?]
48 ²⁰	210 bp, 280 bp	515 bp	*6101N, 8501

Lot No.: **47G**

Lot-specific Information

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, 34, 36 to 39, 41 and 46 to 48 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

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

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, 21, 22 and 40 may yield less specific PCR products than the other DPB1 primer mixes.

⁵Primer mixes 3 and 26 may give rise to primer dimer formation, most pronounced in primer mix 3.

⁶Primer mixes 31, 37, 42 and 44 may give rise to non-specific amplifications.

⁷Primer mix 24: Specific PCR fragment of 195 bp in the DPB1*0203 allele. Specific PCR fragment of 265 bp in the DPB1*0302, 0403, 050101, 050102, 0801, 0802, 1601, 1901, 2201, 3101, 3801, 5701, 6301, 6501, 6801, 8401 and 9701 alleles.

⁸Primer mix 25: Specific PCR fragment of 190 bp in the DPB1*050101, 050102, 1702, 2101, 2201, 3601, 3801, 4401, 5801, 6301 and 9701 alleles. Specific PCR fragment of 265 bp in the DPB1*7001 allele.

⁹Primer mix 28: Specific PCR fragment of 200 bp in the DPB1*0901, 0902, 1001, 1102, 1301, 1302, 1602, 1701, 2002, 2101, 260101, 260102, 2701, 3001, 350101, 350102, 3601, 3701, 5401, 5501, 5801, 6601, 7901, 8501, 8601, 8801, 9301 and 9801 alleles. Specific PCR fragment of 260 bp in the DPB1*2202 allele.

¹⁰Primer mix 32: Specific PCR fragment of 75 bp in the DPB1*7801 allele. Specific PCR fragment of 195 bp in the DBB1*110101-110102 alleles.

¹¹Primer mix 33: Specific PCR fragment of 140 bp in the DPB1*0902, 1301, 1302, 2002, 3301, 8101 allele. Specific PCR fragment of 205 bp in the DBB1*2602 allele.

¹²Primer mix 37: Specific PCR fragment of 185 bp in the DPB1*1501, 2801, 4001, 5301 and 7401 alleles. Specific PCR fragment of 255 bp in the DPB1*0402 allele. The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 37 matching the DPB1*0402 sequence motif in the 3rd exon may amplify other DPB1 alleles.

¹³Primer mix 40: Specific PCR fragment of 95 bp in the DPB1*0902 allele. Specific PCR fragment of 180 bp in the DPB1*3001 and 5401 alleles. The 1st exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 40 matching the DPB1*0902 sequence motif in the 1st exon may amplify other DPB1 alleles.

¹⁴Primer mix 41: Specific PCR fragment of 75 bp in the DPB1*7701 allele. Specific PCR fragment of 230 bp in the DPB1*3101, 3401 and 9401 alleles.

Lot No.: **47G**

Lot-specific Information

¹⁵Primer mix 42: Specific PCR fragment of 140 bp in the DPB1*9701 allele. Specific PCR fragment of 185 bp in the DPB1*3201 allele. Specific PCR fragment of 285 bp in the DPB1*8201 allele.

¹⁶Primer mix 43: Specific PCR fragment of 65 bp in the DPB1*050101, 050102, 0502 and 1901 alleles. Specific PCR fragment of 190 bp in the DPB1*3401 and 6201 alleles. The 4th exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 43 matching the DPB1*050101, 050102, 0502 and 1901 sequence motif in the 4th exon may amplify other DPB1 alleles.

¹⁷Primer mix 44: Specific PCR fragment of 185 bp in the DPB1*1402allele. Specific PCR fragment of 245 in the DPB1*3801 allele. Specific PCR fragment of 270 bp in the DPB1*6401N allele. Specific PCR fragment of 110 and 185 bp in the DPB1* 2102 allele. Specific PCR fragment of 185 and 270 bp in the DPB1* 2302 allele.

¹⁸Primer mix 45: Specific PCR fragment of 120 bp in the DPB1*1002, 4601, 8001 and 8601 alleles. Specific PCR fragment of 190 bp in the DPB1*2002, 3901, 4901 and 9601 alleles. Specific PCR fragment of 245 bp in the DPB1*1802 allele.

¹⁹Primer mix 47: Specific PCR fragment of 165 bp in the DPB1*1702 and 4401 alleles. Specific PCR fragment of 255 bp in the DPB1*020102, 0202, 040101, 0602, 0802, 1701, 2301, 2402, 2602 and 2801 alleles. Specific PCR fragment of 165 and 255 bp in the DPB1*1701 allele.

The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 47 matching the DPB1*020102, 0202, 040101, 0602, 0802, 1701, 2301, 2402, 2602 and 2801 sequence motif in the 3rd exon may amplify other DPB1 alleles.

²⁰Primer mix 48: Specific PCR fragment of 210 bp in the DPB1*6101N allele. Specific PCR fragment of 280 bp in the DPB1*8501 allele.

'w', might be weakly amplified.

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

Lot No.: 47G

Lot-specific Information

INTERPRETATION TABLE																								
DPB1 SSP typing																								
Amplification patterns of the DPB1*0101 to DPB1*9901 alleles																								
	Well ⁶																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
Length of int. pos. control 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'-AgC 3' 35(190)	5'-gAg 3' 28(169)	5'-TgA 3' 56(254)	5'-gTT 3' 11(119)	5'-gTT 3' 11(119)	5'-gTT 3' 11(119)	5'-gTT 3' 11(119)	5'-gAC 3' 57(258)	5'-CgC 3' 36(194)	5'-AgC 3' 35(190)	5'-TTT 3' 9(113)
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'-CgC 3' 84(338)	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'-gTg 3' 60(265)
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



Lot No.: 47G

Lot-specific Information

INTERPRETATION TABLE																																																		
DPB1 SSP typing																																																		
Amplification patterns of the DPB1*0101 to DPB1*9901 alleles																																																		
Well ⁶																																																		
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48																											
190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	110	120	205	165	210	Length of spec. PCR product																										
265			260				195	205				255			180	230	185	190	185	190	245	245	280	Length of int. pos. control ¹																										
515	515	430	430	515	430	430	430	430	515	430	515	515	515	515	430	515	430	430	430	430	515	515	515	5'-primer(s) ²																										
5'-AgC	5'-Tgg	5'-gAC	5'-gAC	5'-TgC	5'-TgC	5'-gAg	5'-ggC	5'-CgC	5'-TgC	5'-ggC	5'-ggg	5'-CgC	5'-CgT	5'-TgC	5'-TgC	5'-TTT	5'-CAT	5'-TTT	5'-AgC	5'-TAA	5'-ACA	5'-TTT	5'-AgC	5'-gTT																										
35(190)			11(119)				33(184)	36(194)		33(184)	11(119)	36(194)	36(194)	9(112)	9(112)	9(112)	9(112)	196(67)	10(115)	35(191)		107(40)	11(119)																											
5'-CgT	5'-CTC	5'-TAT	5'-gAT	5'-CTC	5'-TAG	5'-CgT	5'-CgT	5'-CTC	5'-gAg	5'-CgA	5'-CgA	5'-CAT	5'-CgA	5'-CgA	5'-gAg	5'-CAC	5'-gCA	5'-CCA	5'-CAT	5'-CgA	5'-CgC	5'-gTg	5'-CgA	5'-ggT																										
84(338)	69(292)	76(313)	65(280)	69(292)	57(258)	84(338)	84(338)	69(292)	65(280)	84(338)	84(338)	84(338)	178(61)	55(251)	66(280)	4(76)	12(122)	43(214)	84(338)	55(251)	84(338)	65(280)	64(277)	76(315)	67(286)																									
5'-CAA	5'-ggT											5'-CAA	5'-ACA	5'-CAT	5'-CgT	5'-gAA	5'-gAA	5'-CgA	5'-CgT	5'-gAA	5'-gAA	5'-CgA	5'-ggT	5'-gAA	5'-ggT																									
72(301)	91(359)											72(301)	91(359)			65(281)	65(280)	205(70)	84(338)		65(280)	178(61)	91(359)	65(281)																										
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.																										



Lot No.: **47G**

Lot-specific Information

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
																								265
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DPB1 allele ⁴																								
*010101-010103	1	2	3	4	5	6	7																	
*0102								8	9				13	14	15								23	
*020102, 020104, 020105, 020107								8	9	10	11	12												
*020103								8	9	10	11	w												
*020106								8	w	10	11	12												
*0202								8	9	10			13	14	15									
*0203								8	9	10			13	14	15									24
*030101, 030102	1	2														16	17	18	19	20	21			
*0302			3	4																				24
*040101, 040102			3	4				8			11											22		
*0402								8	9		11					16								
*0403								8	9	10														24
*050101, 050102								8	9				13	14									23	24
*0502	1	2														16	17	18	19	20	21			
*0601									9			12					17	18	19					
*0602								8	9		11					16								
*0801					5			8		10		12												24
*0802					5			8	9	10			13											24
*0901												12					17	18		20	21			
*0902	1		3			6	7										17			20				
*1001												12					17			20				
*1002									9		11					16								
*110101, 110102			3														17		19					
*1102									9		11	12												
*1301	1		3			6	7										17			20				
*1302	1		3				7										17			20				
*1401																16	17	18	19	20	21			
*1402	1	2														16	17	18	19	20	21			
*1501			3																					
*1502								8	9						15								23	
*1601								8	9	10		12												24
*1602									9		11	12												
*1701									9			12					17	18						
*1702	1	2											14				17		19	20			23	
*1801		2							9							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.: **47G**

Lot-specific Information

190 265	75	95	200 260	220	185	120	75 195	140 205	210	195	260	185 255	100	210 180	95	75 230	140 185	65 190	110 185	120 190	205 255	165 280	210	Length of spec. PCR product
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							?	?			?					?		*010101-010103
																						47		*0102
																						47		*020102, 020104, 020105, 020107
																						47		*020103
																						47		*020106
																						47		*0202
														?	?			?				?		*0203
																								*030101, 030102
						31							?	39	?			?				?		*0302
																						47		*040101, 040102
												37												*0402
						31							?	38	?			?				?		*0403
25						31													43					*050101, 050102
																			43					*0502
	26	27																	?					*0601
																						47		*0602
						31							?		?			?				?		*0801
						31																47		*0802
	26		28	29	30																			*0901
			28			31		33							40									*0902
			28	29		31						?		?				?				?		*1001
		27										?	39	?				?		45		?		*1002
						31	32					?		?				?				?		*110101, 110102
			28									?		?				?				?		*1102
			28			31		33																*1301
			28			31		33				?		?				?				?		*1302
				30					34															*1401
												?		?				?	44			?		*1402
									35	36		37												*1501
												?	38	?				?				?		*1502
						31												?				?		*1601
			28	29								?		?				?				?		*1602
	26	27	28	29	30									?				?				47		*1701
25						31						?		?				?				47		*1702
									36					?				?						*1801
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

Lot No.: **47G**

Lot-specific Information

Length of spec. PCR product	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
																							265	
*1802								8	9	10	11	12												
*1901					5			8	9	10			13										24	
*1902								8	9					15	16								23	
*200101, 200102		2							9						16		17	18	19					
*2002			3																			22		
*2101									9				14				17							
*2102	1	2	3	4	5	6	7																	
*2201								8	9	10			13	14									24	
*2202															16		17	18	19	20	21			
*2301								8	9		11													
*2302N			3	4				8			11											22		
*2401				4				8			11		13									22		
*2402			3	4				8			11											22		
*2501	1	2													16		17		19	20				
*2502	1	2		4	5	6	7								16									
*260101	1	2	3	4		6	7										17			20				
*260102	1	2	3	4		6	7										17			20				
*2602								8	9	10	11	12												
*2701		2	3	4													17							
*2801				4											16									
*2901	1										12						17	18	19	20	21			
*3001									9								17							
*3101			3	4																			24	
*3201								8	9	10	11	12												
*3301			3					8		10	11											22		
*3401									9														23	
*350101															16		17	18		20	21			
*350102															16		17	18		20	21			
*3601		2							9				14				17						23	
*3701	1										12						17			20				
*3801								8	9				13	14									23 24	
*3901			3	4				8														22		
*4001			3	4				8																
*410101, 410102									9	10	11	12												
*4401	1										12						17	18	19	20	21			
*4501															16		17		19	20				
*4601								8	9	10	11	12												
*4701								8	9	10	11		13											
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.: **47G**

Lot-specific Information

190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	110	120	205	165	210	Length of spec. PCR product	
265			260				195	205				255			180		230	185	190	185	190		255	280	
																		285		245	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.	
												?			?			?		45		?		*1802	
						31												43						*1901	
												?			?			?					?	*1902	
		27													?			?						*200101, 200102	
			28					33				?			?			?		45		?		*2002	
25			28			31						?			?			?				?		*2101	
						31						?			?			?	44			?		*2102	
25						31						?			?			?				?		*2201	
			28		30			34				?			?			?				?		*2202	
												38			?			?				47		*2301	
												?			?			?	44			?		*2302N	
												?			?			?				?		*2401	
												38			?			?				47		*2402	
						31						?			?			?				?		*2501	
						31						?			?			?				?		*2502	
			28			31									?			?				?		*260101	
			28			31									?			?						*260102	
								33							?			?				47		*2602	
			28			31						?			?			?				?		*2701	
											36	37		39	?			?				47		*2801	
26												?			?			?				?		*2901	
			28	29		31						?			40			?				?		*3001	
						31						?		39	?	41		?				?		*3101	
												?			?		42	?				?		*3201	
								33				?			?			?				?		*3301	
											36	?	38	39	?	41		43				?		*3401	
			28		30							?			?			?				?		*350101	
			28												?			?						*350102	
25			28			31						?			?			?				?		*3601	
			28			31						?			?			?				?		*3701	
25						31						?			?			?	44			?		*3801	
												?			?			?		45		?		*3901	
											36	37			?			?				?		*4001	
												?			?			?			46	?		*410101, 410102	
25	26											?			?			?				47		*4401	
						31		34							?			?						*4501	
	26	27										?			?			?			45	?		*4601	
												?			?			?			?			*4701	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

Lot No.: **47G**

Lot-specific Information

Length of spec. PCR product	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
																							265	
*4801							8	9	10	12				15										
*4901				4			8								16						22			
*5001	1	2			5										16					21				
*5101				4			8		11						16						22			
*5201	1	2															17		19	20				
*5301				4			8								16									
*5401																	17			20				
*5501								9									17							
*5601	1	2	3	4			7										17		19	20				
*5701					5										16						21		24	
*5801								9									17							
*5901								9	11						16									
*6001							8	9	11						16									
*6101N	1	2													16	17	18	19	20	21				
*6201							8	9														23		
*6301							8	9														23	24	
*6401N								9		12							17	18	19					
*6501			3	4	5	6	7	8															24	
*6601			3	4					11												22			
*6701																	17		19	20				
*6801					5		8								16								24	
*6901								9									17	18	19					
*7001															16	17	18	19	20	21				
*7101							8	9	10	11														
*7201			3	4					11													22		
*7301					5				11						16									
*7401			3															19						
*7501					5		8		11						16									
*7601				4			7								16	17	18	19	20	21				
*7701							8	9	11						16									
*7801	1	2													16	17	18	19	20	21				
*7901	1	2													16	17			20					
*8001							8	9	11						16									
*8101							8		10	11	12										22			
*8201							8	9	11						16									
*8301								9	11						16									
*8401					5		8																24	
*8501		2	3	4													17							
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.: **47G**

Lot-specific Information

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	205	165	210					
265			260				195	205				255			180		230	185	190	185	190		255	280				
																		285		245	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					
												?			?			?				?						
												?			?			?			45		?					
												?			?			?					?					
												?			?			?					?					
							31					?	38		?			?					?					
											36	37			?			?					?					
			28	29		31						?			40			?					?					
			28	29		31						38			?			?					47					
							31					?			?			?					?					
												?		39	?			?					?					
25			28	29		31						?	38		?			?				?						
												?		39	?			?				?						
												?			?			?			46		?					
												?			?			?				?	48					
											36	?	38		?			43				?						
25							31					?	38		?			?				?						
	26	27										?			?			?	44			?						
												?			?			?				?						
			28									?			?			?				?						
										34		?	38		?			?				?						
												?			?			?				?						
							31					?			?			?				?						
												?			?			?				?						
25			27									?			?			?				?						
												?			?			?				?						
												?	38		?			?				?						
												?		39	?			?				?						
												?		39	?			?				?						
											35	37			?			?				?						
												?			?			?				?						
												?			?			?				?						
							30				34	?			?			?				?						
												?			?			41				?						
												?			?			?				?						
											32	?			?			?				?						
			28				31					?			?			?				?						
												?			?			?				?						
			27									?			?			?			45		?					
											33	?			?			?				?						
												?			?			42	?			?						
												?			?			?			46		?					
												?			?			?				?						
							31					?			?			?				?						
			28				31					?			?			?					48					
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.				



Lot No.: **47G**

Lot-specific Information

Length of spec. PCR product	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*8601									9	11	12						18							
*8701		2							9								17	19						
*8801	1										12						17	18	20	21				
*8901		2	3	4																				
*9001	1	2	3	4	5		7																	
*9101									9						16		17	18	19					
*9201	1	2		4			7								16		17	18	19	20	21			
*9301									9		12						17							
*9401							8		9	11														
*9501									9	10				15										
*9601			3	4			8														22			
*9701							8		9				13	14								23	24	
*9801									9						16		17	18						
*9901			3	4			8			11				15							22			
DPB1 allele ⁴																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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, 34, 36 to 39, 41 and 46 to 48 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

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

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

⁴The sequence of the DPB1*02011 allele has been shown to be identical to DPB1*02012.

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*3101.

The sequence of the DPB1*4301 allele has been shown to be identical to DPB1*2801.

⁵Matching sequences within the 1st intron.

⁶Primer mix 24: Specific PCR fragment of 195 bp in the DPB1*0203 allele. Specific PCR fragment of 265 bp in the DPB1*0302, 0403, 050101, 050102, 0801, 0802, 1601, 1901, 2201, 3101, 3801, 5701, 6301, 6501, 6801, 8401 and 9701 alleles.

Primer mix 25: Specific PCR fragment of 190 bp in the DPB1*050101, 050102, 1702, 2101, 2201, 3601, 3801, 4401, 5801, 6301 and 9701 alleles. Specific PCR fragment of 265 bp in the DPB1*7001 allele.



Lot No.: **47G**

Lot-specific Information

190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	110	120	205	165	210	Length of spec. PCR product	
265			260				195	205				255			180		230	185	190	185	190		255	280	
																		285		245	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.	
	26	27	28	29	30							?			?			?		45		?		*8601	
					31							?	38		?			?					?	*8701	
	26		28												?			?						*8801	
					31							?			?			?					?	*8901	
					31							?			?			?					?	*9001	
	27				30				34			?			?			?					?	*9101	
												?			?			?					?	*9201	
			28			31						?			?			?					?	*9301	
												?			?	41		?					?	*9401	
												?	38	39	?			?					?	*9501	
												?			?			?		45	46		?	*9601	
25					31							?			?		42	?					?	*9701	
		27	28		30							?			?			?					?	*9801	
												?			?			?					?	*9901	
																								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 28: Specific PCR fragment of 200 bp in the DPB1*0901, 0902, 1001, 1102, 1301, 1302, 1602, 1701, 2002, 2101, 260101, 260102, 2701, 3001, 350101, 350102, 3601, 3701, 5401, 5501, 5801, 6601, 7901, 8501, 8601, 8801, 9301 and 9801 alleles. Specific PCR fragment of 260 bp in the DPB1*2202 allele.

Primer mix 32: Specific PCR fragment of 75 bp in the DPB1*7801 allele. Specific PCR fragment of 195 bp in the DBB1*110101-110102 alleles.

Primer mix 33: Specific PCR fragment of 140 bp in the DPB1*0902, 1301, 1302, 2002, 3301, 8101 allele. Specific PCR fragment of 205 bp in the DBB1*2602 allele.

Primer mix 37: Specific PCR fragment of 185 bp in the DPB1*1501, 2801, 4001, 5301 and 7401 alleles. Specific PCR fragment of 255 bp in the DPB1*0402 allele. The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 37 matching the DPB1*0402 sequence motif in the 3rd exon may amplify other DPB1 alleles.

Primer mix 40: Specific PCR fragment of 95 bp in the DPB1*0902 allele. Specific PCR fragment of 180 bp in the DPB1*3001 and 5401 alleles. The 1st exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 40 matching the DPB1*0902 sequence motif in the 1st exon may amplify other DPB1 alleles.

Primer mix 41: Specific PCR fragment of 75 bp in the DPB1*7701 allele. Specific PCR fragment of 230 bp in the DPB1*3101, 3401 and 9401 alleles.

Primer mix 42: Specific PCR fragment of 140 bp in the DPB1*9701 allele. Specific PCR fragment of 185 bp in the DPB1*3201 allele. Specific PCR fragment of 285 bp in the DPB1*8201 allele.

Primer mix 43: Specific PCR fragment of 65 bp in the DPB1*050101, 050102, 0502 and 1901 alleles. Specific PCR fragment of 190 bp in the DPB1*3401 and 6201 alleles. The 4th exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 43 matching the DPB1*050101, 050102, 0502 and 1901 sequence motif in the 4th exon may amplify other DPB1 alleles.

Primer mix 44: Specific PCR fragment of 185 bp in the DPB1*1402 allele. Specific PCR fragment of 245 in the DPB1*3801 allele. Specific PCR fragment of 270 bp in the DPB1*6401N allele. Specific PCR fragment of 110 and 185 bp in the DPB1* 2102 allele. Specific PCR fragment of 185 and 270 bp in the DPB1* 2302 allele.

Lot No.: 47G

Lot-specific Information

Primer mix 45: Specific PCR fragment of 120 bp in the DPB1*1002, 4601, 8001 and 8601 alleles. Specific PCR fragment of 190 bp in the DPB1*2002, 3901, 4901 and 9601 alleles. Specific PCR fragment of 245 bp in the DPB1*1802 allele.

Primer mix 47: Specific PCR fragment of 165 bp in the DPB1*1702 and 4401 alleles. Specific PCR fragment of 255 bp in the DPB1*020102, 0202, 040101, 0602, 0802, 1701, 2301, 2402, 2602 and 2801 alleles. Specific PCR fragment of 165 and 255 bp in the DPB1*1701 allele.

The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 47 matching the DPB1*020102, 0202, 040101, 0602, 0802, 1701, 2301, 2402, 2602 and 2801 sequence motif in the 3rd exon may amplify other DPB1 alleles.

Primer mix 48: Specific PCR fragment of 210 bp in the DPB1*6101N allele. Specific PCR fragment of 280 bp in the DPB1*8501 allele.

'w', might be weakly amplified.

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

Lot No.: **47G**

Lot-specific Information

CELL LINE VALIDATION SHEET					DPB1 SSP kit																
					Well																
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Lot No.:					200965501	200737502	200737503	200853204	200737505	200965506	200737507	200737508	200737509	200737510	200737511	200965512	200737513	200737514	200965515	200737516	
IHWC cell line		DPB1																			
1	9001 SA	*0402			-	-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
2	9280 LK707	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
3	9011 E4181324	*0201	*0401		-	-	+	+	-	-	-	-	+	+	+	+	-	-	-	-	-
4	9275 GU373	*0402	*1701		-	-	-	-	-	-	-	-	+	+	-	+	+	-	-	-	+
5	9009 KAS011	*0401	*1401		-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	+
6	9353 SM	*0501			-	-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
7	9020 QBL	*0202			-	-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
8	9025 DEU	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
9	9026 YAR	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
10	9107 LKT3	*0501			-	-	-	-	-	-	-	-	+	+	-	-	+	+	-	-	-
11	9051 PITOUT	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
12	9052 DBB	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
13	9004 JESTHOM	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
14	9071 OLGA	*0301	*0402		+	+	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
15	9075 DKB	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
16	9037 SWEIG007	*0402			-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	+
17	9282 CTM3953540	*0101	*0201		+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-
18	9257 32367	*0402	*1801		-	+	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
19	9038 BM16	*0201			-	-	-	-	-	-	-	-	+	+	+	+	-	-	-	-	-
20	9059 SLE005	*0301			+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
21	9064 AMALA	*0402			-	-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
22	9056 KOSE	*0201	*1301		+	-	+	-	-	-	+	+	+	+	+	+	-	-	-	-	-
23	9124 IHL	*0201			-	-	-	-	-	-	-	-	+	+	+	+	-	-	-	-	-
24	9035 JBUSH	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
25	9049 IBW9	*0101			+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
27	9191 CH1007	*0301	*0902		+	+	+	-	-	+	+	-	-	-	-	-	-	-	-	-	+
28	9320 BEL5GB	*0201	*0401		-	-	+	+	-	-	-	-	+	+	+	+	-	-	-	-	-
29	9050 MOU	*0201			-	-	-	-	-	-	-	-	+	+	+	+	-	-	-	-	-
30	9021 RSH	*0101	*0402		+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	+
31	9019 DUCAF	*0202			-	-	-	-	-	-	-	-	+	+	-	-	+	+	+	-	-
32	9297 HAG	*0201	*0301		+	+	-	-	-	-	-	-	+	+	+	+	-	-	-	-	+
33	9098 MT14B	*0402			-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	+
34	9104 DHIF	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
35	9302 SSTO	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
36	9024 KT17	*0501			-	-	-	-	-	-	-	-	+	-	-	-	+	+	-	-	-
37	9065 HHKB	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
38	9099 LZL	*0402			-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	+
39	9315 CML	*0401	*1401		-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	+
40	9134 WHONP199	*0501			-	-	-	-	-	-	-	-	+	+	-	-	+	+	-	-	-
41	9055 H0301	*0501			-	-	-	-	-	-	-	-	+	-	-	-	+	+	-	-	-
42	9066 TAB089	*0202			-	-	-	-	-	-	-	-	+	+	-	-	+	+	+	-	-
43	9076 T7526	*0902			+	-	+	-	-	+	+	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*0401			-	-	+	+	-	-	-	-	+	-	-	+	-	-	-	-	-
45	9239 SHJO	*0301	*0402		+	+	-	-	-	-	-	-	+	-	+	-	-	-	-	-	+
46	9013 SCHU	*0402			-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	+
47	9045 TUBO	*0201	*0402		-	-	-	-	-	-	-	-	+	+	+	+	-	-	-	-	+
48	9303 TER-ND	*0201	*0401		-	-	+	+	-	-	-	-	+	+	+	+	-	-	-	-	-



Lot No.: **47G**

Lot-specific Information

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
				200737517	200737518	200737519	200737520	200737521	200737522	200737523	200737524	200737525	200965526	200737527	200965528	200737529	200737530	200737531	200737532
	IHWC cell line	DPB1																	
1	9001 SA	*0402		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	9280 LK707	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
3	9011 E4181324	*0201	*0401	-	-	-	-	-	+	-	-	-	-	-	-	-	-		
4	9275 GU373	*0402	*1701	+	+	-	-	-	-	-	-	-	+	+	+	+	-		
5	9009 KAS011	*0401	*1401	+	+	+	+	+	+	-	-	-	-	-	+	-	-		
6	9353 SM	*0501		-	-	-	-	-	-	+	+	+	-	-	-	-	-		
7	9020 QBL	*0202		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
8	9025 DEU	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
9	9026 YAR	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
10	9107 LKT3	*0501		-	-	-	-	-	-	+	+	+	-	-	-	-	-		
11	9051 PITOUT	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
12	9052 DBB	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
13	9004 JESTHOM	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
14	9071 OLGA	*0301	*0402	+	+	+	+	+	-	-	-	-	-	-	-	-	-		
15	9075 DKB	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
16	9037 SWEIG007	*0402		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
17	9282 CTM3953540	*0101	*0201	-	-	-	-	-	-	-	-	-	-	-	-	-	+		
18	9257 32367	*0402	*1801	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
19	9038 BM16	*0201		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
20	9059 SLE005	*0301		+	+	+	+	+	-	-	-	-	-	-	-	-	-		
21	9064 AMALA	*0402		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
22	9056 KOSE	*0201	*1301	+	-	-	+	-	-	-	-	-	-	+	-	-	+		
23	9124 IHL	*0201		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
24	9035 JBUSH	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
25	9049 IBW9	*0101		-	-	-	-	-	-	-	-	-	-	-	-	-	+		
26	9285 WT49	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
27	9191 CH1007	*0301	*0902	+	+	+	+	+	-	-	-	-	-	+	-	-	+		
28	9320 BEL5GB	*0201	*0401	-	-	-	-	-	+	-	-	-	-	-	-	-	-		
29	9050 MOU	*0201		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
30	9021 RSH	*0101	*0402	-	-	-	-	-	-	-	-	-	-	-	-	-	+		
31	9019 DUCAF	*0202		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
32	9297 HAG	*0201	*0301	+	+	+	+	+	-	-	-	-	-	-	-	-	-		
33	9098 MT14B	*0402		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
34	9104 DHIF	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
35	9302 SSTO	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
36	9024 KT17	*0501		-	-	-	-	-	-	+	+	+	-	-	-	-	+		
37	9065 HHKB	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
38	9099 LZL	*0402		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
39	9315 CML	*0401	*1401	+	+	+	+	+	+	-	-	-	-	-	-	+	-		
40	9134 WHONP199	*0501		-	-	-	-	-	-	+	+	+	-	-	-	-	+		
41	9055 H0301	*0501		-	-	-	-	-	-	+	+	+	-	-	-	-	+		
42	9066 TAB089	*0202		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
43	9076 T7526	*0902		+	-	-	+	-	-	-	-	-	-	+	-	-	+		
44	9057 TEM	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-		
45	9239 SHJO	*0301	*0402	+	+	+	+	+	-	-	-	-	-	-	-	-	-		
46	9013 SCHU	*0402		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
47	9045 TUBO	*0201	*0402	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
48	9303 TER-ND	*0201	*0401	-	-	-	-	-	+	-	-	-	-	-	-	-	-		



Lot No.: **47G**

Lot-specific Information

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
					200965533	200737534	200737535	200737536	200737537	200965538	200737539	200965540	200737541	200737542	200737543	200965544	200737545	200737546	200853247	200965548
	IHWC cell line	DPB1																		
1	9001 SA	*0402			-	-	-	-	+	-	-	-	-	-	-	-	-			
2	9280 LK707	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
3	9011 E4181324	*0201	*0401		-	-	-	-	-	-	-	-	-	-	-	-	+			
4	9275 GU373	*0402	*1701		-	-	-	-	-	-	+	-	-	-	-	-	+			
5	9009 KAS011	*0401	*1401		-	+	-	-	-	-	-	-	-	-	-	-	+			
6	9353 SM	*0501			-	-	-	-	-	-	-	-	-	-	-	-	-			
7	9020 QBL	*0202			-	-	-	-	-	-	-	-	-	-	-	-	+			
8	9025 DEU	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
9	9026 YAR	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
10	9107 LKT3	*0501			-	-	-	-	-	-	-	-	+	-	-	-	-			
11	9051 PITOUT	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
12	9052 DBB	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
13	9004 JESTHOM	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
14	9071 OLGA	*0301	*0402		-	-	-	-	+	-	-	-	-	-	-	-	-			
15	9075 DKB	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
16	9037 SWEIG007	*0402			-	-	-	-	+	-	-	-	-	-	-	-	-			
17	9282 CTM3953540	*0101	*0201		-	-	-	-	-	-	-	-	-	-	-	-	+			
18	9257 32367	*0402	*1801		-	-	-	+	-	-	-	-	-	-	-	-	+			
19	9038 BM16	*0201			-	-	-	-	-	-	-	-	-	-	-	-	+			
20	9059 SLE005	*0301			-	-	-	-	-	-	-	-	-	-	-	-	-			
21	9064 AMALA	*0402			-	-	-	-	+	-	-	-	-	-	-	-	-			
22	9056 KOSE	*0201	*1301		+	-	-	-	-	-	-	-	-	-	-	-	+			
23	9124 IHL	*0201			-	-	-	-	-	-	-	-	-	-	-	-	+			
24	9035 JBUSH	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
25	9049 IBW9	*0101			-	-	-	-	-	-	-	-	-	-	-	-	-			
26	9285 WT49	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
27	9191 CH1007	*0301	*0902		+	-	-	-	-	-	+	-	-	+	-	-	-			
28	9320 BEL5GB	*0201	*0401		-	-	-	-	-	-	-	-	-	-	-	-	+			
29	9050 MOU	*0201			-	-	-	-	-	-	-	-	-	-	-	-	+			
30	9021 RSH	*0101	*0402		-	-	-	-	+	-	-	-	-	-	-	-	+			
31	9019 DUCAF	*0202			-	-	-	-	-	-	-	-	-	-	-	-	+			
32	9297 HAG	*0201	*0301		-	-	-	-	-	-	-	-	-	-	-	-	+			
33	9098 MT14B	*0402			-	-	-	-	+	-	-	-	-	-	-	-	-			
34	9104 DHIF	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
35	9302 SSTO	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
36	9024 KT17	*0501			-	-	-	-	-	-	-	-	-	-	-	-	-			
37	9065 HHKB	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
38	9099 LZL	*0402			-	-	-	-	+	-	-	-	-	-	-	-	-			
39	9315 CML	*0401	*1401		-	+	-	-	-	-	-	-	-	-	-	-	+			
40	9134 WHONP199	*0501			-	-	-	-	-	-	-	-	-	-	-	-	-			
41	9055 H0301	*0501			-	-	-	-	-	-	-	-	-	+	-	-	-			
42	9066 TAB089	*0202			-	-	-	-	-	-	-	-	-	-	-	-	+			
43	9076 T7526	*0902			+	-	-	-	-	-	+	-	-	-	-	-	-			
44	9057 TEM	*0401			-	-	-	-	-	-	-	-	-	-	-	-	+			
45	9239 SHJO	*0301	*0402		-	-	-	-	-	-	-	-	+	-	-	-	+			
46	9013 SCHU	*0402			-	-	-	-	+	-	-	-	-	-	-	-	-			
47	9045 TUBO	*0201	*0402		-	-	-	-	+	-	-	-	-	-	-	-	+			
48	9303 TER-ND	*0201	*0401		-	-	-	-	-	-	-	-	-	-	-	-	+			



Lot No.: **47G**

Lot-specific Information

CERTIFICATE OF ANALYSIS

Olerup SSP® DPB1 SSP

Product number: 101.311-24u/04u – without *Taq* pol.
 Lot number: 47G
 Expiry date: 2011-November-01
 Number of tests: 24 tests – Product No. 101.311-24u
 4 tests – Product No. 101.311-04u
 Number of wells per test: 48

Well specifications:

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

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 38, 41, 42, 44 and 46 were available. The primers in primer solution 38 were tested by separately adding one 5'-primers or one 3'-primer. 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, 25, 32, 33 and 38 one 5'-primer was not possible to test. In primer solutions 8, 24, 28 and 48 one 3'-primer was not possible to test. Additional primers in primer solutions 40, 43 and 47 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: 2009-November-18

Approved by:

Quality Control, Supervisor

Lot No.: **47G**

Lot-specific Information

Declaration of Conformity

Product name: *Olerup* SSP® DPB1
Product number: 101.311-24u/04u
Lot number: 47G

Intended use: DPB1 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Hasselstigen 1
SE-133 33 Saltsjöbaden, 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, ISO 17025:1999 and ISO 13485:2000, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex III.

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

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

Saltsjöbaden, Sweden
2009- November-18

Olle Olerup
Managing Director

Lot No.: **47G**

Lot-specific Information

Lot No.: **47G**

Lot-specific Information

Lot No.: **47G**

Lot-specific Information

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For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH**.